S.NO.	AUTHOR, TITLE, SOURCE, AUTHOR AFFILIATION, ABSTRACT	PMID / PMCID	INT/NAT
1.	<ul> <li>Aabidha, P. M., Cherian, A. G., Paul, E. and Helan, J.</li> <li>Maternal and fetal outcome in pre-eclampsia in a secondary care hospital in South India</li> <li><u>J Family Med Prim Care.</u> 2015 Apr-Jun;4(2):257-60. doi: 10.4103/2249-4863.154669.</li> <li>Address: Department of Obstetrics and Gynaecology, Christian Fellowship Hospital, Oddanchatram, Tamil Nadu, India.</li> <li>Department of Community Health, Christian Medical College, Vellore, Tamil Nadu, India.</li> <li>BACKGROUND: Hypertensive disorders in pregnancy are one of the common causes for perinatal and maternal morbidity and mortality in developing countries. Pre-eclampsia is a condition which typically occurs after 20 weeks of gestation and has high blood pressure as the main contributing factor. The aim was to study the effects of pre-eclampsia on the mother and the fetus in rural South Indian population. MATERIALS AND METHODS: This was a descriptive study conducted in a secondary level hospital in rural South India. A total of 1900 antenatal women were screened for pre-eclampsia during the period August 2010 to July 2011 to study the effects on the mother and fetus. RESULTS: Of the 1900 women screened 93 were detected with pre-eclampsia in the study. Among these, 46.23% were primigravida, 30.1% belonged to socio-economic class 4 and 48.8% were among those with BMI 26-30. The incidence of severe pre-eclampsia was higher in the unregistered women. The most common maternal complication was antepartum hemorrhage (13.9%) and the most common neonatal complication was prematurity (23.65%). CONCLUSIONS: Treating anemia and improving socioeconomic status will improve maternal and neonatal outcome in pre-eclampsia. Antenatal care and educating women on significance of symptoms will markedly improve perinatal morbidity and mortality. Prematurity, growth restriction and low birth weight are neonatal complications to be anticipated and dealt with when the mother has pre-eclampsia. A good neonatal intensive care unit will help improve</li> </ul>	PMID: 25949977 PMCID:PMC 4408711	NAT
2.	<ul> <li>Aaron S, Mani S, Prabhakar AT, Karthik K, Patil AK, Babu PS, Alexander M(1).</li> <li>Stuck with a drowsy patient, evoke the Percheron.</li> <li>Neurol India. 2015 Jul-Aug;63(4):542-7. doi: 10.4103/0028-3886.162045.</li> <li>Author information: <ul> <li>(1)Department of Neurological Sciences, Neurology Unit, Christian Medical College and Hospital, Vellore, Tamil Nadu, India.</li> </ul> </li> <li>BACKGROUND: Strokes caused by normal variants of the cerebral circulation can be difficult to diagnose, hence a high index of suspicion is needed. This case series discusses the clinical and radiological aspects of one such stroke caused by occlusion of the artery of Percheron (AOP). MATERIALS AND METHODS: Computerized discharge summaries, outpatient records and imaging from picture archiving and communication system (PACS, GE), of patients with AOP infarction over a period of 12-years (2002-2014) were identified and their clinical and radiological features analyzed. RESULTS: Of 3589 strokes (both ischemic and hemorrhagic), 17 (0.47%) were due to AOP infarction. Their mean age was 50 years (range: 31-72 years). Disorders of consciousness (94%) were the most common presenting symptoms followed by gaze (53%) and memory impairment (24%). At follow-up, 2/17 (12%) patients developed extrapyramidal features. All patients had bilateral paramedian thalamic infarcts on magnetic resonance imaging (MRI). Associated anterior thalamic (5/17; 30%) and mid brain (10/17; 59%) infarcts were also seen. CT scan done</li> </ul>	PMID: 26238889 WOS:000359402000017	NAT

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	in 11/17 patients prior to the MRI picked up only 6/11 (55%) of these infarcts. The most common etiological factors detected using the Trial of Org 10172 in Acute Stroke Treatment (TOAST) criteria were cardio embolic (8/17; 47%) followed by small vessel occlusion (7/17; 41%). Mortality occurred in 2/17 (12%) patients. At 6 months, a modified Rankin score of 2 or less was seen in 8/17 (47%) patients. CONCLUSIONS: Artery of Percheron infarcts should be considered in the differential diagnosis of patients presenting with sudden alterations in consciousness. MRI should be the investigation of choice. An embolic etiology should be actively looked for.		
3.	Abhijnhan A, Gopalakrishnan R, Kuruvilla A. Psychosis in a patient with Immunoglobulin G4 (IgG4) related disease. Indian Journal of Psychiatry. 2015;57(5):S132-S.	WOS:000366494300461	NAT
4.	<ul> <li>Abhilash, K. P., Gunasekaran, K., Mitra, S., Patole, S., Sathyendra, S., Jasmine, S. and Varghese, G. M. Scrub typhus meningitis: An under-recognized cause of aseptic meningitis in India</li> <li>Neurol India; 2015, 63 (2): 209-14</li> <li>BACKGROUND: Central nervous system (CNS) involvement in scrub typhus is seen in up to a quarter of patients. However, the literature on cerebrospinal fluid (CSF) analysis and outcome in meningitis/meningo-encephalitis due to scrub typhus is scant. MATERIALS AND METHODS: This retrospective study included patients who were admitted to a medical college hospital with scrub typhus meningitis/meningo-encephalitis between 2005 and 2011. The clinical and laboratory profile, details of CSF analysis and outcome were documented. RESULTS: The study included 189 patients with meningitis/meningo-encephalitis due to scrub typhus. The mean age of the patients was 41 +/- 4 years. The mean duration of fever before presentation was 9.4 +/- 3 days. The common presenting complaints were headache (64.2%), nausea/vomiting (60%), altered sensorium (53.7%) and seizures (22.1%). The presence of an eschar was documented in 27.5% of the patients. The mean CSF white blood count was 80 cells/cu mm (range: 5-740). There was a clear lymphocyte predominance (mean 87.6%). The mean CSF protein level was 105 mg% (range: 13-640). The mean CSF sugar level was 63.9 mg% (range 25-350), and was less than 40 mg% in 11.1% of the cases. The case fatality rate was 5.8% (11/189). Univariate analysis showed the presence of an eschar (15.4% vs</li> </ul>	PMID: 25947985 WOS:000354387200015	NAT
	<ul> <li>2.2%; Odds Ratio [OR]: 8.1) and altered sensorium (9.8% vs 1.1%; OR: 9.2) to be significant predictors of mortality. CONCLUSIONS: In endemic regions, scrub typhus should be considered in the differential diagnosis of aseptic meningitis. Modest elevation of cells in the CSF with lymphocytic pleocytosis and multi-organ involvement may indicate scrub typhus meningitis/meningo-encephalitis.</li> <li>Address: Department of General Medicine, Christian Medical College, Vellore, Tamil Nadu, India.</li> </ul>		
5.	Abhilash, K. P., Mitra, S., Arul, J. J., Raj, P. M., Balaji, V., Kannangai, R., Thomas, S. A. and Abraham, O. C. Changing paradigm of cryptococcal meningitis: an eight-year experience from a tertiary hospital in South India	PMID: 25559998 WOS:000352086300005	NAT
	Indian J Med Microbiol; 2015, 33 (1): 25-9		
	BACKGROUND: Cryptococcal meningitis (CM) is a common opportunistic fungal infection causing sub-acute meningitis with the potential for complications and significant mortality. We conducted this study to describe the difference in presentation and outcome between HIV-infected and HIV-uninfected patients. MATERIALS AND METHODS: Patients admitted to a tertiary care centre between 2005 and 2013 with confirmed CM were included in the analysis. Details of the clinical presentation, laboratory findings, treatment details, risk factors for infection and outcome were documented and analysed. RESULTS: During the study period, 102 (87.2%)		

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	cases of CM occurred among HIV infected individuals, whereas 15 (12.8%) occurred among HIV-uninfected patients. HIV-infected patients with CM were younger compared with HIV-uninfected patients (38.2 +/- 8.5 years vs. 45 +/- 11.5 years; P = 0.07). The median duration of symptoms prior to presentation was shorter in the HIV-infected group (20 +/- 32 vs. 30 +/- 42; P = 0.03). There was no difference between the cerebrospinal fluid (CSF) lymphocyte counts, CSF protein counts, and CSF sugar levels in both the groups. The diagnostic yield of Cryptococcus was similar with CSF India ink smear (89% vs. 87%), CSF fungal culture (95% vs. 87%), and blood culture (100% vs. 75%) in both the groups. Case fatality rate in the HIV-infected group was 30.6%, whereas there were no deaths in the HIV-uninfected group. CONCLUSION: HIV-infected patients with CM have a worse outcome compared to HIV-uninfected patients. The overall trend over 3 decades shows increasingly successful rates of treatment and hence early diagnosis and treatment are of paramount importance.		
6.	Abigail Ruth Gojer, Venkateshwaran Rajaram Autoimmune encephalitis presenting with behavioral changes, seizures, dystonia and regression in a pediatric patient A case report Indian J Psychiatry. 2015 Jan; 57(Suppl 1): S113–S159.	-	NAT
	CMC Vellore, India E-mails: <u>gmail.com@grliagiba</u> , <u>gmail.com@500narawrd</u> Keyword: Anti-basal ganglia antibodies, neuropsychiatry, autoimmune encephalitis Introduction: Anti-basal ganglia antibodies (ABGA) have been associated with movement disorders and psychiatric disturbances in children. The syndrome associated with positive antibodies is a relatively new one and particularly relevant to psychiatrists, because most patients are initially seen by psychiatric services. With a recognizable clinical picture, availability of a diagnostic test in the form of detecting the presence of auto antibodies targeting the basal ganglia due to molecular mimicry, as well as good improvement with immunotherapy, this condition needs to be explored more. Case Report: We have been identifying and treating this disorder quite regularly at Christian Medical College. In this poster, we would like to present a pediatric patient who presented to our Psychiatry unit with multiple psychiatric manifestations following new onset seizures and right sided dystonia. He was referred to our Neurology colleagues and responded well to immunomodulation after being diagnosed with ABGA encephalitis, the other possible aetiologies being ruled out. Discussion: The nature and function of ABGA and the patho-physiology involved in the development of this particular encephalitis is discussed. The possibilities regarding further research in this field, as well as the fine line between psychiatry and neurology is also reviewed. The need for being aware of such modifiable conditions and the implications of the same in psychiatric clinical practice is also emphasized.	DMID 2451021	
7.	Abiramalatha T(1), Kumar M(1), Shabeer MP(1). Pleural effusion caused by a malpositioned umbilical venous catheter in a Neonate BMJ Case Rep. 2015 Oct 30;2015. pii: bcr2015212705. doi: 10.1136/bcr- 2015-212705. Author information: (1)Department of Neonatology, Christian Medical College, Vellore, Tamil Nadu, India.	PMID: 2651821	INT

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	Umbilical venous catheterisation (UVC) insertion is a common procedure performed in most neonatal units. We report a case of a neonate who developed pleural andpericardial effusions and ascites due to a malpositioned UVC causing diaphragmatic perforation. Timely diagnosis using bedside sonography and prompt removal of the catheter resulted in resolution of the effusions without undue complications. 2015 BMJ Publishing Group Ltd.		
8.	<ul> <li>Abraham A(1), Varatharajan S(1), Karathedath S(1), Philip C(1), Lakshmi KM(1),Jayavelu AK(1), Mohanan E(1), Janet NB(1), Srivastava VM(2), Shaji RV(1), ZhangW(3), Abraham A(1), Viswabandya A(1), George B(1), Chandy M(1), Srivastava A(1), Mathews V(1), Balasubramanian P(1).</li> <li>RNA expression of genes involved in cytarabine metabolism and transport predicts cytarabine response in acute myeloid leukemia.</li> <li>Pharmacogenomics. 2015 Jul;16(8):877-90. doi: 10.2217/pgs.15.44. Epub 2015 Jun17.</li> <li>Author information: <ul> <li>(1)Department of Haematology, Christian Medical College, Vellore, India.</li> <li>(2)Cytogenetics Unit, Christian Medical College, Vellore, India.</li> <li>(2)Cytogenetics Unit, Christian Medical College, Vellore, India.</li> <li>(3)Department of Faematology, Christian Medical College, Vellore, India.</li> <li>(2)Cytogenetics Unit, Christian Medical College, Vellore, India.</li> <li>(3)Department of Preventive Medicine, Northwestern University, Chicago, IL, USA.</li> </ul> BACKGROUND: Variation in terms of outcome and toxic side effects of treatment exists among acute myeloid leukemia (AML) patients on chemotherapy with cytarabine (Ara-C) and daunorubicin (Dnr). Candidate Ara-C metabolizing gene expression in primary AML cells is proposed to account for this variation. METHODS: Ex vivo Ara-C sensitivity was determined in primary AML samples using MTT assay. mRNA expression of candidate Ara-C metabolizing genes were evaluated by RQPCR analysis. Global gene expression profiling was carried out for identifying differentially expressed genes between exvivo Ara-C sensitive and resistant samples. RESULTS: Wide interindividual variations in ex vivo Ara-C cytotoxicity were observed among samples. RESULTS: Wide interindividual variations in ex vivo Ara-C cytotoxicity were observed among samples. Resputers with AML and were stratified into sensitive, intermediately sensitive and resistant, based on IC50 values obtained by MTT assay. RNA expression of deoxycytidine kinase (DCK), h</li></ul>	PMID: 26083014 WOS:000357864900009	INT
	death (p = 0.002; RR: 4.35 [95% CI: 1.69-11.22]). Global gene expression profiling undertaken to find out additional contributors of Ara-C resistance identified many apoptosis as well as metabolic pathway genes to be differentially expressed between Ara-C resistant and sensitive samples. CONCLUSION: This study highlights the importance of evaluating expression ofcandidate Ara-C metabolizing genes in predicting ex vivo drug response as well astreatment outcome. RI could be a predictor of ex vivo Ara-C response irrespectiveof cytogenetic and molecular risk groups and a potential biomarker for AMLtreatment outcome and toxicity. Original submitted 22 December 2014; Revisionsubmitted 9 April 2015.		
9.	Abraham A, Sindhuvi E, Korula A, Fouzia N, Srivastava A, George B, et al. Donor Lymphocyte Infusion in Patients with Thalassemia Major Who Have Mixed Chimerism Following Allogeneic Stem Cell Transplant. Blood. 2015;126(23).	WOS:000368020100130	INT

	Author Address: 1Department of Haematology, Christian Medical College, Vellore, India 2Department of Hematology, Christian Medical College, Vellore,India, Vellore, India		
10.	Abraham AP, Srinivas SB, Murthy M, Babu KS, Chacko AG(1). Surface electromyography activity in the upper limbs of patients following surgery for compressive cervical myelopathy.	PMID: 26588624 WOS:000365695700018	NAT
	Neurol India. 2015 Nov-Dec;63(6):903-10.		
	(1)Divisions of Neurosurgery, Department of Neurological Sciences, Christian Medical College, Vellore, Tamil Nadu, India.		
	BACKGROUND: Surface electromyography (EMG) is a noninvasive, accurate method to measure electrical activity produced in muscles. AIM: To assess the improvement of spasticity after decompressive surgery for compressive myelopathy using surface EMG. SETTING AND DESIGN: Neurophysiology laboratory of a tertiary care center. Before-after trial. Both EMG and Modified Modified Ashworth Scale (MMAS) were utilized. MATERIALS AND METHODS: Thirty-one nonconsecutive patients (28 males; age 25-72 years) with compressive cervical myelopathy and spasticity (MMAS score $\geq$ 1) were recruited. Patients with lower motor neuron findings, Nurick grade 5, and those with joint deformities, contractures, or thrombophlebitis of the upper limbs were excluded. EMG activity was measured from the pronator teres and biceps brachil for 31 age-related controls (25 males) as well as for the patients both pre- and post-operatively. STATISTICAL ANALYSIS: Student's t-test for comparison of continuous variables and Pearson correlation co-efficient for assessing the significance of associations. RESULTS: EMG recording done 1-week postoperatively showed a reduction in baseline activity in the pronators and supinators by 21% and 36%, respectively. There was a decrease in co-activation of the pronators during active supination by almost 62% and of the supinators during supination by approximately 23%, and the supinators during pronation by 35% (P < 0.05). EMG activity was significantly reduced in the pronators during supination in all patients, including those in whom the MMAS scores remained the same postoperatively. CONCLUSION: Surface EMG is an objective tool to detect improvement in spasticity following decompressive surgery for compressive cervical myelopathy even in thosepatients who showed no improvement on the MMAS.		
11.	Abraham, A., Devasia, A. J., Varatharajan, S., Karathedath, S., Balasubramanian, P. and Mathews, V. Effect of cytosine arabinoside metabolizing enzyme expression on drug toxicity in acute myeloid leukemia Ann Hematol. 2015 May;94(5):883-5 Address: Department of Haematology, Christian Medical College, Vellore, 632004, India.	PMID: 25391240 WOS:000351836900023	INT
12.	Abrol, N. and Kekre, N. S. Focused ultrasound guided relocation of kidney stones Indian J Urol; 2015, 31 (1): 28-32 PURPOSE: Complete removal of all fragments is the goal of any intervention for urinary stones. This is more important in lower pole stones where gravity and spatial orientation of lower pole infundibulum may hinder spontaneous passage of fragments. Various adjuvant therapies (inversion, diuresis, percussion, oral citrate, etc.) are described to enhance stone-free rate but are not widely accepted. Focused ultrasound-guided	PMID: 25624572 PMCID:PMC4300567	NAT

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	relocation of fragments is a recently described technique aimed at improving results of intervention for stone disease. Purpose of this review is to discuss development of this technology and its potential clinical applications. MATERIALS AND METHODS: Pubmed search was made using key words "Focused ultrasound" and "kidney stone". All English language articles were reviewed by title. Relevant studies describing development and application of focused ultrasound in renal stones were selected for review. RESULTS: Focused ultrasound has proven its efficacy in successfully relocating up to 8 mm stone fragments in vitro and in pigs. Relocation is independent of stone composition. The latest model allows imaging and therapy with a single handheld probe facilitating its use by single operator. The acoustic energy delivered by the new prototype is even less than that used for extracorporeal shock wave lithotripsy. Therapeutic exposure has not caused thermal injury in pig kidneys. CONCLUSION: Focused ultrasound-guided relocation of stones is feasible. Though it is safe in application in pigs, technology is awaiting approval for clinical testing in human beings. This technology has many potential clinical applications in the management of stone disease. Address: Department of Urology, Christian Medical College, Vellore, India.		
13.	Abrol, N., Harshe, G. and Devasia, A. Egg in a cup Indian J Urol; 2015, 31 (1): 77-8 A case of medullary type papillary necrosis diagnosed on nephrostogram is presented showing characteristic egg-in-cup appearance. Address: Department of Urology, Christian Medical College, Vellore, Tamil Nadu, India. Department of Radiodiagnosis, Christian Medical College, Vellore, Tamil Nadu, India.	PMID: 25624584 4300580: 4300580	NAT
14.	Abrol, N., Panda, A., Kekre, N. S. and Devasia, A. Nanobacteria in the pathogenesis of urolithiasis: Myth or reality? Indian J Urol; 2015, 31 (1): 3-7 Stone formation in the urinary tract is a common phenomenon with associated morbidity. The exact physicochemical factors responsible for stone formation are not clearly known. Over the past decade considerable interest has been generated in defining the role of nanobacteria in urinary stone formation. A review of the available literature has been carried out to give insights into their nature and outline their role in stone formation. The two aspects of nanobacteria that need to be considered include its biological nature and the other merely as mineralo-protein complexes. Though the current literature favors the concept of mineralo-protein particles, further research is needed to clearly define their nature. Whether living or nonliving, these apatite forming nanoparticles appear to play role in kidney stone formation. Address: Department of Urology, Christian Medical College, Vellore, Tamil Nadu, India.	PMID: 25624568 4300568: 4300568	NAT
15.	Agarwal MB; Malhotra H; Chakrabarti P; Varma N; Mathews V; Bhattacharyya J; Seth T; Gayathri K; Menon H; Subramanian PG; Sharma A; Bhattacharyya M; Mehta J; Vaid AK; Shah S; Aggarwal S; Gogoi PK; Nair R; Agarwal U; Varma S; Prasad SV; Manipadam MT Myeloproliferative neoplasms working group consensus recommendations for diagnosis and management of primary myelofibrosis, polycythemia vera, and essential thrombocythemia. <u>Indian Journal of Medical and Pediatric Oncology</u> . 2015 Jan-Mar; 36(1): 3-16 Department of Hematology, Bombay Hospital Institute of Medical Sciences, Mumbai, Division of Medical Oncology, RK Birla Cancer Center, SMS Medical College Department of Hematology, NRS Medical College, Kolkata, West Bengal, India. Department of Hematology and Pathology, Postgraduate Institute of Medical Department of Hematology, Christian Medical College, Vellore, Tamil Nadu, India. Department of Clinical Hematology, Guwahati Medical College and Hospital, Assam, Department of Hematology, All IndiaInstitute of Medical Sciences, Delhi Department of Hematopathology, Lifeline Tapadia Diagnostic Centre, Hyderabad, Department of Medical Oncology, Tata Memorial Hospital, Mumbai, Maharashtra, Department of Hematology Laboratory, Tata Memorial Hospital, Mumbai, Hematology and Center for Stem Cell	PMID: 25810569 PMCID:PMC4363847	NAT

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	Transplantation and Research, Army Research Institute of Hematology and Transfusion Medicine, Medical College, Kolkata, West Centre of Excellence in Histopathology, SRL Diagnostics, Mumbai, Maharashtra, Cancer Institute-Division of Medical Oncology and Haemotology, Medanta-The Department of Medical Oncology, Gujarat Cancer and Research Institute, Ahmedabad, Department of Medical Oncology, Sir Ganga Ram Hospital, New Delhi, India. East India Hematological Centre, Rajgarh Road, Guwahati, Assam, India. Department of Clinical Hematology, Tata Medical Centre, Kolkata, West Bengal, Ashirwad Hematology Centre, Dadar, Mumbai, Maharashtra, India. Department of Pathology, Christian Medical College, Vellore, Tamil Nadu, India. Division of Medical Oncology, Apollo Cancer Hospitals, Hyderabad, Telangana, Department of Internal Medicine, Postgraduate Institute of Medical Education and Research, Chandigarh, India. ABSTRACT: According to the 2008 revision of the World Health Organization (WHO) classification of myeloid malignancies, philadelphia chromosome (Ph)-negative myeloproliferative neoplasms (MPNs) include clonal, hematologic disorders such as polycythemia vera,primary myelofibrosis, and essential thrombocythemia.Recent years have witnessed major advances in the understanding of the molecular pathophysiology of these rare subgroups of chronic, myeloproliferative disorders. Identification of somatic mutations ingenes associated with pathogenesis and evolution of these myeloproliferative conditions (Janus Kinase 2; myeloproliferative leukemia virus gene; calreticulin) led to substantial changes in the international guidelines for diagnosis and treatment of Ph-negative MPN during the last few years. The MPN-Working Group (MPN-WG), a panel of hematologists with expertise in MPN diagnosis and treatment from various parts of India, examined applicability of this latest clinical and scientific evidence in the contextof hematology practice in India.		
16.	Agarwala MK(1), George R(1), Sudarsanam TD(2), Chacko RT(3), Thomas M(4), Nair S(4). Clinical course of disseminated Kaposi sarcoma in a HIV and hepatitis B co-infected heterosexual male. Indian Dermatol Online J. 2015 Jul-Aug;6(4):280-3. doi: 10.4103/2229-5178.160271. Author information: (1)Department of Dermatology, Christian Medical College and Hospital, Vellore, Tamil Nadu, India. (2)Department of Medicine, Christian Medical College and Hospital, Vellore, Tamil Nadu, India. (3)Department of Medical Oncology, Christian Medical College and Hospital, Vellore, Tamil Nadu, India. (4)Department of Pathology, Christian Medical College and Hospital, Vellore, Tamil Nadu, India. AIDS associated Kaposi sarcoma (AIDS-KS) was first reported from India in 1993. Since then only 16 cases have been reported. Three of them had proven Human Herpesvirus 8 (HHV-8) infection. We report a case of disseminated KS in a heterosexual male from India with HIV, hepatitis B and HHV-8 infection. He wasgiven six cycles of chemotherapy with liposomal doxorubicin over three months to which he showed a good response. The case highlights the clinical course andmanagement of a HHV-8 positive disseminated KS in a patient co-infected withHepatitis B and HIV.	PMC4513411, 26225336	NAT
17.	Agrawal P(1), George R(1), Thomas M(2), Has C(3), Pas H(4), Schmidt E(5),Leverkus M(6). A childhood subepidermal autoimmune bullous disease resembling mechanobullousepidermolysis bullosa acquisita. Br J Dermatol. 2015 Sep;173(3):871-4. doi: 10.1111/bjd.13833. Epub 2015 Jul 26.	PMID: 25865032 WOS:000362176800052	INT

	Author information: (1)Department of Dermatology, Venereology and Leprosy, Christian Medical College and Hospital, Vellore, 632004, India. (2)Department of Pathology, Christian Medical College and Hospital, Vellore, 632004, India. (3)Department of Dermatology, University of Freiburg, Freiburg, Germany. (4)Department of Dermatology, University Medical Centre Groningen, Groningen, the Netherlands. (5)Department of Dermatology, University Hospital Schleswig-Holstein, Campus Lübeck, Ratzeburger Allee 160, Lübeck, 23538, Germany. (6)Section of Molecular Dermatology, Department of Dermatology, Venereology and Allergology, University Hospital Mannheim, University of Heidelberg, Theodor-Kutzer-Ufer 1-3, Mannheim,68167, Germany.		
18.	<ul> <li>Ahadian S(1), Sadeghian RB(1), Salehi S(1), Ostrovidov S(1), Bae H(2), RamalingamM(1,)(3), Khademhosseini A(1,)(2,)(4,)(5,)(6,)(7).</li> <li>Bioconjugated Hydrogels for Tissue Engineering and Regenerative Medicine.</li> <li>Bioconjug Chem. 2015 Oct 21;26(10):1984-2001. doi: 10.1021/acs.bioconjchem.5b00360. Epub 2015 Sep 21.</li> <li>Author information:</li> <li>(1)WPI-Advanced Institute for Materials Research, Tohoku University , Sendai 980-8577, Japan. (2)College of Animal Bioscience and Technology, Department ofBioindustrial Technologies, Konkuk University , Hwayang-dong, Kwangjin-gu, Seoul 143-701, Republic of Korea. (3)Centre for Stem Cell Research, Institute for Stem Cell Biology and Regenerative Medicine, Christian Medical College Campus ,Vellore 632002, India. (4)Department of Medicine, Center for BiomedicalEngineering, Brigham and Women's Hospital, Harvard Medical School , Cambridge,Massachusetts 02139, United States. (5)Harvard-MIT Division of Health Sciencesand Technology, Massachusetts Institute of Technology , Cambridge, Massachusetts 02139, United States. (6)Wyss Institute for Biologically Inspired Engineering, Brigham and Women's Hospital, 1559, SaudiArabia.</li> <li>Hydrogels are hydrophilic polymer networks with high water content, which have played an important role as scaffolds for cells, as carriers for various biomolecules (e.g., drugs, genes, and soluble factors), and as injectable biomaterials in tissue engineering (TE) and regenerative medicine. Bioconjugation is an approach for improving the performance of hydrogels using cell-responsive components, such as proteins and peptides, which have high affinity to regulate cellular behaviors and tissue morphogenesis. However, the current knowledge on the role of those bioconjugated moieties in controlling cellular functions and tissue morphogenesis. And parties are limited in the context of TE and organogenesis. Moreover, micro- and nanofabrication techniques have been usedto manipulate bioconjugated hydrogels for regulating cell behav</li></ul>	PMID: 26280942 WOS:000363438100002	INT
19.	Akinyemi, O. O., Martineau, T. and Tharyan, P. Is the practice of public or private sector doctors more evidence-based? A qualitative study from Vellore, India	PMID: 26057650	INT

Int J Evid Based Healthc; 2015, 13 (2): 66-76

AIM: The literature on the use of evidence-based practice is sparse, both in the public and private sectors in middle-and low-income countries, and the present literature shows that physician understanding and use of evidence-based practice is poor. The study aimed to explore the perception of medical practitioners in the private for-profit, private not-for-profit and government sectors in Vellore, India, on evidence-based practice in order to explain the factors affecting the use of evidence-based practice among the practitioners and to inform local policy and management decisions for improvement in quality of care. METHODS: Qualitative methodology was employed in the study. Sixteen in-depth and two key informant interviews were carried o with medical practitioners selected by purposive sampling in the private for-profit, private not-for-profit and government sectors. The interviews explored participants' knowledge of evidence-based practice and possible ways of improving the use of evidence-based practice and physicians in all the health sectors. Data from the in-depth and key informant interviews were analyzed with the NVIVO (version 8) software package using the framework approach. RESULTS: Although most practitioners interviewed have heard of evidence-based practice, knowledge about evidence-based practice seems inadequate. However, doctors in the private not-for-profit sector sor doctors in the private for-profit sector. Perceived factors affecting physician use of evidence-based practice include lack of personal time for literature appraisal as a result of high case load, weak regulatory system, pressure from patients, caregiver and pharmaceutical companies, as well as financial considerations. Opinions of the respondents are that use of evidence-based practice is mostly found among practitioners in the private not-for-profit health sector. CONCLUSION: Better training in evidence-based practice, improved regulatory system and greater collaboration between the public, private for-profit and private not-fo	e, ut I S 2		
<ul> <li>Psychiatry, Christian Medical College, Vellore, India.</li> <li>Albert, S., Daniel, S., Gouse, M. and Cherian, V. M. Case of pseudoaneurysm mimicking a soft tissue sarcoma: a diagnostic pitfall Malays J Med Sci; 2015, 22 (2): 61-4</li> </ul>	PMID: 26023297 4438094: 4438094	INT	_
Pseudoaneurysms represent a pulsating encapsulated hematoma in communication with the lumen of a ruptured vessel. We present a 33-year-old male with a pseudoaneurysm of the profunda femoris artery. At presentation and on further evaluation, he was diagnosed with a possible soft tissue sarcoma of the distal thigh. Catastrophic haemorrhage occurred at the time of a planned, elective open biopsy. This case report emphasises the importance of considering pseudoaneurysm as a crucial differential diagnosis in atypical swellings and scrutinising all suspected soft tissue tumours with a contrast study or a Doppler ultrasound. Address: Department of Orthopaedics, Unit 1, Christain Medical College, Vellore, 632004, Tamil Nadu, India			
<ul> <li>Alex, R., Manjunath, K., Srinivasan, R. and Basu, G.</li> <li>Purple urine bag syndrome: time for awareness</li> <li>J Family Med Prim Care; 2015, 4 (1): 130-1</li> <li>Purple urine bag syndrome occurs commonly in long-term catheterized patients causing significant stress for</li> </ul>	PMID: 25811004 4366985: 4366985 or	NAT	

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	patients, care takers, and health care providers. This may lead to unwarranted investigation as well as treatment when not identified early. Demographic changes in Indian population with increasing geriatric care make it a case to increase awareness of this condition among health care providers in primary and secondary care settings. Address: Department of Community Health, GI Sciences, Christian Medical College, Vellore, Tamil Nadu, India. Department of Nephrology, Christian Medical College, Vellore, Tamil Nadu, India.		
22.	Anand V(1), Nair S(1). An unusual toxicity with beta blocker and calcium channel blocker. Indian J Crit Care Med. 2015 Aug;19(8):496-8. doi: 10.4103/0972-5229.162475. Author information: (1)Department of Neurological Sciences, Christian Medical College, Vellore, TamilNadu,, India. The increasing use of beta and calcium channel blockers for management of cardiac comorbidities has led to more frequent complications in the postoperative period. Anesthetic interaction with these drugs can lead to delayed manifestations of features of toxicity, even when administered in therapeutic doses. We report a case with an uneventful intraoperative period but profound bradycardia and hypotension postoperatively, only relieved with high-dose insulin therapy.	PMC4548424, 26321814	NAT
23.	Anandan S(1), Damodaran S(2), Gopi R(2), Bakthavatchalam YD(2), VeeraraghavanB(3). Rapid Screening for Carbapenem Resistant Organisms: Current Results and FutureApproaches. J Clin Diagn Res. 2015 Sep;9(9):DM01-3. doi: 10.7860/JCDR/2015/14246.6530. Epub2015 Sep 1. Author information: (1)Associate Professor, Department of Clinical Microbiology, Christian Medical College , Vellore, Tamil Nadu, India . (2)Associate Research Officer, Department of Clinical Microbiology, Christian Medical College , Vellore, Tamil Nadu, India. (3)Professor and Head, Department of Clinical Microbiology, Christian MedicalCollege , Vellore, Tamil Nadu, India . Carbapenem producing Enterobacteriaceae (CPE) is a major public health threat. A total of 120 carbapenem resistant E.coli (n=32) and K.pneumoniae (n=88) from blood stream infections were screened for the presence of carbapenem resistant genes KPC, NDM, IMP, VIM, and OXA-48 like using both conventional multiplex PCR and Xpert(®) Carba-R test. Additionally 26 faces samples were directly screened with Xpert(®) Carba-R test. Of the tested isolates. 40% (n=48) of NDM and 39.2% (n=47/) of OXA-48-like were identified. Co-production of OXA-48 and NDM was seen in 15 (12.5%) isolates. In Xpert(®) Carba-R test, only NDM was identified in 55% (n=66) of tested isolates. Of the tested faces samples, 12 were identified as carbapenemase producers: nine with NDM, two with the co-production of NDM and VIM and in Klebsiella spp (n=1), NDM and KPC co-production was seen. However, Xpert(®) Carba-R test fails to detect OXA-48 like as compared with multiplex PCR. The sensitivity, specificity, PPV, NPV of Xpert(®) Carba-R test was 100%, 77%, 96% and 100% respectively. Incorporation of OXA-48 like specific sequence in the panel of Xpert(®) Carba-R test may improve its sensitivity and maximize the coverage of assay.	PMID: 26500909	NAT
24.	Anu Mary Oommen, Vinod Joseph Abraham, Kuryan George, V. Jacob Jose,		NAT
	Prevalence of coronary heart disease in rural and urban Vellore: A repeat cross-sectional survey,		

	Indian Heart Journal, Available online 11 January 2016, ISSN 0019-4832, http://dx.doi.org/10.1016/j.ihj.2015.11.015.		
	(http://www.sciencedirect.com/science/article/pii/S0019483215008470)		
	AUTHOR ADDRESS:		
	a Associate Professor, Department of Community Health, Christian Medical College, Vellore, Tamil Nadu 632002, India		
	b Department of Community Health, Christian Medical College, Vellore, Tamil Nadu 632002, India		
	Background: With the increase of cardiovascular risk factors in India, the prevalence of coronary heart disease (CHD) is also expected to rise. A cross-sectional study in 2010–2012 assessed the prevalence and risk factors for CHD in urban and rural Vellore, Tamil Nadu. The secondary objectives were to compare the current prevalence with the prevalence of CHD in the same areas in 1991–1994. Methods: A cross-sectional survey was carried out among adults aged 30–64 years to determine the prevalence of CHD (previously diagnosed disease, symptoms detected using Rose angina questionnaire, or ischemic changes on electrocardiography). The study used the WHO STEPS method in addition to the Rose angina questionnaire and resting electrocardiography and was conducted in nine clusters of a rural block in Vellore district and 48 wards of Vellore town. The results were compared with a similar study in the same area in 1991–1994. Results: The prevalence of CHD was 3.4% (95% CI: 1.6–5.2%) among rural men, 7.4% (95% CI: 4.7–10.1%) among rural women, 7.3% (95% CI: 5.7–8.9%) among rural men, 7.4% (95% CI: 11.2–15.6%) among rural women in 2010–2012. The age-adjusted prevalence in rural women tripled and in urban women doubled, with only a slight increase among males, between 1991–1994 and 2010–2012. Conclusions: The large increase in prevalence of CHD, among both pre- and post-menopausal females, suggests the need for further confirmatory studies and interventions for prevention in both rural and urban areas.		
	Keywords: Coronary heart disease; Rose angina; Electrocardiography; Prevalence	W00-000266404200527	NAT
25.	Arnab Mukherjee*, Rajesh Gopalakrishnan, Anju Kuruvilla Re-challenge of Clozapine in a patient with history of leucopenia with Clozapine	WOS:000366494300537	NAT
	Indian J Psychiatry. 2015 Jan; 57(Suppl 1): S113-S159.		
	http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4333352/		
	Christian Medical College, Vellore, India.		
	E-mails: <u>gmail.com@11hkumbanra</u> , <u>cmcvellore.ac.in@poghsejar</u> , <u>cmcvellore.ac.in@ujnas</u> Keyword: Clozapine, agranulocytosis, leucopenia, side-effects, clozapine re-challenge, treatment resistant psychosis, schizophrenia, India Background: Clozapine is generally reserved for patients with treatment resistant psychotic disorders. However its use is limited by its potential for rare but life threatening side effects like agranulocytosis. There are several reports where patients who have developed leucopenia or agranulocytosis due to Clozapine were re-challenged with clozapine. Case report: A 27-year-old single male, with schizophrenia was commenced on Clozapine in view of treatment resistant psychosis. He developed leucopenia three weeks after starting Clozapine after which		
	Clozapine was discontinued. Sequential trials (monotherapy and in combinations) of Amisulpride, Quetiapine and Risperidone did not benefit. Hence a re-challenge with Clozapine was considered in consultation with a haematologist. The frequency of monitoring white cell counts was increased to twice a week. He tolerated the re-challenge with significant reduction in psycholic symptoms and improvement in cosin accumptional		
	re-challenge with significant reduction in psychotic symptoms and improvement in socio-occupational		<u> </u>

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	functioning. Conclusion: Re-challenge with Clozapine is an option in patients with psychosis, with a past history of good response, and failure of alternate treatments. The common strategies used for rechallenge will be discussed.		
26.	<ul> <li>Arockiaraj J(1), Balaji G G(2), Vidyasagar B(1), Ashok A(1).</li> <li>Osteoblastoma of the coracoid process: an unusual location.</li> <li>BMJ Case Rep. 2015 Sep 29;2015. pii: bcr2015212070. doi: 10.1136/bcr-2015-212070.</li> <li>Author information: <ul> <li>(1)Department of Orthopaedics, Christian Medical College, Vellore, Tamil Nadu, India. (2)Department of Orthopaedics, Jawaharlal Institute of Postgraduate Medical Education and Research, Pondicherry, India.</li> <li>Bone tumours arising from the coracoid process of the scapula are very rare. We present a case of a 19-year-old man with left shoulder pain for 1 year, with associated infraclavicular swelling for 8 months.</li> <li>Examination revealed a tender, bony, hard swelling measuring 3×4 cm. Imaging revealed an expansile osteolytic lesion arising from the coracoid process with loss of corticomedullary differentiation. MRI showed altered signal in the adjacent soft tissues. The patient underwent en bloc resection of the lesion. Histology was suggestive of osteoblastoma. At the end of 2 years follow-up, the patient had no pain or recurrence of the lesion. We present this case for its rare location and have briefly discussed the difficulties in diagnosis of this condition.</li> </ul> </li> </ul>	PMID: 26420699	INT
27.	<ul> <li>Arora, N., Nair, S., Pai, R., Ahmed, R., Abraham, A., Viswabandya, A., George, B., Balasubramanian, P., Srivastava, A. and Mathews, V.</li> <li>V-raf murine sarcoma viral oncogene homolog B (BRAF) mutations in hairy cell leukaemia Indian J Pathol Microbiol; 2015, 58 (1): 62-5</li> <li>INTRODUCTION: Hairy cell leukemia (HCL) is a B-cell non-Hodgkin lymphoma with distinct clinical, morphological and immunophenotypic features; however, there are many other B-cell lymphomas, which closely mimic HCL. Accurate diagnosis of HCL is important as treatment with 2-chloro-2'-deoxyadenosine (cladribine) is associated with &gt;80% chance of complete cure. The recent description of BRAF p.V600E mutations in almost all HCL cases in various studies has not only improved the pathogenetic understanding of this entity but also increased the diagnostic accuracy of this disorder. AIM: The aim of the study was to standardize a molecular test for diagnosis of HCL and compare with standard established morphological, cytochemical and immunophenotypic parameters for HCL diagnosis. MATERIALS AND METHODS: The incidence of this mutation was sought in 20 patients with either classical HCL or HCL variant (HCLv) by Sanger sequencing and allele-specific polymerase chain reaction. BRAF p.V600E mutation was noted between the presence of BRAF p.V600E and established diagnostic criteria in 20/20 patients with HCL/HCLv. Our data supports the observation that this mutation is present in all cases of HCL and is absent in HCLv. Hence, detection of the BRAF p. V600E mutation can be a useful adjunct in the diagnostic algorithm.</li> <li>Address: Department of Haematology, Christian Medical College, Vellore, Tamil Nadu, India.</li> </ul>	PMID: 25673595 WOS:000370340800015	NAT

28.	<ul> <li>Arora, R., John, N. T. and Kumar, S.</li> <li>Vesicourethral fistula after retrograde primary endoscopic realignment in posterior urethral injury Urology; 2015, 85 (1): e1-2</li> <li>A 22-year-old male patient presented with iatrogenic vesicourethral fistula after immediate retrograde endoscopic realignment of urethra after a posterior urethral injury associated with pelvic fracture.</li> <li>Address: Department of Urology, Christian Medical College, Vellore, Tamil Nadu, India. Electronic address: Rajat.cmcv@gmail.com.</li> <li>Department of Urology, Christian Medical College, Vellore, Tamil Nadu, India.</li> </ul>	PMID: 25440761 WOS:000346648500001	INT
29.	<ul> <li>Arora, S., Nathaniel, S. D., Paul, J. C. and Hansdak, S. G.</li> <li>Acute liver failure in dengue haemorrhagic fever</li> <li>BMJ Case Rep. 2015 May 24;2015</li> <li>((Arora S., dr.shalabharora@gmail.com; Nathaniel S.D.; Paul J.C.; Hansdak S.G.) Department of Internal Medicine, Christian Medical College Hospital, Vellore, India): While dengue virus infection leads to a mild to moderate elevation of liver transaminases in almost all cases, hepatic failure rarely dominates the clinical picture in adults. We present a case of dengue haemorrhagic fever in a young adult, leading to the rare complication of acute liver failure. He was managed with supportive care and discharged after 5 days. At follow-up after 1 week, he had complete recovery and no residual symptoms.</li> <li>Address: S. Arora, Department of Internal Medicine, Christian Medical College Hospital, Vellore, India</li> </ul>	PMID: 26009600	INT
30.	Arulprakash, S., Sahu, M. K., Dutta, A. K., Joseph, A. and Chandy, G. M. Pancreatic ascariasis with periampullary carcinoma Trop Parasitol; 2015, 5 (1): 55-7 Ascarias lumbricoides infestation is endemic in tropical countries. Most infections are asymptomatic, but it can produce a wide spectrum of manifestations including hepatobiliary and pancreatic complications. There are reports of association of biliary ascariasis with bilary malignancies in the past, but same is not known for pancreatic ascariasis. We report a case of association of periampullary malignancy with pancreatic ascariasis. Address: MIOT Advanced Center for GI and Liver Diseases, MIOT International, Chennai, Tamil Nadu, India. Department of GI sciences, Christian Medical College, Vellore, Tamil Nadu, India.	PMID: 25709954 4326995: 4326995	NAT
31.	<ul> <li>Arun R, Mukherjee A, Tharyan A.</li> <li>Rehabilitation of Homeless Mentally III: Outcomes and Lessons for Mental Health Care in India.</li> <li>Indian Journal of Psychiatry. 2015;57(5):S46-S7</li> <li>Author Address:</li> <li>Arun R, Arnab Mukherjee, Anna Tharyan Christian Medical College, Vellore, India, arunrdr@gmail.com, arnabmukh11@gmail.com, anna.vellore@gmail.com Keyword: Rehabilitation, Psychosocial rehabilitation, Rehabilitation homes, Homeless mentally ill, Destitute mentally ill, Community psychiatry,</li> <li>Background: Chronic mental illness has many adverse social outcomes, one being homelessness. Homeless mentally ill (HMI) are marginalised; provisions for caring HMI are limited. In this background Home for Psycho-social Rehabilitation of Mentally III Persons at Tirupattur Vellore District Tamil Nadu gains attention.</li> </ul>	WOS:000366494300157	NAT

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	Run by non-government organization Udhavum Ullangal, the home rescues HMI from streets and provide shelter, assistance in activities of daily living (ADL), vocational rehabilitation and, psychiatric care are provided by Department of Psychiatry, Christian Medical College, Vellore. Objectives: To assess course and outcome of rehabilitated homeless mentally ill inmates in domains of psychopathology, selfcare, communication, social skill and vocation. Methods: Data from 2006 to 2013 were analysed. From admission (baseline), the inmates' progress is rated periodically on Periodic Psychiatric Assessment Chart (PPAC). using SPSS 16.0, descriptive statistics and paired t test were done. Results: There were 112 inmates of which 30 percent were women. Common psychiatric diagnosis was Psychosis–unspecified. All were on supervised psychotropics. PPAC scores at baseline, at 1 month, at 3 month, at 6 month, at 1 year, at 2 year and at 5 year were analysed. In PPAC, those with 'Stable' mental status were 1%, 3.2%, 5.7%, 17.9%, 36%, 61.9% and 61.5% at observation points. Similar trends were evident in communication, social skills and occupation. Within 6 months, half of inmates became independent in self-care. Paired t test revealed statistically significant change in total PPAC score from baseline to various observation points. Conclusion: Lessons from this model highlight the role of rehabilitation facilities for HMI. Rehabilitation facilities can help HMI in improving psychopathology, ADL and vocation. In spite of such provisions, a proportion is in need of continued supervised care. (Further analysis and conclusion will be presented during the conference).		
32.	<ul> <li>Athiyarath R(1), Shaktivel K, Abraham V, Singh D, Bondu JD, Chapla A, George B, Srivastava A, Edison ES. Association of genetic variants with response to iron supplements in pregnancy.</li> <li>Genes Nutr. 2015 Jul;10(4):474. doi: 10.1007/s12263-015-0474-2. Epub 2015 May 30.</li> <li>Author information: <ul> <li>(1)Department of Haematology, Christian Medical College, Vellore, Tamilnadu, India.</li> </ul> </li> <li>The incidence of iron deficiency anemia in pregnancy is high in India where iron supplementation is a regular practice. The response to oral iron is influenced by several factors such as age, body mass index, gravida, socioeconomic status, food, vitamin deficiency and compliance to supplements. The major challenge is to understand the various modulators of iron status in this high-risk group so that we can improve the diagnosis and the management of these patients. The current study was designed to evaluate the iron status during pregnancy and to identify factors which might be influencing their response to oral iron. We investigated a total of 181 pregnant women with anemia (Hb &lt; 11 g/dl) and evaluated the impact of probable factors on anemia and their iron status. Assessment of the response was based on hemoglobin and serum ferritin or transferrin saturation level after 8 and 20 weeks of iron supplementation. Socioeconomic, clinical, hematological, biochemical and genetic factors were all evaluated. Molecular analysis revealed that HFE variant allele (G) (rs1799945) was significantly associated with an adequate response to iron supplementation. We identified five subjects with a sustained poor response, and targeted re-sequencing of eleven iron-related genes was performed in them. We have identified seven novel variants in them, and in silico analysis suggested that these variants may have an iron regulatory effect. Taken together, our findings underscore the association of genetic variants with response to supplements in pregnancy, and they can be extended to other diseases where anemia a</li></ul>	PMID: 26024779 PMC4449341 WOS:000357446900010	INT

33.	<ul> <li>Athiyarath, R., George, B., Abraham, A., Viswabandya, A., Srivastava, A. and Edison, E. S.</li> <li>Genetic modifiers of secondary iron overload in beta thalassemia major</li> <li>Blood Cells Mol Dis; 2015, 54 (3): 242-3</li> <li>Address: Department of Haematology, Christian Medical College, Vellore, India.</li> <li>Department of Haematology, Christian Medical College, Vellore, India.</li> <li>Electronic address:</li> <li>eunice@cmcvellore.ac.in.</li> </ul>	PMID: 25601433 WOS:000351023500005	INT
34.	<ul> <li>Aufforth RD(1), Ramakant P(1), Sadowski SM(1), Mehta A(1), Trebska-McGowan K(1), Nilubol N(1), Pacak K(1), Kebebew E(1).</li> <li>Pheochromocytoma Screening Initiation and Frequency in von Hippel-Lindau Syndrome.</li> <li>J Clin Endocrinol Metab. 2015 Dec;100(12):4498-504. doi: 10.1210/jc.2015-3045.Epub 2015 Oct 9.</li> <li>Author information:         <ul> <li>(1)Endocrine Oncology Branch (R.D.A. S.M.S., N.N., E.K.), National Cancer</li> <li>Institute, National Institutes of Health, Bethesda, Maryland 20892; Endocrine</li> <li>Surgery Department (P.R.), Christian Medical College, Vellore, India; Geisel</li> <li>School of Medicine (A.M.), Hanover, New Hampshire; Thoracic and Gastrointestinal Oncology Branch (K.TM.), National Cancer Institute, Bethesda, Maryland; and Program in Reproductive and Adult Endocrinology (K.P.), Eunice Kennedy Shriver National Institute of Child Health and Human Development, National</li> <li>Institutes of Health, Bethesda, Maryland 20892.</li> </ul> </li> <li>CONTEXT: Patients with von Hippel-Lindau (VHL) syndrome have a 25-30% chance of developing pheochromocytoma in patients with VHL, there are limited data on the optimal age and frequency for screening. OBJECTIVE: Our objective was to determine the earliest age of onset and frequency of contralateral and recurrent pheochromocytomas in patients with VHL syndrome. METHODS: This is a retrospective analysis of a prospective cohort of patients with VHL syndrome. METHODS: This is a retrospective analysis of a prospective cohort of patients underwent adrenalectomy. Fifty-eight and 32% of patients had netanephrines and/or catecholamines elevated more than two times and more than four times upper limit of normal, respectively. Twenty-five percent (21) of pheochromocytomas were diagnosed in pediatric patients wind prears of age, and 86% and 57% of pediatric patients had a total of nine recurrences. The media age at recurrence was 33.5 years</li></ul>	PMID: 26451910 WOS:000368428600030	INT
35.	lifelong screening. B. T. Kurien1,2,3, V. Harris1,2, S. M. S. Quadri1,2, J. Cavett1,2, A. Moyer1, B. Ittig1, A. Metcalf2, K.	WOS:000353401300190.	INT
55.	Koelsch1,2,3, M. Centola4, A. Payne4, P. C. deSouza2, D. Danda2,5 & R. H. Scofield1,2,3 1 Ultrasoluble Curcumin/Turmeric Ameliorates Lesions and Increases Survival in a Mouse Model of Sjo"gren's Syndrome and Lupus		2141

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	Scandinavian Journal of Immunology. 2015;81(5):424		
	http://www.sicca.org/isss2015/resources/Scandinavian-Journal-of-Immunology-May-2015.pdf		
	University of Oklahoma Health Sciences Center, Oklahoma City, OK 73104, USA, 2 Oklahoma Medical		
	Research Foundation, Oklahoma City, OK 73104, USA, 3 Veterans Affairs, Oklahoma City, OK 73104, USA, 4		
	Haus Bioceuticals, Oklahoma City, OK 73104, USA, and 5 Christian Medical College, Vellore, India Purpose:		
	Commercial curcumin (CU), derived from food spice turmeric (TU), has been widely studied as a potential		
	therapeutic for a variety of oncological and inflammatory conditions. However, lack of solubility and		
	bioavailability has hindered CU's therapeutic efficacy in human diseases. We solubilized CU with		
	heat/pressure (ultrasoluble CU). Solubilized CU had anti-oxidant effects and inhibited binding of anti-Ro60		
	[from Sjogren's syndrome (SS) and systemic lupus erythematosus (SLE) subjects] to Ro60 autoantigen in		
	vitro. We hypothesized that ultrasoluble CU/TU will ameliorate SS and SLE like disease in MRLIpr/Ipr mice.		
	Materials: Eighteen female MRL-MpJ and 18 female MRL-MpJ MRL-lpr/lpr mice (6 week old) were used. Six		
	mice of each strain received autoclaved water only, water with ultrasoluble CU or water with ultrasoluble TU.		
	Results: Salivary gland histopathology studies showed significantly reduced cellular infiltration in TU/CU		
	treated MRL-lpr/lpr mice, compared to controls. 2/5 CU mice had focus score (FS) 1. CU/TU treated mice had		
	significantly reduced proteinuria and urinary cell casts until week 14. There was delayed onset of		
	autoantibodies in CU/TU treated mice, compared to controls. CU treated mice had a 20% survival advantage		
	over control mice. However, TU-treated animals lived an average of 16 days shorter than control mice due to		
	complications unrelated to SS or lupus-like illness. CU/TU treated MRL-MpJ controls did not have problems		
	with CU/TU treatment and were sacrificed at 36 weeks of age. CU or TU treatment inhibited		
	lymphadenopathy significantly compared to controls ( $P = 0.03$ and $P = 0.02$ , respectively). TUNEL assay		
	showed that lymphocytes in lymph nodes of TU/CU treated mice underwent apoptosis. Conclusion: Heat		
	solubilized CU/TU could prove useful as a therapeutic intervention in SS and SLE S12.7.		
36.	Babu AS(1), Ikbal FM(2,)(3), Noone MS(4), Joseph AN(4), Danda D(5).		INT
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	Does low bone density influence symptoms and functional status in patients withfibromyalgia? Observations	WOS:000369524700006	
	Does low bone density influence symptoms and functional status in patients withfibromyalgia? Observations from rural South India.		
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	Does low bone density influence symptoms and functional status in patients withfibromyalgia? Observations from rural South India. Int J Rheum Dis. 2015 Nov;18(8):850-3. doi: 10.1111/1756-185X.12649. Epub 2015Apr 30.		INT
	Does low bone density influence symptoms and functional status in patients withfibromyalgia? Observations from rural South India. Int J Rheum Dis. 2015 Nov;18(8):850-3. doi: 10.1111/1756-185X.12649. Epub 2015Apr 30. Author information:		INT
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	<ul> <li>Does low bone density influence symptoms and functional status in patients withfibromyalgia? Observations from rural South India.</li> <li>Int J Rheum Dis. 2015 Nov;18(8):850-3. doi: 10.1111/1756-185X.12649. Epub 2015Apr 30.</li> <li>Author information: <ul> <li>(1)School of Allied Health Sciences, Manipal University, Manipal, Karnataka, India. (2)Department of Orthopaedics, Kerala Institute of Medical Sciences, Kottakal, India. (3)Department of Orthopaedics, CSI Mission Hospital, Codacal, Kerala, India. (4)Department</li> </ul> </li> </ul>		INT
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	Does low bone density influence symptoms and functional status in patients withfibromyalgia? Observations from rural South India. Int J Rheum Dis. 2015 Nov;18(8):850-3. doi: 10.1111/1756-185X.12649. Epub 2015Apr 30. Author information: (1)School of Allied Health Sciences, Manipal University, Manipal, Karnataka, India. (2)Department of Orthopaedics, Kerala Institute of Medical Sciences, Kottakal, India. (3)Department of Orthopaedics, CSI Mission Hospital, Codacal, Kerala, India. (4)Department of Rehabilitation, CSI Mission Hospital, Codacal, Kerala, India. (5)Department of Clinical Immunology and Rheumatology, ChristianMedical College and Hospital, Vellore, Tamil Nadu, India.		INT
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	specialists should consider screening for bone density among those with FMS and should use this information to decide appropriate therapies to reduce pain and improve QoL.		
37.	Babu SE(1), Singh IR, Poornima CG, Ravindran BP. Enhancing the longevity of three-dimensional dose in a diffusion-controlled Fricke gel dosimeter.	PMID: 26458585 WOS:000363420200012	NAT
	J Cancer Res Ther. 2015 Jul-Sep;11(3):580-5. doi: 10.4103/0973-1482.163689.		
	Author information: (1)Department of Radiotherapy, Christian Medical College, Vellore, Tamil Nadu,India.		
	INTRODUCTION: The principle of Fricke gel dosimeter is the oxidation of ferric ions on exposure to radiation. The major limitation in this dosimeter is the post-irradiation diffusion of ferric ions leading to degradation of spatial dose information. AIMS AND OBJECTIVES: The primary objective of this study is to reduce diffusion of ferric ions post-irradiation and enhance the spatial stability of the dose for an acceptable period, within which it can be read out. MATERIALS AND METHODS: A novel method has been proposed to achieve this aim by incorporation of an anti-oxidant in the present Fricke gel dosimeter. The modified gel prepared in this study consisted of 50 mM sulfuric acid, 0.05 mM xylenol orange, 0.5 mM ferrous ammonium sulfate, and an optimal concentration of anti-oxidant. Different concentrations of the anti-oxidant (ascorbic acid and glycine) based gel dosimeters were prepared. The performance evaluations of the same were characterized dosimetrically with high energy photons (x- and gamma rays). Spectrophotometric measurements of gel dosimeters were performed at a wavelength of 585 nm and the post-irradiation diffusion was studied by observing the dose response over time. The spatial dose information from the large volume cylindrical gel phantoms was acquired using an in-house optical computed tomography scanner. RESULTS: Auto-oxidation and diffusion were controlled in the enhanced Fricke gel dosimeter by the incorporation of glycine as anti- oxidant. The post-irradiation dose in the gel dosimeter was stable up to 6 hours, thereby enhancing the longevity of three-dimensional (3D) dose. CONCLUSION: The widely established limitations of Fricke gel dosimeter viz., auto-oxidation and diffusion were overcome using a novel method that incorporated optimal quantity of glycine as a suitable anti-oxidant. This modified Fricke gel dosimeter could be used as an effective 3D dosimeter for practical applications in radiotherapy.		
38.	Bachhawat BK(1), Austin J(1), Armstrong D(1). A Cerebroside Sulphotransferase Deficiency in a Human Disorder of Myelin. Natl Med J India. 2015 May-Jun;28(3):161-4.	PMID: 26724359 WOS:000368217700024	NAT
	Author information: (1)Division of Neurology, University of Oregon Medical School, Portland, Oreg., U.S.A. and Department of Neurology, Neurosurgery and Neurochemistry, Christian Medical College and Hospital, Vellore, India.		
39.	Balaji V(1), Jayaraman R, Verghese VP, Baliga PR, Kurien T. Pneumococcal serotypes associated with invasive disease in under five children inIndia & implications for vaccine policy.	PMID: 26458344 WOS:000363221700008	NAT

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	Indian J Med Res. 2015 Sep;142(3):286-92. doi: 10.4103/0971-5916.166588.		
	Author information: (1)Department of Microbiology, Christian Medical College & Hospital, Vellore, India.		
	BACKGROUND & OBJECTIVES: Streptococcus pneumoniae is a major cause of morbidity and mortality especially in children less than five years, particularly in India. We present data on S.pneumoniae infections in children less than five years age group, with response to its serotype distribution, antibiotic resistance profile and available vaccines expected coverage. METHODS: Children aged less than five, who were suspected for invasive pneumococcal disease were included in the study and their sterile body fluids were investigated for the presence of S. pneumoniae. Invasive S. pneumoniae isolates from sterile body fluids were identified by bile solubility and optochin susceptibility test. Pneumococcal serotyping was performed with co-agglutination technique and reconfirmed with multiplex PCR. RESULTS: The most common pneumococcal serotypes causing invasive infections in children less than five years of age were 14, 19F, 5, 6A and 6B. Of the 114 S. pneumoniae isolates studied, 110 (96.4%) were non-susceptible to co-trimoxazole and 30 per cent were non-susceptible to erythromycin, 5.2 per cent of the isolates were non-susceptible to penicillin and only 0.8 per cent was non-susceptible to cefotaxime. INTERPRETATION & CONCLUSIONS: Our results indicate that PCV-10 can provide increase in protection upto 74.6 per cent against serotypes causing invasive pneumococcal infections. Incorporating PCV-13 in the Universal Immunization Programme may provide incremental protectionagainst IPD serotypes in the southern region of the country.		
40.	Balaji V(1), Rajenderan S(1), Anandan S(1), Biswas I(2). Genome Sequences of Two Multidrug-Resistant Acinetobacter baumannii Clinical Strains Isolated from Southern India.	PMC4566177, 26358595	INT
	Genome Announc. 2015 Sep 10;3(5). pii: e01010-15. doi: 10.1128/genomeA.01010-15.		
	Author information: (1)Department of Clinical Microbiology, Christian Medical College, Vellore, Tamil Nadu, India. (2)Department of Microbiology, Molecular Genetics and Immunology, University of Kansas Medical Center, Kansas City, Kansas, USA ibiswas@kumc.edu.		
	Acinetobacter baumannii is an emerging nosocomial pathogen causing infections worldwide. In this study, we determined the genome sequences of two multidrug-resistant A. baumannii clinical strains isolated from a hospital in southern India. Genome analyses indicate that both the strains harbor numerous horizontally transferred genetic elements and antibiotic resistance cassettes.		
41.	Balasingh ST(1), Singh IR(1), Rafic KM(1), Babu SE(1), Ravindran BP(1). Determination of dosimetric leaf gap using amorphous silicon electronic portal imaging device and its influence on intensity modulated radiotherapy dose delivery.	PMID: 26500398	NAT

	CINC SCIENTIFIC PUBLICATION FOR THE YEAR 2015 (JANUART TO DECE		
	J Med Phys. 2015 Jul-Sep;40(3):129-35. doi: 10.4103/0971-6203.165072.		
	Author information: (1)Department of Radiotherapy, Christian Medical College, Vellore, Tamil Nadu,India.		
	As complex treatment techniques such as intensity modulated radiotherapy (IMRT) entail the modeling of rounded leaf-end transmission in the treatment planning system, it is important to accurately determine the dosimetric leaf gap (DLG) value for a precise calculation of dose. The advancements in the application of the electronic portal imaging device (EPID) in quality assurance (QA) and dosimetry have facilitated the determination of DLG in this study. The DLG measurements were performed using both the ionization chamber (DLGion) and EPID (DLGEPID) for sweeping gap fields of different widths. The DLGion values were found to be 1.133 mm and 1.120 mm for perpendicular and parallel orientations of the 0.125 cm(3) ionization chamber, while the corresponding DLGEPID values were 0.843 mm and 0.819 mm, respectively. It was found that the DLG was independent of volume and orientation of the ionization chamber, depth, source to surface distance (SSD), and the rate of dose delivery. Since the patient-specific QA tests showed comparable results between the IMRT plans based on the DLGEPID and DLGion, it is concluded that the EPID can be a suitable alternative in the determination of DLG.		
42.	Balasubramanian $S(1)$ , Melendez-Calderon $A(2,)(3)$ , Roby-Brami $A(4)$ , Burdet $E(5)$ . On the analysis of movement smoothness.	PMID: 26651329 WOS:000366246500001	INT
	J Neuroeng Rehabil. 2015 Dec 9;12:112. doi: 10.1186/s12984-015-0090-9.		
	(1)Department of Bioengineering, Christian Medical College, Bagayam, Vellore, 632002, Tamil Nadu, India. siva82kb@cmcvellore.ac.in. (2)Department of Physical Medicine and Rehabilitation, Northwestern University, Chicago, 60611, IL, USA. (3)Hocoma AG, Volketswil, 8604, Switzerland. (4)ISIR, UPMC, CNRS UMR 7222, Agathe team INSERM U1150, Paris, 75005, France. (5)Department of Bioengineering, Imperial College of Science, Technology and Medicine, South Kensington campus, London, SW7 2AZ, UK.		
	Quantitative measures of smoothness play an important role in the assessment of sensorimotor impairment and motor learning. Traditionally, movement smoothnesshas been computed mainly for discrete movements, in particular arm, reaching and circle drawing, using kinematic data. There are currently very few studiesinvestigating smoothness of rhythmic movements, and there is no systematic way ofanalysing the smoothness of such movements. There is also very little work on thesmoothness of other movement related variables such as force, impedance etc. Inthis context, this paper presents the first step towards a unified framework for the analysis of smoothness of arbitrary movements and using various data. It starts with a systematic definition of movement smoothness and the different factors that influence smoothness, followed by a review of existing methods for quantifying the smoothness of discrete movements. A method is then introduced to analyse the smoothness of rhythmic movements by generalising the techniquesdeveloped for discrete movements. We finally propose recommendations foranalysing smoothness of any general sensorimotor behaviour.		
43.	Balukrishna, S., Pilaka, V. K. R., Michael, R. C., Samuel, P. and Ravindran, P. B. Hyper-fractionated intensity modulated radiation therapy (HF-IMRT) in head and neck cancer: The technical feasibility and results of a short clinical series	PMID: 26155549 PMCID: PMC4484141	NAT
	Journal of Clinical and Diagnostic Research; 2015, 9 (5): XR01-XR04		

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	Among various altered fractionation schedules, only hyper-fractionation has proven increased local control in head and neck cancers. MARCH (Metanalyses of Hyperfractionated or Accelerated radiotherapy in Head and neck cancer) concluded that hyper-fractionated radiotherapy in head and cancers had a survival benefit. This study attempts to combine the benefits of hyper-fractionation with the tissue sparing qualities of intensity modulated radiotherapy. Three patients with advanced oro-pharyngeal cancers were treated with HF-IMRT (Hyperfractionated-IMRT) (2 oropharynx, 1 hypopharynx). Two phase treatment planning with phase I prescribed to high risk volume (HRV) and intermediate risk volume (IRV), 60Gy in 50 fractions at 1.2Gy per fraction, 2 fractions/day, 6null8 h apart. The low risk volume (LRV) received 55Gy to the 95% volume at 1.1Gy per fraction in the same 50 fractions. In phase II, HRV alone was prescribed 1960cGy in 20 fractions over two weeks. Total dose to HRV was 7960cGy in 7 wk. No concurrent chemotherapy was given. Treatment was completed as planned (<60 days; break of 11 days was due to radiation toxicity). Only one patient had grade III toxicity. All three required diet modifications, an average weight loss of 3 kg and no hospitalization required during treatment. This pilot study shows the feasibility of an effective hyper-fractionation with IMRT for head and neck cancers. A Phase II trial is required to prove its efficacy. Address: S. Balukrishna, Department of Radiation Oncology, Christian medical College, Vellore, India		
44.	Banerji JS(1), Devasia A(1), Kekre NS(1), Chacko N(1). Early urinary diversion with ileal conduit and vesicovaginostomy in the treatmentof radiation cystitis due to carcinoma cervix: a study from a tertiary carehospital in South India. ANZ J Surg. 2015 Oct;85(10):770-3. doi: 10.1111/ans.12898. Epub 2014 Nov 4. Author information: (1)Department of Urology, Christian Medical College, Vellore, India. BACKGROUND: To study the magnitude of radiation cystitis following radiation therapy for carcinoma cervix, and propose an algorithm to decide on early diversion, with or without vesicovaginostomy. METHODS: Women who developed radiation cystitis following radiation therapy for carcinoma cervix, and propose an algorithm to decide on early diversion, with or without vesicovaginostomy. METHODS: Women who developed radiation cystitis following radiotherapy for carcinoma cervix from January 1998 to December 2011 were included in this retrospective study. Electronic hospital records were analysed to document the presence of radiation cystitis. All women who developed evidence of radiation-induced cystitis, according to the common toxicity and Radiation Therapy Oncology Group criteria, were included in the study. We looked at transfusion requirements, number of hospital admissions, quality of life and cost involved. Chi- square tests were done where applicable. SPSS version 16 was usedfor analysis. RESULTS: Of the 902 patients who received radiation for carcinoma cervix in the 13-year period, 62 (6.87%) developed grade 3/4 cystitis. Twenty-eight of them underwent ileal conduit diversion, with 18 undergoing concomitant vesicovaginostomy. When compared with the patients who did not have diversion, The limitation of the study wasthat it was retrospective in nature. CONCLUSION: In radiation cystitis, multiple hospital admissions and consequential increase in cost is the norm. In severe disease, early diversion is a prudent, cost-effective approach with good quality of life and early return to normal activity.	PMID: 25366250 WOS:000362552000017	INT
45.	Banerji, J. S. Persistent back pain in a young woman Cleve Clin J Med; 2015, 82 (6): 337-8 Address: Associate Professor, Department of Urology, Christian Medical College, Vellore, India. E-mail: johnsbanerji@cmcvellore.ac.in.	PMID: 26086490 WOS:000355680600010	INT

	Fellow in Urologic Oncology, Section of Urology and Renal Transplantation, Virginia Mason Medical Center, Seattle, WA, USA.		
46.	Barla RK(1), Sen S(2). Skin cover in epispadias repair by dorsal transposition of a ventral island flap: a modification of the Pippi Salle technique.	PMID: 26302714 WOS:000363040200014	INT
	Pediatr Surg Int. 2015 Nov;31(11):1099-102. doi: 10.1007/s00383-015-3785-x. Epub 2015 Aug 25. Author information:		
	(1)Department of Paediatric Surgery, Christian Medical College and Hospital, Vellore, Tamil Nadu, India. ravikishore96@gmail.com. (2)Department of Paediatric Surgery, Christian Medical College and Hospital, Vellore, Tamil Nadu, India.		
	PURPOSE: To describe a technique for a reliable and cosmetic skin cover for epispadias repair. This is achieved using a ventral flap of prepuce and the penile skin. This is a modification of the technique described by Pippi Salle, who wrapped the penile shaft with the same flap, from one side with a resultant suture line on to the contralateral side of the penis. METHODS: Thirty-five children (18 with pure epispadias and 17 with exstrophy epispadias complex) who underwent epispadias repair by the described technique in our hospital were reviewed. In our technique, a ventral flap of prepuce and penile skin, as described by Pippi Salle, is developed and a button hole is made in the dartos fascia. This button hole is utilized to deliver the shaft ventrally which effectively brings the flap onto the dorsal aspect of the penile. The skin flap is then wrapped in toto around to provide a complete cover on the penile statisfactory skin cover with a scarless dorsum of penis. Two children had immediate post-operative ventral suture line breakdown, one requiring resuturing and the other healed spontaneously. CONCLUSION: The 'button hole' technique with dorsal transposition of the prepuce and skin flap effectively prevents the dorsal scar contracture by completely avoiding a longitudinal suture line dorsally. On the other hand, the healed ventral suture line is continuous with the scrotal midline raphe, giving a natural look. The overall result is a sturdy repair with a cosmetic appearance of the penis.		
47.	Barve, D. J. and Gupta, A. The extended distally based sural neurocutaneous flap for foot and ankle reconstruction: a retrospective review of 10 years of experience Ann Plast Surg; 2015, 74 (6): 743 Address: Department of Plastic Surgery Unit 2, Christian Medical College, Vellore, India	PMID: 25969976 WOS:000354888000022	INT
	doctorbarve@gmail.com.		
48.	<ul> <li>Basmanav FB(1), Fritz G(2), Lestringant GG(3), Pachat D(4), Hoffjan S(5), Fischer J(1), Wehner M(1), Wolf S(1), Thiele H(6), Altmüller J(7), Pulimood SA(8), Rütten A(9), Kruse R(10), Hanneken S(11), Frank J(12), Danda S(4), Bygum A(13), Betz RC(1).</li> <li>Pathogenicity of POFUT1 in Dowling-Degos disease: additional mutations and clinical overlap with reticulate acropigmentation of kitamura.</li> </ul>	PMID: 25229252 WOS:000347672300038	INT
	J Invest Dermatol. 2015 Feb;135(2):615-8. doi: 10.1038/jid.2014.406. Epub 2014 Sep 17.		

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	Author information: (1)Institute of Human Genetics, University of Bonn, Bonn, Germany. (2)Department of Neuropathology, Neurozentrum, University of Freiburg, Freiburg, Germany. (3)Division of Dermatology, Tawam University Hospital, Al Ain, United Arab Emirates. (4)Department of Clinical Genetics, Christian Medical College and Hospital, Vellore, Tamil Nadu, India. (5)Department of Human Genetics, Ruhr-University, Bochum, Germany. (6)Cologne Center for Genomics, University of Cologne, Cologne, Germany. (7)1] Cologne Center for Genomics, University of Cologne, Cologne, Germany [2] Institute of Human Genetics, University of Cologne, Cologne, Germany. (8)Department of Dermatology, Christian Medical College and Hospital, Vellore, Tamil Nadu, India. (9)Laboratory of Dermatohistopathology, Friedrichshafen, Germany. (10)Dermatological Practice, Paderborn, Germany. (11)Department of Dermatology, University Hospital Düsseldorf, Düsseldorf, Germany. (12)1] Department of Dermatology, University Hospital Düsseldorf, Germany [2] Skin Cancer Center, University Hospital Düsseldorf, Düsseldorf, Germany. (13)Department of Dermatology and Allergy Centre, Odense University Hospital, Odense, Denmark.		
49.	<ul> <li>Basu P(1), Banerjee D(1), Mittal S(1), Dutta S(1), Ghosh I(1), Chowdhury N(1), Abraham P(2), Chandna P(3), Ratnam S(4).</li> <li>Sensitivity of APTIMA HPV E6/E7 mRNA test in comparison with hybrid capture 2 HPVDNA test for detection of high risk oncogenic human papillomavirus in 396 biopsy confirmed cervical cancers.</li> <li>J Med Virol. 2015 Dec 22. doi: 10.1002/jmv.24453. [Epub ahead of print]</li> <li>(1)Chittaranjan National Cancer Institute, Kolkata, India. (2)Christian Medical College, Vellore, India. (3)AceProbe Technologies (India) Pvt. Ltd, New Delhi, India. (4)Memorial University, St. John's, Newfoundland and Labrador, Canada.</li> <li>The sensitivity of E6/E7 mRNA-based Aptima HPV test (AHPV; Hologic Inc) fordetection of cervical cancer has been reported based on only a small number ofcases. We determined the sensitivity of AHPV in comparison with the DNA-basedHybrid Capture 2 HPV test (HC2; Qiagen) for the detection of oncogenic HPV in alarge number of cervical cancers at the time of diagnosis using cervical samples obtained in ThinPrep (Hologic).</li> <li>Samples yielding discordant results weregenotyped using Linear Array assay (LA; Roche). Of 396 cases tested, AHPVdetected 377 (sensitivity, 95.2%; 95% CI: 93.1 - 97.3), and HC2 376 (sensitivity,94.9%; 95% CI: 92.7 - 97.1) with an agreement of 97.2% (kappa 0.7; 95% CI:0.54-0.87). Among six AHPV+/HC2-cases, LA identified oncogenic HPV types infour including a type 73 and was negative in two. Among five AHPV-/HC2+ cases, 13 were genotyped. LA detected oncogenic HPV types in six, non-oncogenic types in three, of 14 AHPV-/HC2+ cases, 13 were genotyped. LA detected oncogenic HPV types in six, non-oncogenic types in three, of 14 AHPV-/HC2+ cases, 13 were genotyped. LA detected oncogenic HPV types in six, non-oncogenic types in three, of 14 AHPV-/HC2+ cases, 13 were genotyped. LA detected oncogenic HPV types in six, non-oncogenic types in three, of invasive cervical cancer and this assay showed equal sensitivity to HC2. Thisarticle is protected</li></ul>	PMID: 26693677 [PubMed - as supplied by publisher]	INT
50.	Baxi, R., Vasan, S. K., Hansdak, S., Samuel, P., Jeyaseelan, V., Geethanjali, F. S., Murray, R. R., Venkatesan, P. and Thomas, N. Parental determinants of metabolic syndrome among adolescent Asian Indians: A cross-sectional analysis of parent-offspring trios J Diabetes; 2015, Jun 4	PMID: 26040846	INT

	BACKGROUND: The aim of the present study was to investigate the relationship between parental metabolic syndrome (MS) and the risk of MS and associated abnormalities in adolescent offspring. METHODS: This cross-sectional study was performed on 304 adolescents (12-16 years; 236 children with at least one parent and 124 father-mother-child trios) recruited from four schools representing different socioeconomic strata from Vellore, India. Anthropometric data was collected and blood pressure, blood glucose, and lipids were measured. RESULTS: The prevalence of MS in adolescent offspring, fathers, and mothers was 3.3%, 52.5%, and 48.7% respectively. The most commonly observed metabolic abnormality among adolescents was lower high-density lipoprotein. Maternal waist circumference (WC) was strongly correlated with adolescent body mass index (P = 0.007), WC (P < 0.001), serum triglycerides (P = 0.02), and systolic (P = 0.005) and diastolic (P = 0.01) blood pressure. Maternal MS status was significantly associated with a greater risk of central obesity (WC odds ratio [OR] 2.02; 95% confidence interval [CI] 1.21-3.17) in offspring. Both parents having MS conferred a significant effect on the child's WC (OR 1.21; 95% CI 1.72-2.07) and increased risk of MS (OR 6.19; 95% CI 1.64-23.26). CONCLUSIONS: This study highlights the possible heritable parental components that may contribute to the MS phenotype in offspring: MS in adolescent offspring is related to parental MS status, and maternal traits reflect offspring adiposity and metabolic traits more strongly than paternal factors. Therefore, adolescent children of parents with MS should be targets for primordial prevention of cardiometabolic disease. Address: Department of Endocrinology, Diabetes and Metabolism, Christian Medical College, Vellore, India. Department of Medical Epidemiology and Biostatistics, Karolinska Institutet, Stockholm, Sweden. Department of Biostatistics, Christian Medical College, Vellore, India. Department of Biostatistics, Christian Medical College,		
51.	Bera C(1), Michael JS(2), Burad D(3), Shirly SB(2), Gibikote S(4), Ramakrishna B(3), Goel A(5), Eapen	PMID: 26531065	NAT
	CE(1). Tissue Xpert <sup>™</sup> MTB/Rif assay is of limited use in diagnosing peritoneal tuberculosis in patients with exudative ascites.		
	Indian J Gastroenterol. 2015 Sep;34(5):395-8. doi: 10.1007/s12664-015-0599-7. Epub 2015 Nov 4.		
	Author information:		
	(1)Department of Hepatology, Christian Medical College, Vellore, 632 004, India. (2)Department of Microbiology, Christian Medical College, Vellore, 632 004, India. (3)Department of Pathology, Christian Medical College, Vellore, 632 004, India. (4)Department of Radiology, Christian Medical College, Vellore, 632 004, India. (5)Department of Hepatology, Christian Medical College, Vellore, 632 004, India. drashishgoel@cmcvellore.ac.in.		
	BACKGROUND: Xpert <sup>™</sup> MTB/Rif is a multiplex hemi-nested real-time PCR-based assay to detect presence of M. tuberculosis within 2 hours of sample collection. The present study aimed at assessing efficacy of Xpert <sup>™</sup> MTB/Rif assay for diagnosing peritoneal tuberculosis. METHODS: Patients with exudative ascites, fluid negative for acid-fast bacilli on auramine O fluorescence staining and unyielding fluid cytology for malignant cells, were included. Ultrasound-guided omental biopsy samples were obtained in all. Xpert <sup>™</sup> MTB/Rif assay on tissue samples was assessed against a composite "reference" standard for diagnosis of peritoneal tuberculosis, defined as presence of any of the three-culture showing M tuberculosis, granulomatous inflammation on histology or resolution of ascites with 2 months of antitubercular therapy. RESULTS: During January 2012-July 2013, 28 patients (age:43±15 years; mean±SD; male:20) were recruited. Serum ascitic		

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	albumin gradient was <1.1 in all except in four patients with underlying cirrhosis. Twenty-one of the 28 patients had peritoneal TB as diagnosed by composite reference standard (histology:18; culture:4; treatment response:3). Seven patients (25 %) had an alternative diagnosis (metastatic carcinoma 2, adenocarcinoma 2, mesothelioma 2, and systemic lupus erythematous 1). Xpert <sup>™</sup> MTB/Rif assay was positive in 4/21 patients with peritoneal tuberculosis and in none of the 7 patients with alternative diagnosis. Thus, sensitivity, specificity, positive, and negative predictive values for tissue Xpert <sup>™</sup> MTB/Rif assay in diagnosing peritoneal tuberculosis were 19 % (95 % C.I: 6 % to 42 %), 100 % (95 % C.I: 59 % to 100 %), 100 % (40 % to 100 %), and 29 % (95 % C.I: 13 % to 51 %), respectively. INTERPRETATION AND CONCLUSION: Tissue Xpert <sup>™</sup> MTB/Rif assay was of limited use in diagnosing peritoneal tuberculosis.		
52.	<ul> <li>Bhagat A(1), Vyas R(2), Singh T(3).</li> <li>Students awareness of learning styles and their perceptions to a mixed method approach for learning.</li> <li>Int J Appl Basic Med Res. 2015 Aug;5(Suppl 1):S58-65. doi: 10.4103/2229-516X.162281.</li> <li>Author information: <ul> <li>(1)Department of Physiology, Government Medical College and Hospital, Chandigarh, India. (2)Department of Physiology, Medical Education Unit, Christian Medical College, Vellore, Tamil Nadu, India. (3)Department of Pediatrics, Christian Medical College, Ludhiana, Punjab, India.</li> </ul> </li> <li>BACKGROUND: Individualization of instructional method does not contribute significantly to learning outcomes although it is known that students have differing learning styles (LSs). Hence, in order to maximally enhance learning, one must try to use a mixed method approach. HYPOTHESIS: Our hypothesis was that awareness of preferred LS and motivation to incorporate multiple learning strategies might enhance learning outcomes. AIM: Our aim was to determine the impact of awareness of LS among medical undergraduates and motivating students to use mixed methods of learning. ATERIALS AND METHODS: Before awareness lecture, LS preferences were determined using Visual, Aural, Read/Write, and Kinesthetic (VARK) questionnaire. Awareness of LS was assessed using a validated questionnaire. Through a lecture, students were oriented to various LSs, impact of LS on their performance, and benefit of using mixed method approach for learning. Subsequently, group discussions were organized. After 3 months, VARK preferences and awareness of LSs were reassessed. Student narratives were collected. Qualitative analysis of the data was done. RESULTS: There was a significant increase in the number of students who were aware of LS. The number of participants showing a change in VARK scores for various modalities of learning was also significant (P &lt; 0.001). CONCLUSION: Thus, awareness of LSs motivated students to adapt other learningstrategies and use mixed method</li></ul>	PMCID: PMC4552069	INT
53.	<ul> <li>Bharadwaj S(1), Venkatraghavan L(1), Mariappan R(2), Ebinu J(3), Meng Y(3), Khan O(3), Tung T(3), Reyhani S(3), Bernstein M(3), Zadeh G(4).</li> <li>Serum lactate as a potential biomarker of non-glial brain tumors.</li> <li>J Clin Neurosci. 2015 Oct;22(10):1625-7. doi: 10.1016/j.jocn.2015.05.009. Epub 2015 Jun 19.</li> </ul>	PMID: 26100160 WOS:000361773100015	INT
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	<ul> <li>(1)Department of Anesthesia, University Health Network, Toronto Western Hospital, Ontario, Canada.</li> <li>(2)Department of Anesthesia, Christian Medical College Hospital, Vellore, India. (3)Division of Neurosurgery, Department of Surgery, University Health Network, Toronto Western Hospital, 399 Bathurst Street, Toronto, Ontario M5T2S8, Canada. (4)Division of Neurosurgery, Department of Surgery, University Health Network, Toronto Western Hospital, 399 Bathurst Street, Toronto, Western Hospital, 399 Bathurst Street, Toronto, Ontario M5T2S8, Canada. Electronic address: Gelareh.Zadeh@uhn.ca.</li> <li>We assess whether serum lactate is a potential biomarker for non-glial cell brain tumors. Rapidly growing tumor cells typically have glycolytic rates up to 200 times higher than those of their normal tissues of origin</li> </ul>		
	and produce lactate even in the presence of oxygen. This phenomenon is called the Warburg effect. We recently showed that serum lactate levels can be used as a potential non-invasive biomarker in glial cell brain tumors, which correlates with both tumor grade and the extent of malignancy. In the present study, we found that patients with metastatic brain tumors had significantly higher baseline serum lactate levels compared to patients with meningioma and pituitary tumors. There was a statistically significant association between metastatic brain tumors and elevated serum lactate. We demonstrate that lactate can be used as a non-invasive biomarker to determine malignancy for brain tumors. Further analyses of larger populations will be needed to establish the value of serum lactate in determining the response to therapy or early recurrence.		
54.	Bhaumik S(1), Mathew RJ(2). Health and beyondstrategies for a better India: using the "prison window" to reach disadvantaged groups in primary care.	PMC4535085, 26288765	NAT
	J Family Med Prim Care. 2015 Jul-Sep;4(3):315-8. doi: 10.4103/2249-4863.161304.		
	Author information: (1)Journal of Family Medicine and Primary Care, India. (2)Cochrane South Asia, Christian Medical College, Vellore, India.		
55	As of 2013, the latest statistics available, more than 400,000 individuals are lodged in Indian prisons. Prisoners represent a heterogeneous population, belonging to socially diverse and economically disadvantaged sections of society with limited knowledge about health and healthy lifestyles. There is considerable evidence to show that prisoners in India have an increased risk of mental disorders including self-harm and are highly susceptible to various communicable diseases. Coupled together with abysmal living conditions and poor quality of medical services, health in prisons is a matter of immense human rights concern. However, the concept and the subsequent need to view prison health as an essential part of public health and as a strategic investment to reach persons and communities out of the primary health system ambit is poorly recognized in India. This article discusses the current status of prison healthcare in India and explores various potential opportunities the "prison window" provides. It also briefly deliberates on the various systematic barriers in the Indian prison health system and how these might be overcome to make primary healthcare trulyavailable for all.	DMID: 25090054	
55.	Bhavani GS(1), Shah H(2), Dalal AB(3), Shukla A(1), Danda S(4), Aggarwal S(5),Phadke SR(6), Gupta N(7), Kabra M(7), Gowrishankar K(8), Gupta A(9), Bhat M(10), Puri RD(11), Bijarnia-Mahay S(11), Nampoothiri S(12), Mohanasundaram KM(13),Rajeswari S(13), Kulkarni AM(14), Kulkarni ML(15), Ranganath P(3,)(5), RamadeviAR(16), Hariharan SV(17), Girisha KM(1).	PMID: 25988854 WOS:000361184100043	INT

	Novel and recurrent mutations in WISP3 and an atypical phenotype.	,	
	Nover and recurrent mutations in wises and an acypical phenotype.		
	Am J Med Genet A. 2015 Oct;167A(10):2481-4. doi: 10.1002/ajmg.a.37164. Epub 2015 May 18.		
	Author information: (1)Department of Medical Genetics, Kasturba Medical College, Manipal University, Manipal, India. (2)Department of Orthopedics, Pediatric Orthopedics Services, Kasturba Medical College, Manipal University, Manipal, India. (3)Diagnostics Division, Centre for DNA Fingerprinting and Diagnostics, Hyderabad, India. (4)Department of Clinical Genetics, Christian Medical College and Hospital, Vellore, India. (5)Department of Medical Genetics, Nizam's Institute of Medical Sciences, Hyderabad, India. (6)Department of Medical Genetics, Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow, India. (7)Department of Pediatrics, Division of Genetics, All India Institute of Medical Science, New Delhi, India. (9)Department of Medical Genetics, Kanchi Kamakoti Childs Trust Hospital, Chennai, Tamil Nadu, India. (9)Department of Pediatrics, Post Graduate Institute of Medical Education and Research, Chandigarh, India. (10)Centre for Human Genetics, Bangalore, India. (11)Centre of Medical Genetics, Sir Ganga Ram Hospital, New Delhi, India. (12)Department of Pediatric Genetics, Amrita Institute of Medical Sciences and Research Centre, Ponekkara, Cochin, Kerala, India. (13)Department of Rheumatology, Madras Medical College, Chennai, India. (14)Department of Pediatrics, Jagadguru Jayadeva Murugarajendra Medical College, Davangere, India. (15)Department of Clinical Genetics, Genetics Unit, Rainbow Children Hospital, Hyderabad, India. (17)Department of Pediatrics, Sree Avittom Thirunal Hospital, Government Medical College, Trivandrum, India.		
56.	Bhavani GS(1), Shah H(2), Shukla A(1), Gupta N(3), Gowrishankar K(4), Rao AP(5), Kabra M(3), Agarwal M(6), Ranganath P(7,)(8), Ekbote AV(9), Phadke SR(6), Kamath A(10), Dalal A(8), Girisha KM(1). Clinical and mutation profile of multicentric osteolysis nodulosis and Arthropathy	PMID: 26601801	INT
	Am J Med Genet A. 2015 Nov 24. doi: 10.1002/ajmg.a.37447.		
	(1)Department of Medical Genetics, Kasturba Medical College, Manipal University, Manipal, India. (2)Department of Orthopedics, Pediatric Orthopedics services, Kasturba Medical College, Manipal University, Manipal, India. (3)Division of Genetics, Department of Pediatrics, All India Institute of Medical Sciences, New Delhi, India. (4)Department of Medical Genetics, Kanchi Kamakoti Childs Trust Hospital, Chennai, Tamilnadu, India. (5)Manipal Hospital, Bangalore, India. (6)Department of Medical Genetics, Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow, India. (7)Department of Medical Genetics, Nizam's Institute of Medical Sciences, Hyderabad, India. (8)Division of Diagnostics, Centre for DNA Fingerprinting and Diagnostics, Hyderabad, India. (9)Department of Clinical Genetics, Christian Medical College and Hospital, Vellore, India. (10)Department of Community Medicine, Kasturba Medical College, Manipal University, Manipal, Karnataka, India.		
	Multicentric osteolysis nodulosis and arthropathy (MONA) is an infrequently described autosomal recessive skeletal dysplasia characterized by progressive osteolysis and arthropathy. Inactivating mutations in MMP2, encoding matrix metalloproteinase-2, are known to cause this disorder. Fifteen families with mutations in MMP2 have been reported in literature. In this study we screened		

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	thirteen individuals from eleven families for MMP2 mutations and identified eight mutations (five novel and three known variants). We characterize the clinical, radiographic and molecular findings in all individuals with molecularly proven MONA from the present cohort and previous reports, and provide a comprehensive review of the MMP2 related disorders. © 2015 Wiley Periodicals, Inc.		
57.	<ul> <li>Bhide RP(1), Solomons C(2), Devsahayam S(2), Tharion G(3).</li> <li>Exercise and gait training in persons with paraplegia and its effect on muscle properties.</li> <li>J Back Musculoskelet Rehabil. 2015 Dec 2;28(4):739-47. doi: 10.3233/BMR-140577.</li> <li>Author information: <ul> <li>(1)Clinical Fellow, Division of Physiatry, Department of Medicine, University of Toronto, Toronto, ON, Canada.</li> <li>(2)Department of Bioengineering, Christian Medical College, Vellore, Tamil Nadu, India.</li> <li>(3)Department of Physical Medicine and Rehabilitation, Christian Medical College, Vellore, Tamil Nadu, India.</li> </ul> </li> <li>BACKGROUND: Upper extremity strengthening and gait training with orthoses form a major part of inpatient rehabilitation of paraplegic patients in developing countries. This helps to overcome architectural barriers and limited wheelchair accessible environment in the community. OBJECTIVES: To evaluate the changes in physiological properties of the Triceps Brachii muscle following exercise training in individuals with paraplegia. The authors also explored the correlation between muscle property changes and gait parameters using orthoses in paraplegic persons. METHODS: Twelve subjects with complete paraplegia and neurological level of injury (NLI) from T9 to L1, underwent exercise training for a mean 64.1 ± 4.1 days. Triceps brachii was chosen as the sample muscle. Variables like arm circumference, time to fatigue and mean power frequency (MF) (surface EMG parameter), were recorded at the beginning and the end of training, during a sub-maximal isometric elbow extension. Non-parametric tests were used to assess statistical significance between the two recordings. Additionally, gait parameters, to determine impact of upper extremity strengthening on gait improvements in such patients. RESULTS: Statistically significant changes were noted in bilateral arm circumferences (p= 0.03) bilaterally and H drop, expressed as percentage (right p = 0.65, left p = 0.69). CONCLUSIONS: Exercise train</li></ul>	PMID: 25547234 WOS:000367258400015	INT
58.	Bhowmick K(1), Varghese VD(2). Retrograde Intramedullary Nailing for Recurrent Fracture in Congenital Pseudarthrosis of the Tibia. J Foot Ankle Surg. 2015 Sep 2. pii: S1067-2516(15)00311-7. doi: 10.1053/j.jfas.2015.07.009. [Epub ahead of print] Author information:	26342666	INT
	(1)Assistant Professor, Department of Orthopaedics, Christian Medical College,		

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	Vellore, India. Electronic address: kaushikbhowmick97@yahoo.co.in. (2)Assistant Professor, Department of Orthopaedics, Christian Medical College, Vellore, India.		
	We present the case of a 23-year-old male with congenital pseudarthrosis of the tibia, who had undergone treatment with Ilizarov ring fixation and had experienced 4 episodes of repeat fracture. He had associated type 1 neurofibromatosis, and his radiographs confirmed a type 6 Boyd's congenital pseudarthrosis of the left tibia, with concomitant arthritic ankle and subtalar joints. He was treated successfully with retrograde intramedullary nailing of the tibia and autologous bone grafting. At his final follow-up visit at 3 years postoperatively, he displayed complete union with no repeat fractures.		
59.	Bhowmick, K., Matthai, T., Nesaraj, J. and Jepegnanam, T. S. Claw Toe Deformity of the Foot due to Foreign Body Granuloma	PMID: 25956874	INT
	Foot Ankle Spec; 2015, May 8.		
	We present a case of dynamic claw deformity of the right third toe due to a foreign body granuloma adhering to the flexor digitorum longus (FDL) tendon at the level of the body of the metacarpal bone. The deformity was completely corrected after removal of the granuloma and lengthening of the FDL tendon. A 25-year-old woman presented with pain and claw deformity of the right third toe, which corrected with ankle plantar flexion. Ultrasound and magnetic resonance imaging suggested the presence of foreign body granuloma and Z plasty of the FDL tendon, there was complete correction of the claw. In the reported literature, claw deformity is seen with compartment syndrome or ankle fractures due to fixed length phenomenon or checkrein deformity of the FDL tendon due to a foreign body granuloma. LEVELS OF EVIDENCE: Therapeutic, Level IV, Case study. Address: Department of Orthopaedics, Christian Medical College, Vellore, Tamil Nadu, India kaushikbhowmick97@yahoo.co.in.		
60.	Bidchol AM(1), Dalal A(2), Trivedi R(3), Shukla A(1), Nampoothiri S(4), SankarVH(5), Danda S(6), Gupta N(7), Kabra M(7), Hebbar SA(8), Bhat RY(8), Matta D(2), Ekbote AV(6), Puri RD(9), Phadke SR(10), Gowrishankar K(11), Aggarwal S(12),Ranganath P(12), Sharda S(13), Kamate M(14), Datar CA(15), Bhat K(16), KamathN(16), Shah H(17), Krishna S(18), Gopinath PM(19), Verma IC(9), NagarajaramHA(20), Satyamoorthy K(19), Girisha KM(21). Recurrent and novel GLB1 mutations in India. Gene. 2015 Aug 10;567(2):173-81. doi: 10.1016/j.gene.2015.04.078. Epub 2015 Apr30.	PMID: 25936995 WOS:000356980200008	INT
	Author information: (1)Department of Medical Genetics, Kasturba Medical College, Manipal University, Manipal, Karnataka, India. (2)Diagnostics Division, Centre for DNA Fingerprinting and Diagnostics, Hyderabad, Telangana, India. (3)Laboratory of Computational Biology & Bioinformatics Facility, Centre for DNA Fingerprinting and Diagnostics, Hyderabad, Telangana, India; Graduate Studies, Manipal University, Manipal, Karnataka, India. (4)Department of Pediatric Genetics, Amrita Institute of Medical Sciences and Research Center, Kochi, AIMS Ponekkara, Kerala, India. (5)Genetic Clinic, Department of Pediatrics, SAT Hospital, Government Medical College, Thiruvananthapuram, Kerala, India. (6)Department of Clinical Genetics, Christian Medical College		

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	and Hospital, Vellore, Tamil Nadu, India. (7)Genetics Unit, Department of Pediatrics, All India Institute of Medical Sciences, New Delhi, India. (8)Department of Pediatrics, Kasturba Medical College, Manipal University, Manipal, Karnataka, India. (9)Center of Medical Genetics, Sir Ganga Ram Hospital, New Delhi, India. (10)Department of Medical Genetics, Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow, Uttar Pradesh, India. (11)Department of Medical Genetics, Nilds Trust Medical Research Foundation, Kanchi Kamakoti Childs Trust Hospital, Chennai, Tamil Nadu, India. (12)Diagnostics Division, Centre for DNA Fingerprinting and Diagnostics, Hyderabad, Telangana, India. (13)Post Graduate Institute of Medical Education and Research, Chandigarh, Punjab, India. (14)Pediatric Neurology, KLE University's J N Medical College, Belgaum, Karnataka, India. (15)Rare Genetic Disorder Clinic, Sahyadri Hospital, Pune, Maharashtra, India. (16)Department of Pediatrics, Kasturba Medical College, Mangalore, Manipal University, Karnataka, India. (17)Pediatric Orthopedics Services, Department of Orthopedics, Kasturba Medical College, Manipal, Manipal University, Karnataka, India. (18)Strand Life Sciences Pvt Ltd, Bengaluru, Karnataka, India. (20)Laboratory of Computational Biology & Bioinformatics Facility, Centre for DNA Fingerprinting and Diagnostics, Hyderabad, Telangana, India. (21)Department of Medical Genetics, Kasturba Medical College, Manipal University, Manipal, Karnataka, India. (21)Department of Medical Genetics, Kasturba Medical College, Manipal University, Manipal, Karnataka, India. (21)Department of Medical Genetics, Kasturba Medical College, Manipal University, Manipal, Karnataka, India. (21)Department of Medical Genetics, Kasturba Medical College, Manipal University, Manipal, Karnataka, India. (21)Department of Medical Genetics, Kasturba Medical College, Manipal University, Manipal, Karnataka, India. (21)Department of Medical Genetics, Kasturba Medical College, Manipal, Disiters posonal storage disorde		
61.	Blanchette V, Srivastava A, Gouw S, Feldman B, Hilliard P, Abad A, et al. A Core Set of Outcome Measurement Tools in Patients with Hemophilia A Systematic Review of the Measurement Properties. Haemophilia. 2015;21(6):E527-E.	WOS:000363508900026	INT
62.	<ul> <li>Blanchette VS(1), Srivastava A(2).</li> <li>Definitions in Hemophilia: Resolved and Unresolved Issues.</li> <li>Semin Thromb Hemost. 2015 Nov;41(8):819-25. doi: 10.1055/s-0035-1564800. Epub2015 Oct 19.</li> <li>Author information: <ul> <li>(1)Division of Hematology/Oncology, Department of Pediatrics, University of</li> </ul> </li> </ul>	PMID: 26479892 WOS:000364569900002	INT
	Toronto, Toronto, Canada. (2)Department of Hematology, Christian Medical College, Vellore, India.		

	Definitions of clinical events and end points of care are important for disease characterization as well as documentation of outcomes in clinical practice and trials. Until recently, the only definitions in hemophilia that were provided through an international scientific organization related to disease severity and levels of inhibitors. Recently, the Scientific and Standardization Committee (SSC) of the International Society on Thrombosis and Haemostasis, through its Factor VIII and IX subcommittee, published consensus definitions for several other aspects of hemophilia management, including classification of disease severity; inhibitors; bleeding (and rebleeding) into muscles and joints; target joints; different forms of factor replacement therapy; and response to therapy for joint bleeding and surgical hemostasis. These definitions should help to bring greater uniformity in the documentation of critical clinical events and laboratory data that are reported both from clinical trials as well as real-world practice. This article describes these definitions in greater detail than the SSC short report and also addresses some of the unresolved issues. Wide dissemination of these concepts and definitions and their acceptance by relevant leading scientific societies, drug regulators, industry, and patient organizations will go a long way in ensuring their acceptance and use globally. Thieme Medical Publishers 333 Seventh Avenue, New York, NY 10001, USA.		
63.	Blanchette, V., Srivastava, A., Gouw, S., Feldman, B. M., Hilliard, P., Abad, A., Doria, A. and Fischer, K. A core set of outcome measurement tools in patients with hemophilia: A systematic review of the measurement properties Journal of Thrombosis and Haemostasis; 2015, 13 ((Blanchette V.) Department of Paediatrics, University of Toronto, Toronto, Canada): 597 Background: In patients with haemophilia the evaluation of outcomes in all three domains of the ICF model (1. body structures and function, 2. activities and 3. participation) is critical to determine appropriate management for individual patients in clinical care and to compare the effects of treatment strategies. A large number of tools are available. In order to improve quality of clinical management and clinical research, we aim to reach consensus on a selection of instruments. These measurement properties of potential candidate tools is needed. Aims: We are in the process of performing a systematic review to assess the measurement properties of potential candidate outcome measurement instruments used in adult and pediatric patients with hemophilia. A secondary aim is to identify gaps in the current knowledge on measurement properties in order to direct further research. Methods: A survey among comprehensive haemophilia treatment centres identified a set of outcome measurement tools which are included in the systematic review; 1. Petterson/IPSG/HEAD US scales, WFH/ CPE/HJHS scores, 2. (Ped)HAL/FISH/COPM, 3. IPA, CAPE&PAC, Participation Scale and generic and disease specific HRQoL questionnaires. A systematic the methodological quality of the studies is being critically appraised using the QUADAS2 and COSMIN checklists. Measurement properties include reliability (internal consistency, reliability, measurement error), validity (content validity, construct validity, criterion validity) and responsiveness. The quality of the outcome measurement tools will be appraised by the rating proposed by the Cochrane Back Review Group. Results: The results and. Con	WOS:000356426903533	INT

64.	<ul> <li>Blobel CP(1), Haxaire C(1), Kalliolias GD(1), DiCarlo E(2), Salmon J(3), Srivastava A(4).</li> <li>Blood-Induced Arthropathy in Hemophilia: Mechanisms and Heterogeneity.</li> <li>Semin Thromb Hemost. 2015 Nov;41(8):832-7. doi: 10.1055/s-0035-1564445. Epub 2015 Oct 9.</li> <li>Author information: <ul> <li>(1)Arthritis and Tissue Degeneration Program, Hospital for Special Surgery, New York, New York.</li> <li>WOS:000364569900004. (3)Department of Medicine, Weill Cornell Medical College, New York, New York.</li> <li>(4)Department of Hematology, Christian Medical College, Vellore, Tamil Nadu, India.</li> </ul> </li> <li>Hemophilia A is an X-linked bleeding disorder that can be largely controlled by treatment with recombinant factor VIII. However, this treatment is only partially effective in preventing hemophilic arthropathy (HA), a debilitating degenerative joint disease that is caused by intra-articular bleeding events. The disease progression of HA has several distinct steps, beginning with hemophilic synovitis (HS), a hyperplasia of the synovial lining coupled with a neovascular response, followed by joint erosion with cartilage destruction and erosion of the underlying bone. The early stages of HA have certain features in common with arthritides such as rheumatoid arthritis (RA), whereas the later degenerative stages of HA have some similarities with osteoarthritis (OA). The main purpose of this review is to explore the similarities between HA with RA and OA and discuss how this information could potentially help understand the pathogenesis of HA and uncover new treatment opportunities. Thieme Medical Publishers 333 Seventh Avenue, New York, NY 10001, USA.</li> </ul>	PMID: 26451745 WOS:000364569900004	INT
65.	Boaz, R. J., John, N. T. and Kekre, N. Squamous cell carcinoma of suprapubic cystostomy tract in a male with locally advanced primary urethral malignancy Indian J Urol; 2015, 31 (1): 70-2 A 65-year-old man with stricture urethra underwent drainage of periurethral abscess and suprapubic cystostomy (SPC) placement. He presented to us 3 months later with a fungating ulcer at the site of perineal incision, the biopsy of which revealed squamous cell carcinoma (SCC). He underwent a total penile amputation, wide local excision scrotum, radical urethrocystoprostatectomy, ileal conduit with the en-bloc excision of the SPC tract. Histopathological examination of the suprapubic tract also revealed SCC. This is the first documented case of SCC of a suprapubic tract in the presence of primary urethral SCC. Address: Department of Urology, Christian Medical College, Vellore, Tamil Nadu, India.	PMID: 25624581 4300577: 4300577	NAT
66.	Boddu D, John R, Choudhary N, Mathew L. Genitourinary Rhabdomyosarcoma Our Experience Using Multimodal Therapy. Pediatric Blood & Cancer. 2015;62:S369-S.	WOS:000361247201374	INT
67.	Boddu, D., George, R., Nair, S., Bindra, M. and L, G. Mathew Hydroa vacciniforme-like lymphoma: a case report from India J Pediatr Hematol Oncol; 2015, 37 (4): e223-6 We report a 14-year-old Indian boy who presented with a history of weight loss, fever, facial edema, and a relapsing papulovesicular eruption on the face and limbs for 1 year. Histopathology of the skin showed dense lymphoid infiltrate from dermis to subcutaneous fat. Immunohistochemistry of this lymphoid infiltrate was CD3, CD8, CD56, CD57, Granzyme B, TIA, and Epstein Barr virus LMP1. The histopathology and immunohistochemistry were consistent with the diagnosis of hydroa vacciniforme-like T-cell lymphoma. The	PMID: 25072366 WOS:000353301600005	INT

PMID - PUBMED ID; PMCID - PUBMEDCENTRAL ID; WOS - WEB OF SCIENCE ID

	CINC SCIENTIFIC FOBLICATION FOR THE TEAK 2015 (JANDART TO DEC		
	child responded remarkably to oral steroids but relapsed on tapering doses. CHOP (Cyclophosphamide, Adriamycin, Vincristine, and Prednisolone) chemotherapy was initiated in view of systemic involvement to which he showed some response, however, the disease relapsed again. He then had a rapidly progressive disease and ultimately succumbed to his illness. This is the first case of hydroa vacciniforme-like T-cell lymphoma being reported from this subcontinent. Address Department of *Pediatrics †Dermatology ‡Pathology, Christian Medical College, Vellore, India		
68.	Carey, R. A., Nathaniel, S. D., Das, S. and Sudhakar, S. Cavernous sinus syndrome due to skull base metastasis: A rare presentation of hepatocellular carcinoma Neurol India; 2015, 63 (3): 437-9 Address: Department of Medicine, Christian Medical College, Vellore, Tamil Nadu, India.	PMID: 26053823 WOS:000356043800029	NAT
69.	Chacko R(1), Kumar S(2), Paul A(2), Arvind(3). Spontaneous Bone Regeneration After Enucleation of Large Jaw Cysts: A Digital Radiographic Analysis of 44 Consecutive Cases. J Clin Diagn Res. 2015 Sep;9(9):ZC84-9. doi: 10.7860/JCDR/2015/13394.6524. Epub 2015 Sep 1. Author information: (1)Professor and Head, Department of Dental and Oral Surgery, Christian Medical College , Vellore, Tamil Nadu, India . (2)Assistant Professor, Department of Dental and Oral Surgery, Christian Medical College , Vellore, Tamil Nadu, India . (3)Fellowship Registrar, Department of Dental and Oral Surgery, Christian Medical College , Vellore, Tamil Nadu, India . (3)Fellowship Registrar, Department of Dental and Oral Surgery, Christian Medical College , Vellore, Tamil Nadu, India . PURPOSE: This study evaluated the healing in cystic defect of the jaw to substantiate our understanding of spontaneous bone healing after enucleation of jaw cysts subjectively and with analysis of digital postoperative panoramic radiographs. MATERIALS AND METHODS: Fourty four consecutive patients reporting to the Department of Dental and Oral Surgery, during the period between 2008-2012 having maxillary and mandibular cysts treated by either surgical enucleation or by marsupialization followed by enucleation were evaluated for subsequent bone formation at the site of cystectomy defect by subjective clinical examination along with digital radiographic examination. Postoperative clinical and radiographic examination swere performed at 6,9,12, and 24 months. Bone regeneration was evaluated by reduction (average size of 58.16mm). Twenty years of follow-up with all the patients having 6 months follow-up. The maximum size of the cystic pathology was 150.40mm and minimum of 14.73mm at the time of presentation (average size of 58.16mm). Twenty patients were diagnosed with odontogenic keratocyst, with one patient having multiple OKC associated with Gorlin Goltz Syndrome, 17 patients had dentigerous cyst, 5 had Radicular cyst; solitary bone cyst and globulomaxillary cyst	PMID: 26501020	NAT

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70.	Chacko, B., Peter, J. V., Tharyan, P., John, G. and Jeyaseelan, L.	PMID: 25586462	INT
	Pressure-controlled versus volume-controlled ventilation for acute respiratory failure due to acute lung injury	WOS:000349688600029	
	(ALI) or acute respiratory distress syndrome (ARDS)		
	Cochrane Database of Systematic Reviews. 2015(1). doi: 10.1002/14651858.CD008807.pub2.		
	BACKGROUND: Acute lung injury (ALI) and acute respiratory distress syndrome (ARDS) account for one-		
	quarter of cases of acute respiratory failure in intensive care units (ICUs). A third to half of patients will die in		
	the ICU, in hospital or during follow-up. Mechanical ventilation of people with ALI/ARDS allows time for the		
	lungs to heal, but ventilation is invasive and can result in lung injury. It is uncertain whether ventilator-		
	related injury would be reduced if pressure delivered by the ventilator with each breath is controlled, or		
	whether the volume of air delivered by each breath is limited. OBJECTIVES: To compare pressure-controlled		
	ventilation (PCV) versus volume-controlled ventilation (VCV) in adults with ALI/ARDS to determine whether		
	PCV reduces in-hospital mortality and morbidity in intubated and ventilated adults. SEARCH METHODS: In		
	October 2014, we searched the Cochrane Central Register of Controlled Trials (CENTRAL) (2014, Isssue 9),		
	MEDLINE (1950 to 1 October 2014), EMBASE (1980 to 1 October 2014), the Latin American Caribbean Health		
	Sciences Literature (LILACS) (1994 to 1 October 2014) and Science Citation Index-Expanded (SCI-		
	EXPANDED) at the Institute for Scientific Information (ISI) Web of Science (1990 to 1 October 2014), as well		
	as regional databases, clinical trials registries, conference proceedings and reference lists. SELECTION		
	CRITERIA: Randomized controlled trials (RCTs) and quasi-RCTs (irrespective of language or publication		
	status) of adults with a diagnosis of acute respiratory failure or acute on chronic respiratory failure and		
	fulfilling the criteria for ALI/ARDS as defined by the American-European Consensus Conference who were		
	admitted to an ICU for invasive mechanical ventilation, comparing pressure-controlled or pressure-controlled		
	inverse-ratio ventilation, or an equivalent pressure-controlled mode (PCV), versus volume-controlled		
	ventilation, or an equivalent volume-controlled mode (VCV). DATA COLLECTION AND ANALYSIS: Two review		
	authors independently screened and selected trials, assessed risk of bias and extracted data. We sought		
	clarification from trial authors when needed. We pooled risk ratios (RRs) for dichotomous data and mean		
	differences (MDs) for continuous data with their 95% confidence intervals (CIs) using a random-effects		
	model. We assessed overall evidence quality using the GRADE (Grades of Recommendation, Assessment,		
	Development and Evaluation) approach. MAIN RESULTS: We included three RCTs that randomly assigned a		
	total of 1089 participants recruited from 43 ICUs in Australia, Canada, Saudi Arabia, Spain and the USA. Risk		
	of bias of the included studies was low. Only data for mortality and barotrauma could be combined in the		
	meta-analysis. We downgraded the quality of evidence for the three mortality outcomes on the basis of		
	serious imprecision around the effect estimates. For mortality in hospital, the RR with PCV compared with		
	VCV was 0.83 (95% CI 0.67 to 1.02; three trials, 1089 participants; moderate-quality evidence), and for		
	mortality in the ICU, the RR with PCV compared with VCV was 0.84 (95% CI 0.71 to 0.99; two trials, 1062		
	participants; moderate-quality evidence). One study provided no evidence of clear benefit with the		
	ventilatory mode for mortality at 28 days (RR 0.88, 95% CI 0.73 to 1.06; 983 participants; moderate-quality		
	evidence). The difference in effect on barotrauma between PCV and VCV was uncertain as the result of		
	imprecision and different co-interventions used in the studies (RR 1.24, 95% CI 0.87 to 1.77; two trials,		
	1062 participants; low-quality evidence). Data from one trial with 983 participants for the mean duration of		
	ventilation, and from another trial with 78 participants for the mean number of extrapulmonary organ failures		
	that developed with PCV or VCV, were skewed. None of the trials reported on infection during ventilation or		
	quality of life after discharge. AUTHORS' CONCLUSIONS: Currently available data from RCTs are insufficient		
	to confirm or refute whether pressure-controlled or volume-controlled ventilation offers any advantage for		
	people with acute respiratory failure due to acute lung injury or acute respiratory distress syndrome. More		
		•	•

studies including a larger number of people given PCV and VCV may provide reliable evidence on which more firm conclusions can be based.       Address: Medical Intensive Care Unit, Christian Medical College & Hospital, Vellore, India.         71.       Chadha, M. S., Potdar, V. A., Saha, S., Koul, P. A., Broor, S., Dar, L., Chawla-Sarkar, M., Biswas, D., Gunasekaran, P., Abraham, A. M., Shrikhande, S., Jain, A., Anukumar, B., Lal, R. B. and Mishra, A. C. Dynamics of influenza seasonality at sub-regional levels in India and implications for vaccination timing Plos One. 2015;10(5). doi: 10.1371/journal.pone.0124122.       PMID: 25938466       WOS:000353943000017         Background: Influenza surveillance is an important tool to identify emerging/reemerging strains, and defining seasonality. We describe the distinct patterns of circulating strains of the virus in different areas in India from 2009 to 2013. Methods: Patients in ten cities presenting with influenza like illness in out-patient departments of dispensaries/hospitals and hospitalized patients with severe acute respiratory infections were enrolled. Nasopharangeal swabs were tested for influenza viruses by real-time RT-PCR, and subtyping; antigenic and genetic analysis were carried out using standard assays. Results: Of the 44,127 ILI/SARI cases, 6,193 (14.0%) were positive for influenza viruse. Peaks of influenza were observed during July-September coinciding with baren (newth Alberter (newth Pathere for the pathere).	INT
Address: Medical Intensive Care Unit, Christian Medical College & Hospital, Vellore, India.       PMID: 25938466         71.       Chadha, M. S., Potdar, V. A., Saha, S., Koul, P. A., Broor, S., Dar, L., Chawla-Sarkar, M., Biswas, D., Gunasekaran, P., Abraham, A. M., Shrikhande, S., Jain, A., Anukumar, B., Lal, R. B. and Mishra, A. C. Dynamics of influenza seasonality at sub-regional levels in India and implications for vaccination timing Plos One. 2015;10(5). doi: 10.1371/journal.pone.0124122.       PMID: 25938466 WOS:000353943000017         Background: Influenza surveillance is an important tool to identify emerging/reemerging strains, and defining seasonality. We describe the distinct patterns of circulating strains of the virus in different areas in India from 2009 to 2013. Methods: Patients in ten cities presenting with influenza like illness in out-patient departments of dispensaries/hospitals and hospitalized patients with severe acute respiratory infections were enrolled. Nasopharangeal swabs were tested for influenza viruses by real-time RT-PCR, and subtyping; antigenic and genetic analysis were carried out using standard assays. Results: Of the 44,127 ILI/SARI cases, 6,193 (14.0%) were positive for influenza virus. Peaks of influenza were observed during July-September coinciding	INT
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with monsoon in cities Delhi and Lucknow (north), Pune (west), Allaphuza (southwest), Nagpur (central),	
Kolkata (east) and Dibrugarh (northeast), whereas Chennai and Vellore (southeast) revealed peaks in	
October-November, coinciding with the monsoon months in these cities. In Srinagar (Northern most city at	
34(degrees)N latitude) influenza circulation peaked in January-March in winter months. The patterns of	
circulating strains varied over the years: whereas A/H1N1pdm09 and type B co-circulated in 2009 and 2010,	
H3N2 was the predominant circulating strain in 2011, followed by circulation of A/H1N1pdm09 and influenza	
B in 2012 and return of A/H3N2 in 2013. Antigenic analysis revealed that most circulating viruses were close	
to vaccine selected viral strains. Conclusions: Our data shows that India, though physically located in	
northern hemisphere, has distinct seasonality that might be related to latitude and environmental factors.	
While cities with temperate seasonality will benefit from vaccination in September-October, cities with peaks	
in the monsoon season in July-September will benefit from vaccination in April-May. Continued surveillance is	
critical to understand regional differences in influenza seasonality at regional and sub-regional level,	
especially in countries with large latitude span. Address: 1National Institute of Virology, Pune, India.	
2Centers for Disease Control and Prevention, Atlanta, USA.	
3Sheri-Kashmir Institute of Medical Sciences, Srinagar, India.	
4All India Institute of Medical Sciences, New Delhi, India.	
5National Institute of Cholera and Enteric Diseases, Kolkata, India.	
6Regional Medical Research Centre, Dibrugarh, India.	
7King Institute of Preventive Medicine & Research, Chennai, India.	
8Christian Medical College, Vellore, India.	
9Indira Gandhi Medical College, Nagpur, India.	
10King George Medical University (KGMU), Lucknow, India.	
11National Institute of Virology, Alappuzha, India.	
72.         Chakraborty N(1).         PMID: 26612150	NAT
Cardiopulmonary resuscitation (CPR) in out-ofhospital cardiac arrest: Man or WOS:000364348800007	
machine?	

	Natl Med J India. 2015 Mar-Apr;28(2):77-8.		
	Author information: (1)Department of Emergency Medicine Christian Medical College Vellore Tamil Nadu nilanchal83@gmail.com. Comment on Lancet. 2015 Mar 14;385(9972):947-55.		
73.	Chakraborty N, Abhilash K. Cardiopulmonary resuscitation (CPR) in out-of-hospital cardiac arrest: Man or machine? (vol 28, pg 77, 2015). National Medical Journal of India. 2015;28(3):160 Erratum The name of K.P.P. Abhilash was inadvertently missed out in the selected summary entitled 'Cardiopulmonary resuscitation (CPR) in out-of-hospital cardiac arrest: Man or machine?' published on pages 77–8 in The National Medical Journal of India (Vol. 28, No. 2, 2015). Please read the names of the authors as Nilanchal Chakraborty and K.P.P. Abhilash, Department of Emergency Medicine, Christian Medical College, Vellore, Tamil Nadu; kppabhilash@gmail.com. We regret the error.	WOS:000368217700022	NAT
74.	Chakravarthy, P. K., Chandy, T. T. and Singh, G. Placement of lumbar subarachnoid drain in the sitting position: a technical difficulty J Neurosurg Anesthesiol; 2015, 27 (1): 79 Address: Departments of *Neuroanesthesia daggerAnesthesia, CMC, Vellore, India.	PMID: 24781669	INT
75.	Chanana L(1), Jegaraj MA(1), Kalyaniwala K(1), Yadav B(1), Abilash K(1). Clinical profile of non-traumatic acute abdominal pain presenting to an adult emergency department. J Family Med Prim Care. 2015 Jul-Sep;4(3):422-5. doi: 10.4103/2249-4863.161344. Author information: (1)Department of Emergency, Christian Medical College, Vellore, Tamil Nadu, India. BACKGROUND: Abdominal pain is one of the most common reasons for presenting tothe emergency depatment (ED) and the etiology is varied. MATERIALS AND METHODS: This prospective observational study was conducted in alarge ED of a tertiary care center in India. All patients older than 15 years andpresenting with non-traumatic abdominal pain to the ED from May 2012 to October2012 were recruited and the demographic characteristics, diagnosis and outcomewere analyzed. RESULTS: The study cohort included 264 patients over a 6 month period. More than half (55.6%) were aged between 15 and 40 years. There was a male predominance (56.8%). Majority of the patients (76.9%) presented with abdominal pain of less than 72 hour duration. The pain was sudden in onset in 54.9% of patients. Dull type was the most common character of pain (36%) followed by colicky type (22.3%). The most common site of pain was the lower abdomen (45.8%). Upper abdominal pain as seen in 26.9% and the pain was generalized in 27.3% of patients. The common causes were uretericcolic (16.3%), urinary tract infection (12.5%), acute pancreatitis (11%), acute	PMC4535107, 26288785	NAT

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	CINE SCIENTINE TO DEICATION TOK THE TEAK 2015 (JANDAKT TO DEC		
	appendicitis (10.6%) and acute gastritis (8%). More than half (51.9%) discharged from ED and 37% of cases were managed by the emergency physicians. Surgical intervention was required in 25.8% of patients. The mortality rate was 2.3%. CONCLUSIONS: Abdominal pain is a common ED symptom and clinicians must considermultiple diagnoses, especially those that require immediate intervention to limitmorbidity and mortality.		
76.	Chandramouleeswaran, S., Edwin, N. C., Victor, P. J. and Tharyan, P. The emergency physician's assessment of suicide risk in intentional self-poisoning using the modified SAD PERSONS scale versus standard psychiatric evaluation in a general hospital in South India: a cross-sectional study Tropical Doctor. 2015;45(1):21-6. doi: 10.1177/0049475514553985 INTRODUCTION: The reliable identification, by emergency physicians, of those with intentional self-poisoning at risk of repeating attempts is crucial, particularly in countries with a shortfall of mental health professionals. METHODS: This cross-sectional study of intentional self-poisoning in India compared an emergency physician's assessment for the need for psychiatric referral, using the modified SAD PERSONS Scale (MSPS) as an interview guide, with a standard psychiatric interview. RESULTS: In 67 consecutive adults with intentional self-poisoning, MSPS cut-off scores of 5 or more best approximated psychiatric assessments for the need for psychiatric referral (positive likelihood ratio 2.9, 95% confidence interval [CI] 0.8-10.2; negative likelihood ratio 0.5, 95% CI 0.3-0.8). CONCLUSIONS: MSPS-guided emergency physicians' assessments after self-poisoning showed modest concordance with psychiatric assessments of suicide-risk. Concordance with psychiatric assessments may improve if risk factors prevalent in different settings are identified and incorporated in the MSPS. Address: Assistant Professor, Department of Psychiatry, Christian Medical College, Vellore, Tamil Nadu, India susmit1984@yahoo.co.in. Assistant Professor, Department of Acute Care Medicine, Christian Medical College, Vellore, Tamil Nadu, India. Professor, Department of Critical Care Medicine, Christian Medical College, Vellore, Tamil Nadu, India. Professor, Department of Psychiatry, Prof BV Moses Centre for Evidence-Informed Health Care and Health	PMID: 25358507 WOS:000347412700006	INT
77.	Policy, Christian Medical College, Vellore, Tamil Nadu, India. Chandran, J., Agarwal, I. and Rose, W. Klebsiella splenic abscess complicating Plasmodium vivax malaria Pediatr Infect Dis J; 2015, 34 (5): 551	PMID: 25876099 WOS:000353344500032	INT
78.	Address: Department of Pediatrics, Christian Medical College, Vellore, Tamil Nadu, India. Chandran, R., Alexander, M., Naina, P. and Balraj, A. Auditory neuropathy spectrum disorder with Brown-Vialetto-Van Laere syndrome: challenges in hearing rehabilitation J Laryngol Otol; 2015, 129 (5): 504-8 BACKGROUND: Brown-Vialetto-Van Laere syndrome is a rare neurological disorder characterised by pontobulbar palsy and sensorineural hearing loss. Hearing rehabilitation continues to be a challenge because the exact lesion site is unknown. CASE REPORT: We examined the clinical and audiological profiles of a case series comprising four siblings with Brown-Vialetto-Van Laere syndrome who had decreased hearing and poor speech discrimination. Audiological investigations revealed normal otoacoustic emissions with absent auditory brainstem responses and middle-ear reflexes in sensorineural hearing loss, suggestive of auditory neuropathy spectrum disorder. CONCLUSION: The sensorineural hearing loss in Brown-Vialetto-Van Laere	PMID: 25994385 WOS:000355310500022	INT

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	syndrome patients is a retrocochlear pathology resembling auditory neuropathy spectrum disorder, with the lesion being most probably of post-synaptic origin. Early cochlear implantation along with high-dose riboflavin represents a possible rehabilitation therapy. However, further research is needed to confirm this. This report emphasises the need for a thorough neurological evaluation of auditory neuropathy spectrum		
	disorder patients.		
	Address: Audiovestibular Unit,Department of ENT,Christian Medical College,Vellore,India.		
	Department of Neurosciences, Christian Medical College, Vellore, India.		
79.	Chandy, T. T. and Singh, G.	PMID: 25948925	NAT
77.	Alternatives to GlideRite((R)) for flexometallic endotracheal tube insertion with GlideScope((R))	4411858: 4411858	INAT
	J Anaesthesiol Clin Pharmacol; 2015, 31 (2): 274-5	411050. 4411050	
	Address: Department of Anaesthesiology, Christian Medical College, Vellore, Tamil Nadu, India.		
80.	Chapla, A., Mruthyunjaya, M. D., Asha, H. S., Varghese, D., Varshney, M., Vasan, S. K., Venkatesan, P.,	PMID: 25041077	INT
00.	Nair, V., Mathai, S., Paul, T. V. and Thomas, N.	WOS:000350982900011	
	Maturity onset diabetes of the young in India - a distinctive mutation pattern identified through targeted		
	next-generation sequencing		
	Clin Endocrinol (Oxf); 2015, 82 (4): 533-42		
	OBJECTIVE: To establish and utilize a Next-Generation Sequencing (NGS)-based strategy to screen for		
	maturity onset diabetes of the young (MODY) gene mutations in subjects with early-onset diabetes.		
	PATIENTS AND METHODS: Maturity onset diabetes of the young (MODY) genetic testing was carried out in 80		
	subjects of Asian Indian origin with young onset diabetes to identify mutations in a comprehensive panel of		
	ten MODY genes. A novel multiplex polymerase chain reaction (PCR)-based target enrichment was		
	established, followed by NGS on the Ion Torrent Personal Genome Machine (PGM). All the mutations and rare		
	variants were confirmed by Sanger sequencing. RESULTS: We identified mutations in 11 (19%) of the 56		
	clinically diagnosed MODY subjects and seven of these mutations were novel. The identified mutations		
	include p.H241Q, p.E59Q, c162G>A 5' UTR in NEUROD1, p.V169I cosegregating with c.493-4G>A and c.493-20C>T, p.E271K in HNF4A, p.A501S in HNF1A, p.E440X in GCK, p.V177M in PDX1, p.L92F in HNF1B		
	and p.R31L in PAX4 genes. Interestingly, two patients with NEUROD1 mutation were also positive for the		
	p.E224K mutation in PDX1 gene. These patients with coexisting NEUROD1-PDX1 mutations showed a marked		
	reduction in glucose-induced insulin secretion. All 24 subjects who had not met the clinical criteria of MODY		
	were negative for the mutations. To the best of our knowledge, this is the first report of PDX1, HNF1B,		
	NEUROD1 and PAX4 mutations from India. CONCLUSIONS: Multiplex PCR coupled with NGS provides a rapid,		
	cost-effective and accurate method for comprehensive parallelized genetic testing of MODY. When compared		
	to earlier reports, we have identified a higher frequency and a novel digenic mutation pattern involving		
	NEUROD1 and PDX1 genes.		
	Address: Department of Endocrinology, Diabetes and Metabolism, Christian Medical College, Vellore, India.		
81.	Chaturvedi, S. and Robinson, L. A.	PMID: 24777535	INT
	Slit2-Robo signaling in inflammation and kidney injury	WOS:000349972900003	
	Pediatr Nephrol; 2015, 30 (4): 561-6		
	Acute kidney injury is an increasingly common global health problem and is associated with severe morbidity		
	and mortality. In addition to facing high mortality rates, the survivors of acute kidney injury are at increased		
	risk of developing chronic kidney disease and end-stage renal disease. Renal ischemia-reperfusion injury		
	(IRI) is the most common cause of acute kidney injury, and results from impaired delivery of oxygen and		
	nutrients to the kidney. Massive leukocyte influx into the post-ischemic kidney is one of the hallmarks of IRI.		
	The recruited leukocytes exacerbate tissue damage and, if uncontrolled, initiate the progressive changes that		
	lead to renal fibrosis and chronic kidney disease. Early on, recruitment and activation of platelets promotes		
	microthrombosis in the injured kidney, further exacerbating kidney damage. The diversity, complexity, and		

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	multiplicity of pathways involved in leukocyte recruitment and platelet activation make it extremely challenging to control these processes, and past efforts have met with limited success in human trials. A generalized strategy to inhibit infiltration of inflammatory leukocytes and platelets, thereby reducing inflammation and injury, may prove to be more beneficial. In this review, we summarize recent findings demonstrating that the neuronal guidance cues, Slit and Roundabout (Robo), prevent the migration of multiple leukocyte subsets towards diverse inflammatory chemoattractants, and have potent anti-platelet functions in vitro and in vivo. These properties uniquely position Slit2 as a novel therapeutic that could be used to prevent acute kidney injury associated with IRI. Address: Division of Nephrology, Department of Paediatrics, Christian Medical College, Vellore, Tamil Nadu, India.		
82.	Chavakula, P. R., Benjamin, S. J., Abraham, A., Londhe, V., Jeyaseelan, V. and Mathews, J. E. Misoprostol versus Foley catheter insertion for induction of labor in pregnancies affected by fetal growth restriction Int J Gynaecol Obstet; 2015, 129 (2): 152-5 OBJECTIVE: To compare 25mug of vaginal misoprostol with a Foley catheter for induction of labor (IOL) for fetal growth restriction. METHODS: A randomized controlled trial was conducted in a tertiary center in South India. Women with fetal growth restriction (n=100) were randomized to be induced with three doses of vaginal misoprostol (25mug) every 6hours or with an intracervical Foley catheter, inserted 12hours before rupture of membranes, and oxytocin if needed. The primary outcome was uterine tachysystole with fetal cardiotocography abnormalities. Secondary outcomes pertained to effectiveness, complications, and patient satisfaction. RESULTS: One woman in the misoprostol group and none in the Foley catheter group had uterine tachysystole. The duration of labor from IOL to delivery was similar in both groups (P=0.416). More women in the misoprostol group had a vaginal delivery within 12hours (26.1% versus 5.6%; P=0.005). Women induced with misoprostol were less likely to deliver by lower-segment cesarean delivery (15.2% versus 29.6%; P=0.168) and to require oxytocin augmentation (60.9% versus 85.2%; P=0.007). Complications were few in both group. CONCLUSION: Few women had uterine tachysystole with cardiotocography abnormalities. Vaginal misoprostol at 25mug was more effective than a Foley catheter for IOL in fetal growth restriction. Clinical Trials Registry India:CTRI/2014/02/004411. Address: Department of Obstetrics and Gynecology, Christian Medical College, Vellore, Tamil Nadu, India. Department of Obstetrics and Gynecology, Christian Medical College, Vellore, Tamil Nadu, India. Department of Obstetrics and Gynecology, Christian Medical College, Vellore, Tamil Nadu, India. Electronic address: og5@cmcvellore.ac.in.	PMID: 25661322 WOS:000353604100011	INT
83.	Checkley, W., White, A. C., Jr., Jaganath, D., Arrowood, M. J., Chalmers, R. M., Chen, X. M., Fayer, R., Griffiths, J. K., Guerrant, R. L., Hedstrom, L., Huston, C. D., Kotloff, K. L., Kang, G., Mead, J. R., Miller, M., Petri, W. A., Jr., Priest, J. W., Roos, D. S., Striepen, B., Thompson, R. C., Ward, H. D., Van Voorhis, W. A., Xiao, L., Zhu, G. and Houpt, E. R. A review of the global burden, novel diagnostics, therapeutics, and vaccine targets for cryptosporidium Lancet Infect Dis; 2015, 15 (1): 85-94 Cryptosporidium spp are well recognised as causes of diarrhoeal disease during waterborne epidemics and in immunocompromised hosts. Studies have also drawn attention to an underestimated global burden and suggest major gaps in optimum diagnosis, treatment, and immunisation. Cryptosporidiosis is increasingly identified as an important cause of morbidity and mortality worldwide. Studies in low-resource settings and high-income countries have confirmed the importance of cryptosporidium as a cause of diarrhoea and childhood malnutrition. Diagnostic tests for cryptosporidium infection are suboptimum, necessitating	PMID: 25278220 PMCID:PMC4401121 WOS:000347857900031	INT

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specialised tests that are often insensitive. Antigen-detection and PCR improve sensitivity, and multiplexed antigen detection and molecular assays are underused. Therapy has some effect in healthy hosts and no proven efficacy in patients with AIDS. Use of cryptosporidium genomes has helped to identify promising therapeutic targets, and drugs are in development, but methods to assess the efficacy in vitro and in animals are not well standardised. Partial immunity after exposure suggests the potential for successful vaccines, and several are in development; however, surrogates of protection are not well defined. Improved methods for propagation and genetic manipulation of the organism would be significant advances. Address: Program in Global Disease Epidemiology and Control, Department of International Health, Johns Hopkins University, Baltimore, MD, USA; Fogarty International Center, National Institutes of Health, Bethesda, MD, USA. Electronic address: wcheckl1@jhmi.edu. Division of Infectious Diseases, University of Texas Medical Branch, Galveston, TX, USA. Program in Global Disease Epidemiology and Control, Department of International Health, Johns Hopkins University, Baltimore, MD, USA. Centers for Disease Control and Prevention, Atlanta, GA, USA. National Cryptosporidium Reference Unit, Public Health Wales, Swansea, UK. Department of Medical Microbiology and Immunology, Creighton University, Omaha, NE, USA. Environmental Microbial Food Safety Laboratory, USDA, Beltsville, MD, USA. Department of Public Health and Community Medicine, Tufts University, Boston, MA, USA. Division of Infectious Diseases, University of Vermont, Burlington, VT, USA. Division of Infectious Diseases, University of Vermont, Burlington, VT, USA. Division of Infectious Diseases, University of Vermont, Burlington, VT, USA. Division of Infectious Disease and Tropical Pediatrics, Department of Pediatrics, Center for Vaccine Development, University of Maryland School of Medicine, Baltimore, MD, USA. Department of Biology, University of Penn		
Chendamarai, E., Ganesan, S., Alex, A. A., Kamath, V., Nair, S. C., Nellickal, A. J., Janet, N. B., Srivastava, V., Lakshmi, K. M., Viswabandya, A., Abraham, A., Aiyaz, M., Mullapudi, N., Mugasimangalam, R., Padua, R. A., Chomienne, C., Chandy, M., Srivastava, A., George, B., Balasubramanian, P. and Mathews, V. Comparison of newly diagnosed and relapsed patients with acute promyelocytic leukemia treated with arsenic trioxide: insight into mechanisms of resistance PLoS ONE; 2015, 10 (3): e0121912 There is limited data on the clinical, cellular and molecular changes in relapsed acute promyeloytic leukemia (RAPL) in comparison with newly diagnosed cases (NAPL). We undertook a prospective study to compare NAPL and RAPL patients treated with arsenic trioxide (ATO) based regimens. 98 NAPL and 28 RAPL were enrolled in this study. RAPL patients had a significantly lower WBC count and higher platelet count at diagnosis. IC bleeds was significantly lower in RAPL cases (P=0.022). The ability of malignant promyelocytes	PMID: 25822503 PMCID:PMC 4378855 WOS:000352134700136	INT

84.

	to concentrate ATO intracellularly and their in-vitro IC50 to ATO was not significantly different between the two groups. Targeted NGS revealed PML B2 domain mutations in 4 (15.38%) of the RAPL subset and none were associated with secondary resistance to ATO. A microarray GEP revealed 1744 genes were 2 fold and above differentially expressed between the two groups. The most prominent differentially regulated pathways were cell adhesion (n=92), cell survival (n=50), immune regulation (n=74) and stem cell regulation (n=51). Consistent with the GEP data, immunophenotyping revealed significantly increased CD34 expression (P=0.001) in RAPL cases and there was in-vitro evidence of significant microenvironment mediated innate resistance (EM-DR) to ATO. Resistance and relapse following treatment with ATO is probably multi-factorial, mutations in PML B2 domain while seen only in RAPL may not be the major clinically relevant cause of subsequent relapses. In RAPL additional factors such as expansion of the leukemia initiating compartment along with EM-DR may contribute significantly to relapse following treatment with ATO based regimens. Address: Department of Haematology, Christian Medical College, Vellore, India. Department of Biochemistry, Christian Medical College, Vellore, India. Cytogenetics Unit, Christian Medical College, Vellore, India. Genotypic Technology, Bengaluru, India. UMR 1131 Institut d'Hematologie, Hopital Saint Louis, I avenue Claude Vellefaux, 75010 Paris, France.		
85.	<ul> <li>Cherian AJ(1), Gowri M(2), Ramakant P(3), Paul TV(4), Abraham DT(3), Paul MJ(3).</li> <li>The Role of Magnesium in Post-thyroidectomy Hypocalcemia.</li> <li>World J Surg. 2015 Nov 17.</li> <li>(1)Department of Endocrine Surgery, Christian Medical College and Hospital, Vellore, Tamil Nadu, India. anish@cmcvellore.ac.in. (2)Department of Biostatistics, Christian Medical College and Hospital, Vellore, Tamil Nadu, India. (3)Department of Endocrine Surgery, Christian Medical College and Hospital, Vellore, Tamil Nadu, India. (4)Department of Endocrinology, Christian Medical College and Hospital, Vellore, Tamil Nadu, India.</li> <li>BACKGROUND: The purpose of this study was to determine the prevalence of hypomagnesemia in patients undergoing thyroidectomy and evaluate the relationship of hypomagnesemia with transient and severe hypocalcemia.</li> <li>MATERIALS AND METHODS: This was a prospective observational study of 50 patients undergoing thyroidectomy. Blood samples were collected pre- and postoperatively for calcium, albumin, magnesium, phosphorous and parathormone (PTH). Signs, symptoms of hypocalcemia and volume of intravenous fluids used perioperatively were documented. The statistical analysis was performed using STATA I/C 10.1.</li> <li>RESULTS: Preoperatively, twelve patients (24 %) had hypomagnesemia and one (2 %) hypocalcemia. On the first postoperative day, hypomagnesemia was seen in 70 % and hypocalcemia in 30 %. A similar trend was observed in the fall and rise of postoperative calcium and magnesium values (p = 0.41). Severe hypocalcemia was present in three patients (6 %). All three patients had a very low postoperative PTH (&lt;2 pg/ml). Among them, two patients (66 %) had hypomagnesemia and their hypocalcemia responded to intravenous magnesium correction. Significant risk factors for postoperative hypocalcemia include a higher volume of fluid used perioperatively and low postoperative PTH (&lt;8 pg/ml) (p = 0.01 and 0.03, respectively). CONCLUSION: Preoperative hypomagnesemia (24 %) was prevalent</li></ul>	PMID: 26578317	INT

	postoperatively. The cause of hypocalcemia post-thyroidectomy in this study is mainly a factor of parathyroid function and fluid status. Severe hypocalcemia is a rare event, and hypomagnesemia is associated in the majority of these patients. The role of magnesium correction to alleviate severe hypocalcemia needs to be further studied.		
86.	<ul> <li>Cherian KE(1), Jebasingh FK(1), Kapoor N(1), Paul TV(1).</li> <li>Klinefelter syndrome with low gonadotropin levels.</li> <li>BMJ Case Rep. 2015 Dec 29;2015. pii: bcr2015213333. doi: 10.1136/bcr-2015-213333.</li> <li>(1)Department of Endocrinology, Christian Medical College, Vellore, Tamil Nadu,India.</li> <li>Klinefelter syndrome is usually characterised by the presence of a eunuchoid body habitus and testes that are usually small and firm, with low testosterone, and elevated luteinising hormone and follicle-stimulating hormone levels, consistent with hypergonadotropic hypogonadism. Low levels of gonadotropins in karyotypically proven cases are not expected, they are extremely rare occurrences. We report a case of a patient who was diagnosed to have Klinefelter syndrome (47 XXY) with low gonadotropin levels. The rest of his anterior pituitary hormonal profile was normal with no lesions in the pituitary gland on imaging. He was continued on androgen replacement therapy.</li> </ul>	PMID: 26715140 [PubMed - in process]	INT
87.	Cherian, K. E., Shetty, S., Kapoor, N. and Paul, T. V. Carcinoma pancreas and fibrocalcific pancreatic diabetes: a dual association for weight loss BMJ Case Rep; 2015, 2015 Address: Department of Endocrinology, Christian Medical College, Vellore, Tamil Nadu, India.	PMID: 25858940	INT
88.	Cherian, L. M., Varghese, L., Panchatcharam, B. S., Parmar, H. V. and Varghese, G. M. Nasal conidiobolomycosis: a successful treatment option for localized disease J Postgrad Med; 2015, 61 (2): 143-4 Address: Department of Otorhinolaryngology, Christian Medical College, Vellore, Tamil Nadu, India.	PMID: 25766357 WOS:000351740300023	NAT
89.	Chezi Ganzel1*, Vikram Mathews, DM2, Kamran Alimoghaddam, MD3, Ardeshir Ghavamzadeh, MD3, Deborah Kuk, ScM4*, Sean Devlin, PhD4*, Hailin Wang5*, Daniel Weisdorf, MD6, Dan Douer, MD7, Jacob M. Rowe, MD1,8, Arnon Nagler, MD, MSc9, Mohamad Mohty10, Martin S. Tallman, MD11, Jordi Estev12* and Mei-Jie Zhang13* Autologous Transplant, and Not ATO Alone, Remains the Preferred Therapy for Relapsed APL: A Report from the CIBMTR, EBMT and Two Specialized Centers. Blood. 2015;126(23) - https://ash.confex.com/ash/2015/webprogram/Paper80077.html Author Address: Hematology, Shaare Zedek Medical Center, Jerusalem, Israel 2Department of Haematology, Christian Medical College, Vellore, India 3Shariati Hospital, Tehran, Iran 4Department of Biostatistics and Epidemiology, Memorial Sloan Kettering Cancer Center, New York, NY 5CIBMTR Statistical Center, Minneapoiis 6Division of Hematology, Oncology and Transplantation, University of Minnesota, Minneapolis, MN 7Department of Medicine, Memorial Sloan Kettering Cancer Center, New York, NY 8Department of Hematology and Bone Marrow Transplantation, Rambam Health Care Campus, Haifa, Israel 9Hematology Division, Chaim Sheba Medical Center and Tel Aviv University, Tel-Hashomer, Ramat-Gan, Israel	WOS:000368019003052	INT

	10Saint-Antoine Hospital and University Pierre & Marie Curie, Paris, France 11Memorial Sloan-Kettering Cancer Center, New York, NY 12Hospital Clinic, Institut d' investigacions biomediques August Pi Sunyer, Barcelona, Spain 13Medical College of Wisconsin, Milwaukee		
90.	Chichra A, Nair A, Rachana A. Attitude towards mentally ill patients among doctors in Non- Psychiatry Specialties- A Cross-sectional observational study. Indian Journal of Psychiatry. 2015;57(5):S87-S.	WOS:000366494300299.	NAT
	Author Address: 1 Christian Medical College, Vellore, India, chichra@gmail.com, aishwarya86nair@gmail.com, <u>arunrdr@gmail.com</u> Keywords:attitude, stigma, barriers, mental health, doctors, selfadministered questionnaire Background: Objectives: To assess attitude of doctors in non- psychiatry specialities towards mentally ill patients. Background: Stigma and prejudice are important barriers towards health seeking for mental illness. The same factors may play a role in the quality of medical attention the mentally ill receive from medical professionals. Studies done elsewhere have shown a trend towards greater acceptance of the mentally ill, whether this is seen in India as well is not clear. Methods: A modified version of validated self-administered questionnaire used by the NHS in Britain was used to assess attitude towards mentally ill. The attitude questionnaire had ten questions. Each question was scored on 5-point Likert scale (strongly agree to strongly disagree). Certain questions were reverse scored to compute total attitude score. Total score for attitude questionnaire ranged from 10 to 50. A score of 30 denoted average neutral attitude. Interns, casualty medical officers and postgraduate registrars from Christian Medical College, Vellore, Tamil Nadu constituted the sample frame. Data was collected using semi structured questionnaire and was entered in EpiData. Statistical analysis including descriptive and bivariate analysis was done using SPSS version 16. Results: Fifty non-psychiatry doctors participated in the study of which 47 percent were men and 53 percent were women. There were 9 (18 percent) interns and the rest were either postgraduates or casualty medical officers. The mean age of study participants was 25.9 years. The mean attitude total score was 37.68 (standard deviation: 4.19). Shapiro-Wilk Test had significant score of 0.298, showing normal distribution of attitude total score. ANOVA showed no statistically significant relation between attitude and history of mental il		
91.	Chiramel, G. K., Keshava, S. N., Moses, V., Mammen, S., David, S. and Sen, S. Percutaneous sclerotherapy of congenital slow-flow vascular malformations of the orbit Cardiovasc Intervent Radiol; 2015, 38 (2): 270-9 PURPOSE: This manuscript describes the clinical features, imaging findings, treatment details, and short-term outcomes of a series of congenital slow-flow vascular malformations. METHODS: This was a prospective study of congenital slow-flow vascular malformations involving the orbital region treated at a single institution with percutaneous sclerotherapy. RESULTS: Ten patients presented during the study period, comprising eight venous malformations, one lymphatic malformation, and one veno-lymphatic malformation. Nine patients underwent percutaneous sclerotherapy under digital subtraction angiography guidance, of which three developed marked rise in intraocular pressure requiring lateral canthotomy. The treatments were performed in the presence of an ophthalmologist who measured the intraorbital pressure during and after the procedure. On follow-up, some of the patients required repeat sessions of sclerotherapy. All patients had improvement of symptoms on follow up after the procedure. CONCLUSION: Congenital slow-flow vascular	PMID: 25148921 WOS:000351155100003	INT

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malformations of the orbital region are rare lesions that should be treated using a multidisciplinary approach. Monitoring of the intraorbital pressure is required both during and after the procedure to decide about the need for lateral canthotomy to reduce the transiently increased intraorbital pressure. Address: Department of Radiology, Christian Medical College, Vellore, 632004, Tamil Nadu, India, gkchiramel@gmail.com.		
92. Chitra C, Kumar D, Shakti L, Diana SR, Balaji V(1). Technical and interpretative issues of fosfomycin susceptibility testing.	PMID: 26470984 WOS:000363279900035	NAT
Indian J Med Microbiol. 2015 Oct-Dec;33(4):611-2. doi: 10.4103/0255-0857.167338.		
(1)Department of Clinical Microbiology, Christian Medical College, Vellore, TamilNadu, India.		
<ul> <li>93. Chittawar PB(1), Kamath MS.</li> <li>Review of nonsurgical/minimally invasive treatments and open myomectomy for uterine fibroids.</li> <li>Curr Opin Obstet Gynecol. 2015 Dec;27(6):391-7. doi:</li> </ul>	PMID: 26536205 WOS:000366371200001	INT
Author information: (1)aBansal Hospital, Shahpura, Bhopal, Madhya Pradesh bReproductive Medicine Unit, Christian Medical College, Vellore, Tamil Nadu, India.		
PURPOSE OF REVIEW: The main purpose of this review is to collect the most recent evidence with regards to safety and effectiveness of the nonsurgical and minimally invasive treatment options for uterine fibroids. RECENT FINDINGS: Among the nonsurgical options, uterine artery embolization (UAE), and in eligible patients, magnetic resonance-guided high-intensity focused ultrasound (MRgFUS) are emerging as effective alternatives to surgical options for treatment of symptomatic fibroids. MRgFUS is comparable to UAE, and appears to be a cost effective treatment option, especially in older women, although long-term data are awaited. The transvaginal route for radiofrequency ablation is a promising new nonsurgical alternative, which needs to be studied in larger trials		
to establish its safety and efficacy. The laparoscopic myomectomy results in less postoperative pain, reduced febrile morbidity, and shorter hospital stay when compared with open laparotomy. The newer robotic approach is comparable to traditional laparoscopic technique in short surgical outcomes but is associated with higher costs. Hysteroscopic myoma resection is an effective surgical intervention for submucous fibroids and prior misoprostol use can help in reducing cervical lacerations. SUMMARY: UAE and MRgFUS can be offered as an alternative nonsurgical option foreligible women with symptomatic fibroids. Laparoscopic myomectomy remains a safe and effective surgical option with advantage of less postoperative pain andfaster recovery compared with open laparotomy for women who wish to retain their fertility options.		
94. Collinet-Adler S(1), Babji S(2), Francis M(2), Kattula D(2), Premkumar PS(2), Sarkar R(2), Mohan VR(2), Ward H(3), Kang G(2), Balraj V(2), Naumova EN(4). Environmental Factors Associated with High Fly Densities and Diarrhea in Vellore,India.	PMID: 26116684 PMC4551260 WOS:000359259000040	INT
Appl Environ Microbiol. 2015 Sep 1;81(17):6053-8. doi: 10.1128/AEM.01236-15. Epub2015 Jun 26.		
Author information:		

	<ul> <li>(1)Tufts Medical Center, Boston, Massachusetts, USA. (2)Christian Medical College, Vellore, India. (3)Tufts Medical Center, Boston, Massachusetts, USA Christian Medical College, Vellore, India. (4)Christian Medical College, Vellore, India Tufts University, Medford, Massachusetts, USA elena.naumova@tufts.edu.</li> <li>Diarrhea causes significant morbidity and mortality in Indian children under 5 years of age. Flies carry enteric pathogens and may mediate foodborne infections. In this study, we characterized fly densities as a determinant of infectious diarrhea in a longitudinal cohort of 160 urban and 80 rural households with 1,274 individuals (27% under 5 years of age) in Vellore, India. Household questionnaires on living conditions were completed at enrollment. Fly abundance was measured during the wet and dry seasons using fly ribbons placed in kitchens. PCRs for enteric bacteria, viruses, and protozoa were performed on 60 fly samples. Forty-three (72%) fly samples were positive for the following pathogens: norovirus (50%), Salmonella spp. (46.7%), rotavirus (6.7%), and Escherichia coli (6.7%). Ninety-one episodes of diarrhea occurred (89% in children under 5 years of age). Stool pathogens isolated in 24 of 77 (31%) samples included E. coli, Shigella spp., Vibrio spp., Giardia, Cryptosporidium, and rotavirus. Multivariate log-linear models were used to explore the relationships between diarrhea and fly densities, controlling for demographics, hygiene, and human-animal interactions. Fly abundance was 6 times higher in rural than urban sites (P &lt; 0.0001). Disposal of garbage close to homes and rural living were significant risk factors for high fly densities. The presence of latrines was protective against high fly densities and diarrhea. The adjusted relative risks of diarrheal episodes and duration of diarrhea, associated with fly density at the 75th percentile, were 1.18 (95% confidence interval [CI], 1.03 to 1.34) and 1.15 (95% CI, 1.02 to 1.29), respectively. Flies harbored enteric pathogens, incl</li></ul>		
95.	Crow YJ, Chase DS, Lowenstein Schmidt J, Szynkiewicz M, Forte GM, Gornall HL, Oojageer A, Anderson B, Pizzino A, Helman G, Abdel-Hamid MS, Abdel-Salam GM, Ackroyd S, Aeby A, Agosta G, Albin C, Allon-Shalev S, Arellano M, Ariaudo G, Aswani V, Babul-Hirji R, Baildam EM, Bahi-Buisson N, Bailey KM, Barnerias C, Barth M, Battini R, Beresford MW, Bernard G, Bianchi M, Billette de Villemeur T, Blair EM, Bloom M, Burlina AB, Carpanelli ML, Carvalho DR, Castro-Gago M, Cavallini A, Cereda C, Chandler KE, Chitayat DA, Collins AE, Sierra Corcoles C, Cordeiro NJ, Crichiutti G, Dabydeen L, Dale RC, D'Arrigo S, De Goede CG, De Laet C, De Waele LM, Denzler I, Desguerre I, Devriendt K, Di Rocco M, Fahey MC, Fazzi E, Ferrie CD, Figueiredo A, Gener B, Goizet C, Gowrinathan NR, Gowrishankar K,Hanrahan D, Isidor B, Kara B, Khan N, King MD, Kirk EP, Kumar R, Lagae L,Landrieu P, Lauffer H, Laugel V, La Piana R, Lim MJ, Lin JP, Linnankivi T, Mackay MT, Marom DR, Marques Lourenço C, McKee SA, Moroni I, Morton JE, Moutard ML,Murray K, Nabbout R, Nampoothiri S, Nunez-Enamorado N, Oades PJ, Olivieri I, Ostergaard JR, Pérez-Dueñas B, Prendiville JS, Ramesh V, Rasmussen M, Régal L, Ricci F, Rio M, Rodriguez D, Roubertie A, Salvatici E, Segers KA, Sinha GP, Soler D, Spiegel R, Stödberg TI, Straussberg R, Swoboda KJ, Suri M, Tacke U, Tan TY, te Water Naude J, Wee Teik K, Thomas MM, Till M, Tonduti D, Valente EM, Van Coster RN, van der Knaap MS, Vassallo G, Vijzelaar R, Vogt J, Wallace GB, Wassmer E, Webb HJ, Whitehouse WP, Whitney RN, Zaki MS, Zuberi SM, Livingston JH, Rozenberg F, Lebon P, Vanderver A, Orcesi S, Rice GI.	PMID: 25604658 PMCID: PMC4382202 WOS:000348843600007.	INT

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	Am J Med Genet A. 2015 Feb;167A(2):296-312. doi:10.1002/ajmg.a.36887. Epub 2015 Jan 16.		
	Aicardi-Goutières syndrome is an inflammatory disease occurring due to mutations in any of TREX1, RNASEH2A, RNASEH2B, RNASEH2C, SAMHD1, ADAR or IFIH1. We report on 374 patients from 299 families with mutations in these seven genes. Most patients conformed to one of two fairly stereotyped clinical profiles; either exhibiting an in utero disease-onset (74 patients; 22.8% of all patients where data were available), or a post-natal presentation, usually within the first year of life (223 patients; 68.6%), characterized by a sub-acute encephalopathy and a loss of previously acquired skills. Other clinically distinct phenotypes were also observed; particularly, bilateral striatal necrosis (13 patients; 3.6%) and non-syndromic spastic paraparesis (12 patients; 3.4%). We recorded 69 deaths (19.3% of patients with follow-up data). Of 285 patients for whom data were available, 210 (73.7%) were profoundly disabled, with no useful motor, speech and intellectual function. Chilblains, glaucoma, hypothyroidism, cardiomyopathy, intracerebral vasculitis, peripheral neuropathy, bowel inflammation and systemic lupus erythematosus were seen frequently enough to be confirmed as real associations with the Aicardi-Goutieres syndrome phenotype. We observed a robust relationship between mutations in all seven genes with increased type I interferon activity in cerebrospinal fluid and serum, and the increased expression of interferon-stimulated gene transcripts in peripheral blood. We recorded a positive correlation between the level of cerebrospinal fluid interferon activity assayed within one year of disease presentation and the degree of subsequent disability. Interferon-stimulated gene transcripts remained high in most patients, indicating an ongoing disease process. On the basis of substantial morbidity and mortality, our data highlight the urgent need to define coherent treatment strategies for the phenotypes associated with mutations in the Aicardi-Goutières syndrome-related genes. Our findings also make it clear that a window of		
96.	relevant to the majority of affected patients and indicate that the assessment of type I interferon activity might serve as a useful biomarker in future clinical trials. © 2015 Wiley Periodicals, Inc. D. Danda1, D. Truong2, M. Shaw3, C. Quang3, K. Koelsch2,3,4, B. T. Kurien2,3,4, H. Bagavant2, U.	WOS:000353401300134	INT
90.	Deshmukh2 & R. H. Scofield2,3,4 1	WOS:000353401300134	
	Ro Negative, La Positive Subset of Primary Sjo <sup>~</sup> gren's Syndrome is a Reality Scandinavian Journal of Immunology. 2015;81(5):395		
	http://www.sicca.org/isss2015/resources/Scandinavian-Journal-of-Immunology-May-2015.pdf		
	Christian Medical College, Vellore, India, 2 Oklahoma Medical Research Foundation, Oklahoma City, Oklahoma, USA, 3 University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma, USA, and 4 Department of Veterans Affairs, Oklahoma City, Oklahoma, USA		
	Purpose: Twenty-nine sera from 503 primary Sjo¨gren's syndrome patients were identified as anti-Ro60 (anti-SSA) negative and anti-La (anti-SSB) positive by immunodiffusion, line immunoassays and multiplex bead assays. We hypothesize that a significant portion of these are falsely negative for anti-Ro60. Materials: Twenty-nine sera from primary Sjo¨gren's syndrome patients, fulfilling four AECG criteria, were tested for the presence of antibodies directed against La and Ro60 autoantigen. Anti-La was detected on bovine La treated with or without DNAase and RNAase (to check for false positivity, since anti-La can bind DNA and RNA). Anti-Ro60 antibodies in the sera were detected using HEp- 2000 substrate (in which cells are transfected with human Ro60) and HEp-2 substrate. Anti-Ro60 and Ro-52 were also tested by in vitro transcription/translation/immunoprecipitation assay. Results: Out of the 29 sera, 25 were unequivocally		

	CMC SCIENTING FOBLICATION FOR THE TEAK 2013 (JANDART TO DEC	mbeng	
	negative on HEp-2000 (1:40 dilution). Four samples were clearly found to be Ro60 positive with a speckled pattern and three of the four continued to be positive up to 1:320 dilution, as against only two positive samples on HEp-2 at 1:40 dilution. This finding suggests false negativity for Ro60 exists in a small fraction (14 percent) of primary Sjogren's syndrome patients. However, all the samples were negative for Ro60 and Ro52 by in vitro transcription/ translation/immunoprecipitation assay. Conclusions: Contrary to our hypothesis, we found only a small fraction of Ro negative, La positive sera to show positive HEp-2000 pattern. This suggests that a subset of primary Sjogren's syndrome is probably a true entity with Ro60 negativity and La positivity. Thus, we have confirmed that about 6% of our primary Sjo" gren's syndrome cohort were anti-Ro negative and anti-La positive.		
97.	<ul> <li>Dalal AB(1), Ranganath P(2), Phadke SR(3), Kabra M(4), Danda S(5), Puri RD(6), Sankar VH(7), Gupta N(4), Patil SJ(8), Mandal K(3), Tamhankar P(9), Aggarwal S(2), Agarwal M(3).</li> <li>Prenatal diagnosis in India is not limited to sex selection.</li> <li>Genet Med. 2015 Jan;17(1):88. doi: 10.1038/gim.2014.149.</li> <li>Author information: <ul> <li>(1)Diagnostics Division, Centre for DNA Fingerprinting and Diagnostics, Hyderabad, India.</li> <li>(2)Department of Medical Genetics, Nizam's Institute of Medical Sciences, Hyderabad, India.</li> <li>(3)Department of Medical Genetics, Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow, India.</li> <li>(4)Division of Genetics, Department of Pediatrics, All India Institute of Medical Sciences, New Delhi, India.</li> <li>(5)Department of Clinical Genetics, Christian Medical College and Hospital, Vellore, India.</li> <li>(6)Centre of Medical Genetics, Sir Ganga Ram Hospital, New Delhi, India.</li> <li>(7)Department of Pediatrics, SAT Hospital, Government Medical College, Trivandrum, Kerala, India.</li> <li>(8)Narayana Hrudayalaya Hospital, Bengaluru, India.</li> <li>(9)ICMR Genetic Research Centre, Mumbai, India.</li> </ul> </li> <li>Comment in Genet Med. 2015 Jan;17(1):89-90.</li> <li>Comment on Genet Med. 2014 Jun;16(6):425-32.</li> </ul>	PMID: 25356971 WOS:000347744900012	NAT
98.	<ul> <li>Daley P(1), Jagannathan V(2), John KR(3), Sarojini J(2), Latha A(2), Vieth R(4), Suzana S(2), Jeyaseelan L(2), Christopher DJ(2), Smieja M(5), Mathai D(6).</li> <li>Adjunctive vitamin D for treatment of active tuberculosis in India: a randomised, double-blind, placebocontrolled trial.</li> <li>Lancet Infect Dis. 2015 May;15(5):528-34. doi: 10.1016/S1473-3099(15)70053-8. Epub 2015 Apr 8.</li> <li>Author information: <ul> <li>(1)Memorial University, St John's, NL, Canada. Electronic address: <a href="mailto:pkd336@mun.ca">pkd336@mun.ca</a>. (2)Christian Medical College, Vellore, India. (3)SRM Medical College and Research Centre, Chennai, India. (4)University of Toronto, ON, Canada. (5)McMaster University, ON, Canada. (6)Apollo Institute of Medical Sciences and Research, Hyderabad, India.</li> </ul> </li> <li>Comment in Lancet Infect Dis. 2015 May;15(5):489-90.</li> </ul>	PMID: 25863562 WOS:000353670600038	INT

BMJ. 2015;350:h2099.

	5. 51 2010/0000120001		
	BACKGROUND: Vitamin D has immunomodulatory effects that might aid clearance of mycobacterial infection. We aimed to assess whether vitamin D supplementation would reduce time to sputum culture conversion in patients with active tuberculosis. METHODS: We did this randomised, double-blind, placebo-controlled, superiority trial at 13 sites in India. Treatment-naive patients who were sputum-smear positive, HIV negative, and had pulmonary tuberculosis were randomly assigned (1:1), with centrally labelled, serially numbered bottles, to receive standard active tuberculosis treatment with either supplemental high-dose oral vitamin D3(four doses of 2·5 mg at weeks 0, 2, 4, and 6) or placebo. Neither the patients nor the clinical and laboratory investigators and personnel were aware of treatment assignment. The primary efficacy outcome was time to sputum culture conversion. Analysis was by modified intention to treat. This trial is registered with ClinicalTrials.gov, number NCT00366470. FINDINGS: Between Jan 20, 2010, and Aug 23, 2011, we randomly assigned 247 participants to the vitamin D group (n=121) or the placebo group (n=126), of whom 211 participants (n=101 and n=110, respectively) were included in the primary efficacy analysis. Median time to culture conversion in the vitamin D group was 43·0 days (95% CI 33·3-52·8) versus 42·0 days (33·9-50·1) in the placebo group (log-rank p=0·95). Three (2%) patients died in the vitamin D group and one (1%) patient died in the placebo group; no death was considered attributable to the study intervention. No patients had hypercalcaemia. INTERPRETATION: Our findings show that vitamin D supplementation did not reduce time to sputum culture conversion. Further studies should investigate the role of vitamin D in prevention or reactivation of tuberculosis infection. FUNDING: Dalhousie University and Infectious Diseases Training and Research Centre. Copyright © 2015 Elsevier Ltd. All rights reserved.		
99.	<ul> <li>Dangi AD(1), Kodiatte TA(2), Kumar S(1), Kekre NS(1).</li> <li>A rare cause of anuria: Bilateral synchronous isolated mid-ureteric tubercular lesions.</li> <li>Indian J Urol. 2015 Oct-Dec;31(4):360-2. doi: 10.4103/0970-1591.155801.</li> <li>(1)Department of Urology, Christian Medical College and Hospital, Vellore, Tamil Nadu, India. (2)Department of Pathology, Christian Medical College and Hospital, Vellore, Tamil Nadu, India. (2)Department of Pathology, Christian Medical College and Hospital, Vellore, Tamil Nadu, India.</li> <li>A young female presenting with right flank pain, fever, raised creatinine and bilateral hydronephrosis was treated with antibiotics elsewhere, with presumptive diagnosis of bilateral pyelonephritis. She had partial relief in symptoms and her creatinine level showed an improvement. Three months later during evaluation at our center she had anuria, hypertensive crisis and pulmonary edema which were managed with emergency bilateral percutaneous nephrostomies. Cross-sectional imaging and ureteroscopy suggested bilateral synchronous intramural mid-ureteric lesions as underlying pathology. Histopathology of the ureteric segments during laparotomy revealed caseating granulomas suggestive of tuberculosis. This clinical presentation has not been previously described in urinary tuberculosis.</li> </ul>	PMID: 26604451	NAT
100.	Daniel Sathiya, S. S., Pari Selvakumar, P., Singh, M., Abraham, A. and Koshy, S. Pseudotumour of the Mandible Associated with von Willebrand's Disease J Maxillofac Oral Surg; 2015, 14 (Suppl 1): 417-20 Patients with bleeding disorders may occasionally present with pseudotumours. Most commonly these occur in the soft tissues and long bones, and are very rare in the maxillofacial region. We present the clinical details and management of a pseudotumour of the mandible in a 12-year-old girl with von Willebrand's	PMID: 25848151 4379308: 4379308	NAT

	disease.		
101.	Address: Christian Medical College, Vellore, India. Das MK(1), Bishwal SC(1), Das A(1), Dabral D(1), Badireddy VK(1), Pandit B(2), Varghese GM(3), Nanda RK(1). Deregulated tyrosine-phenylalanine metabolism in pulmonary tuberculosis patients. J Proteome Res. 2015 Apr 3;14(4):1947-56. doi: 10.1021/acs.jproteome.5b00016.Epub 2015 Mar 2.	PMID: 25693719 WOS:000352463300027	INT
	Author information: (1) <sup>†</sup> Immunology Group, International Centre for Genetic Engineering and Biotechnology (ICGEB), Aruna Asaf Ali Road, New Delhi 110067, India. (2) <sup>‡</sup> National Institute of Biomedical Genomics, Kalyani, West Bengal 741251, India. (3)§Department of Medicine, Christian Medical College, Vellore, Tamil Nadu 632004, India. Metabolic profiling of biofluids from tuberculosis (TB) patients would help us in understanding the disease		
	pathophysiology and may also be useful for the development of novel diagnostics and host-directed therapy. In this pilot study we have compared the urine metabolic profiles of two groups of subjects having similar TB symptoms and categorized as active TB (ATB, n = 21) and non-TB (NTB, n= 21) based on GeneXpert test results. Silylation, gas chromatography mass spectrometry, and standard chemometric methods were employed to identify the important molecules and deregulated metabolic pathways. Eleven active TB patients were followed up on longitudinally for comparative urine metabolic profiling with healthy controls (n = 11). A set of 42 features qualified to have a variable importance parameter score of > 1.5 of a partial least-squares discriminate analysis model and fold change of > 1.5 at p value < 0.05 between ATB and NTB. Using these variables, a receiver operating characteristics curve was plotted and the area under the curve was calculated to be 0.85 (95% CI: 0.72-0.96). Several of these variables that represent norepinephrine, gentisic acid, 4-hydroxybenzoic acid, hydroquinone, and 4-hydroxyhippuric acid are part of the tyrosine-phenylalanine metabolic pathway. In the longitudinal study we observed a treatment-dependent trend in the urine metabolome of follow-up samples, and subjects declared as clinically cured showed similar metabolic profile as those of asymptomatic healthy subjects. The deregulated tyrosine-phenylalanine axis reveals a potential target for diagnostics and intervention in TB.		
102.	<ul> <li>Das S(1), Chandramohan A(2), Rami Reddy JK(3), Mukhopadhyay S(4), Kumar RM(4), Isiah R(3), John S(3), Oommen R(5), Jeyaseelan V(6).</li> <li>Role of conventional and diffusion weighted MRI in predicting treatment response after low dose radiation and chemotherapy in locally advanced carcinoma cervix.</li> <li>Radiother Oncol. 2015 Nov;117(2):288-93. doi: 10.1016/j.radonc.2015.10.006. Epub 2015 Oct 20.</li> <li>Author information: <ul> <li>(1)Department of Radiation Oncology, Christian Medical College Vellore, India. Electronic address: saikat@cmcvellore.ac.in.</li> <li>(2)Department of Radiation Oncology, Christian Medical College Vellore, India. Electronic address: saikat@cmcvellore.ac.in.</li> <li>(2)Department of Radiation Oncology, Christian Medical College Vellore, India.</li> <li>(3)Department of Radiation Oncology, Christian Medical College Vellore, India.</li> <li>(4)Department of General Pathology, Christian Medical College Vellore, India.</li> <li>(5)Department of Nuclear Medicine, Christian Medical College Vellore, India.</li> </ul> </li> </ul>	PMID: 26475249 WOS:000370460400016	INT
	BACKGROUND AND PURPOSE: To assess the diagnostic performance of conventional and diffusion weighted (DWI) magnetic resonance imaging (MRI) in predicting response in locally advanced cervical cancer.		

	CINC SCIENTIFIC POBLICATION FOR THE TEAK 2013 (JANDART TO DECL		
	MATERIALS AND METHODS: Total 24 patients with stage IIB-IIIB squamous cell carcinoma cervix were treated with initial two cycles of paclitaxel and carboplatin and concurrent low dose radiotherapy prior to standard chemoradiation. Response was assessed clinically and radiologically after 3weeks of initial treatment. Volumetric and functional parameters derived from conventional and diffusion weighted MRI, due to treatment were measured. RESULTS: Significant reduction of GTV was noted in MRI (54cm(3) vs. 11cm(3), p<0.01) and DWI (44cm(3) vs. 6cm(3), p<0.01, $\Delta ADC=0.49 \times 10(-3)mm(2)/sec$ , p<0.01)after treatment. Tumor volume reduction rate (TVRR) in DWI was significantly higher in pathological good responders (p=0.03). In this group both mean post treatment apparent diffusion coefficient (ADC) value and $\Delta ADC$ were significantly higher (p=0.01 and p=0.03). ADC was a good predictor for pathological response (area under receiver operating characteristic curve (ROC) 0.814). CONCLUSION: TVRR (DWI) and $\Delta ADC$ can be used as a predictor of early pathological response. Complete response based on DWI, could be a useful predictor of long term disease control. Copyright © 2015 Elsevier Ireland Ltd. All rights reserved.		
103.	<ul> <li>Das S(1), Subhashini J(2), Rami Reddy JK(2), KantiPal S(2), Isiah R(2), OommenR(3).</li> <li>Low-dose fractionated radiation and chemotherapy prior to definitive chemoradiation in locally advanced carcinoma of the uterine cervix: Results of a prospective phase II clinical trial.</li> <li>Gynecol Oncol. 2015 Aug;138(2):292-8. doi: 10.1016/j.ygyno.2015.05.020. Epub 2015May 23.</li> <li>Author information: <ul> <li>(1)Department of Radiation Oncology, Christian Medical College Vellore, India. Electronic address: saikat@cmcvellore.ac.in.</li> <li>(2)Department of Radiation Oncology, Christian Medical College Vellore, India.</li> </ul> </li> <li>BACKGROUND: We investigated the feasibility of neoadjuvant low-dose radiation and chemotherapy with paclitaxel and carboplatin (LDCRT) before radical chemoradiation (CRT) and assessed the feasibility, efficacy, and response rate to such a regimen. METHODS: This is a single-arm phase II trial of 24 patients, with locally advanced squamous cell carcinoma of the cervix (stage IIB-IIIB). Patients received low-dose fractionated radiotherapy, carboplatin (AUC×5) and paclitaxel (175 mg/m(2)), three weekly for two cycles followed by CRT. The primary end point was overall and disease-free survival. RESULTS: Mean age of the patients at diagnosis was 50 years; Radiological complete or partial response rate was 40% and 60%, respectively, post-LDCRT. The median follow-up was 30 months (24-36 months). Both overall and progression-free survivals at 2.5 years were 84%. Grade 3/4 toxicities were 24% haematological toxicity during LDCRT and 46% during CRT (hematological: 42%, non-hematological: 4%). CONCLUSION: A good response rate is achieved by low-dose radiation and chemotherapy with carboplatin and paclitaxel followed by radical CRT. This treatment regimen is feasible and effective as evidenced by the acceptable toxicity and 84% local control at 2.5 years.</li> </ul>	PMID:26013695 WOS:000359178400013	INT
104.	<ul> <li>Das S(1), Winston A B(2), Sukumaran D(3), Kumar A(4), Fx MS(5), Prasad J(6).</li> <li>Drug prescribing pattern in pregnancy in a secondary care hospital in south India: a retrospective study.</li> <li>Trop Doct. 2015 Oct 7. pii: 0049475515609841. [Epub ahead of print]</li> <li>Author information: <ul> <li>(1)PG Registrar, Department of Pharmacology, Christian Medical College, Vellore, India saibaldas123@gmail.com. (2)Assistant Professor, Department of Pharmacology, Christian Medical College,</li> </ul> </li> </ul>	PMID: 26450430	INT

<ul> <li>Vellore, India. (3)PG Registrar, Department of Pharmacology, Christian Medical College, Vellore, India.</li> <li>(4)Lecturer, Department of Pharmacology, Christian Medical College, Vellore, India. (5)Associate Professor, Department of Pharmacology, Christian Medical College, Vellore, India. (5)Associate Professor, Department of Pharmacology, Christian Medical College, Vellore, India. (6)Professor, Department of Community Health and Development, Christian Medical College, Vellore, India.</li> <li>BACKGROUND: In pregnancy drug treatment presents a special concern due potential teratogenic effects and physiologic alterations in mother. This retrospective study was performed to evaluate the drug prescribing pattern in pregnancy among pregnant women in a secondary care hospital in India. MATERIALS AND METHODS: This cross-sectional retrospective study was done for 3 months using pre-formatted forms and patient's records. RESULTS: A total of 326 drugs, including 46 different types of drugs, were prescribed to</li> </ul>	
606 gravid women. Eight different types of medications were started before being seen at the antenatal clinic. Most of these drugs fall under US FDA pregnancy categories B and C and few under categories A, X and N. CONCLUSION: This study reflects a good, safe and rational medication practice during pregnancy in various common disorders in a secondary care hospital and can be cited as an example to similar primary and secondary care hospitals. © The Author(s) 2015.	
105.Das, S., Singh, R., George, D., Vijaykumar, T. S. and John, S. Radiobiological response of cervical cancer cell line in low dose region: Evidence of low dose hypersensitivity (HRS) and induced radioresistance (IRR) Journal of Clinical and Diagnostic Research; 2015, 9 (6): XC05-XC08 Background: Purpose of the present study was to examine the response of cervical cancer cell line (HeLa cell line) to low dose radiation using clonogenic assay and mathematical modeling of the low dose response by Joinernulls induced repair model. Materials and Methods: Survival of HeLa cells following exposure to single and fractionated low doses of (gamma) (gamma)-ray, 6 MV, and 15 MV photon was measured by clonogenic assay. Results: HeLa cell line demonstrated marked low dose region ((alpha)s and (alpha)r) were distinctly different with a transition dose (Dc) of 0.28-0.40 cGy. Conclusion: HeLa cell line demonstrates marked HRS and IRR with distinct transition dose. This may form the biological basis of the clinical study to investigate the chemo potentiating effect of low dose radiation in cervical cancer. Address: S. Das, Department of Radiation Oncology, Christian Medical College, Vellore, IndiaPMID: 26266200 PMCID: PMC4525590NAT	4T
106.DasGupta R(1), Jebasingh FK(1), Asha HS(2), Thomas N(1). Cleidocranial dysostosis.26311012INTBMJ Case Rep. 2015 Aug 26;2015. pii: bcr2015211308. doi: 10.1136/bcr-2015-211308. Author information: (1)Department of Endocrinology, Diabetes and Metabolism, Christian Medical College, Vellore, Tamil Nadu, India. (2)Christian Medical College, Vellore, Tamil Nadu, India.26311012INT	IT
107.Dasgupta R(1), Naik D(1), Thomas N(1). Emerging concepts in the pathogenesis of diabetes in fibrocalculous pancreatic diabetes. J Diabetes. 2015 Nov;7(6):754-61. doi: 10.1111/1753-0407.12280. Epub 2015 May 6.PMID:25707547 WOS:000363457400003INT	IT

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	Author information: (1)Department of Endocrinology, Diabetes and Metabolism, Christian MedicalCollege, Vellore, India.		
	Fibrocalcific pancreatic diabetes (FCPD) is a rare form of diabetes affecting people in the tropics and presenting with unique clinical and radiological features. The onset of diabetes usually follows the first few episodes of abdominal pain and develops by the second or third decade of life. Endocrine and exocrine pancreatic insufficiency, brittle glycemic control, and insulin-requiring, ketosis-resistant diabetes are the novel characteristics of FCPD. The etiopathogenetic mechanisms leading to FCPD remain unknown. Although defects in insulin secretion are the major contributors, growing evidence towards a possible role for insulin resistance and body composition abnormalities have added a new dimension to the disease pathogenesis. Deciphering the key pathogenetic mechanisms may have a profound effect on therapeutic strategies in future studies on FCPD.		
108.	Dasgupta, R. and Thomas, N. Spotted bone disease <u>BMJ Case Rep.</u> 2015 May 4;2015. pii: bcr2014208422. doi: 10.1136/bcr-2014-208422.	PMID: 25939972	INT
	Address: N. Thomas ((Dasgupta R.; Thomas N., nihal-thomas@yahoo.com) Department of Endocrinology, Diabetes and Metabolism, Christian Medical College, Vellore, Tamil Nadu, India):		
109.	<ul> <li>David JA(1), Feldman BM(2).</li> <li>Assessing Activities, Participation, and Quality of Life in Hemophilia:</li> <li>Relevance, Current Limitations, and Possible Options.</li> <li>Semin Thromb Hemost. 2015 Nov;41(8):894-900. doi: 10.1055/s-0035-1552564. Epub2015 Oct 20.</li> <li>Author information: <ul> <li>(1)Department of Physical Medicine and Rehabilitation, Christian Medical College, Vellore, Tamil Nadu, India.</li> </ul> </li> </ul>	PMID: 26485720 WOS:000364569900012	INT
	(2)Division of Rheumatology, The Hospital for Sick Children, Toronto, Canada. The international classification of functioning (ICF) has provided a basic framework for the measurement of outcomes in any health condition. This includes the assessment of the level of activity, participation, and the quality of life of an individual with hemophilia. The measure of activity is an assessment of the individual's ability to perform daily tasks while participation assesses the social role of the individual. The health-related quality of life is an assessment of the perception of the individual's physical, mental, and social well-being. These functional outcomes are important to understand the impact of the broad spectrum of interventions in the management of hemophilia. The generic instruments used to measure these may be less sensitive than the disease-specific measures but are useful for the comparison between cohorts with different health conditions. Cross-cultural validity is essential for tools where the question can vary in the context of different cultures. Thieme Medical Publishers 333 Seventh Avenue, New York, NY 10001, USA.		
110.	David S, Kamath V, Kulkarni U, Vijayan R, Korula A, Fouzia N, et al. Coagulopathy in Acute Promyelocytic Leukemia: Strategies to Improve Assessment of Hemostatic Risk. Blood. 2015;126(23). DOI: Published 3 December 2015 http://www.bloodjournal.org/crossref-forward-links/bloodjournal/126/23/3758?sso-checked=true	WOS:000368021800015	INT

	1Department of Haematology, Christian Medical College, Vellore, India		
	2Department of Transfusion Medicine and Immunohaematology, Christian Medical College, Vellore, India		
111.	Davis, A. M., Sampilo, M., Gallagher, K. S., Dean, K., Saroja, M. B., Yu, Q., He, J. and Sporn, N. Treating rural paediatric obesity through telemedicine vs. telephone: Outcomes from a cluster randomized controlled trial J Telemed Telecare; 2015, OBJECTIVE: The objective of the current study was to examine the feasibility of telemedicine vs. telephone for the delivery of a multidisciplinary weekly family-based behavioural group intervention to treat paediatric obesity delivered to families living in rural areas using a randomized controlled trial methodology. METHODS: 103 rural children and their families were recruited. Feasibility measures included participant satisfaction, session attendance and retention. Treatment outcome measures included child Body Mass Index z-score (BMIz), parent BMI, 24-hour dietary recalls, accelerometer data, the child behavior checklist and the behavioral pediatrics feeding assessment scale. RESULTS: Participants were highly satisfied with the intervention both via telemedicine and via telephone. Completion rates were much higher than for other paediatric obesity intervention programmes, and both methodologies were highly feasible. There were no differences in telemedicine and telephone groups on primary outcomes. CONCLUSION: Both telemedicine and telephone intervention appear to be feasible and acceptable methods of delivering paediatric obesity treatment to rural children. Address: University of Kansas Medical Center, Department of Pediatrics, USA Center for Children's Healthy Lifestyles & Nutrition, USA adavis6@kumc.edu. Center for Children's Healthy Lifestyles & Nutrition, USA University of Kansas, Department of Clinical Child Psychology, USA. Boston Children's Hospital, Harvard Medical School, Department of Psychiatry, USA. University of Kansas Medical Center, Department of Pediatrics, USA. University of Kansas Medical Center, Department of Pediatrics, USA. University of Kansas Medical Center, Department of Biostatistics, USA. University of Kansas, Department of Psychology, US	PMID: 26026186	INT
112.	Debanjan Mandal*, Rajesh Gopalakrishnan, Anju Kuruvilla Diagnostic stability of ICD-10 Adjustment disorder - A retrospective two year follow up Indian J Psychiatry. 2015 Jan; 57(Suppl 1): S113–S159. CMC Vellore, India. E-mail: <u>gmail.com@cmnc50sbed</u> , <u>cmcvellore.ac.in@ujnas</u> Keyword: Adjustment disorder, Stress, Diagnostic stability, Retrospective study Aim: To study the diagnostic stability of patients diagnosed with Adjustment disorder after two years of follow up. Materials and Methods: Medical records of all adult patients who attended the Department of Psychiatry, Christian Medical College, Vellore, between January 1st and June 30th, 2012, diagnosed with Adjustment disorder, were reviewed at the end of two years to assess for the stability of diagnosis. Relevant socio- demographic and clinical details were collected. Results: A total of 168 records were retrieved. The majority were lost to follow up within three months of index visit. Diagnostic stability and correlation with socio-demographic variables will be presented in detail. Conclusion: The variable course and outcome of a diagnosis of adjustment disorder is well documented. It has been suggested that this diagnostic entity be removed from classificatory systems. However it is a useful category, as many patients present soon after the onset of illness, when the clinical features may not allow		NAT

	them to be categorized into any of the more classic disorders. The results of this study are consistent with		
	existing literature highlighting its importance as a separate diagnostic category.		
113.	<ul> <li>Deodhar D(1), Varghese G(1), Balaji V(2), John J(2), Rebekah G(3), JanardhananJ(1), Jeyaraman R(2), Jasmine S(4), Mathews P(5).</li> <li>Prevalence of Toxin Genes among the Clinical Isolates of Staphylococcus aureus and its Clinical Impact.</li> <li>J Glob Infect Dis. 2015 Jul-Sep;7(3):97-102. doi: 10.4103/0974-777X.162234.</li> <li>Author information: <ul> <li>(1)Department of Medicine Unit 1 and Infectious Diseases, Christian Medical</li> <li>College and Hospital, Vellore, Tamil Nadu, India. (2)Department of Microbiology, Christian Medical College</li> </ul> </li> </ul>	PMID: 26392716	NAT
	and Hospital, Vellore, Tamil Nadu, India. (3)Department of Biostatistics, Christian Medical College and Hospital, Vellore, Tamil Nadu, India. (4)Department of Medicine Unit 2, Christian Medical College and Hospital, Vellore, Tamil Nadu, India. (5)Department of Medicine Unit 3, Christian Medical College and Hospital, Vellore, Tamil Nadu, India. (5)Department of Medicine Unit 3, Christian Medical College and Hospital, Vellore, Tamil Nadu, India.		
	INTRODUCTION: Staphylococcus aureus (S. aureus) causes a variety of infections, ranging from a mild skin infection to blood stream infections and deep seated infections. As Stapylococcus aureus bacteremia (SAB) has the tendency to cause endovascular and metastatic infections, complications can occur at almost all sites of the body. Hence, SAB is associated with increased morbidity and mortality in spite of appropriate antimicrobial treatment. The virulence in S. aureus is determined by the presence of adhesins and toxins, which behave like superantigens (SAgs) and leads to a massive release of proinflammatory cytokines causing overwhelming inflammatory response leading to endothelial leakage, hemodynamic shock, multiorgan failure,		
	and possibly death. MATERIALS AND METHODS: One year prospective study conducted in a tertiary care hospital in southern part of India included all patients with SAB. Clinical details were filled according to. All isolates were subjected to polymerase chain reaction (PCR) for enterotoxin profiling. RESULTS: A total of 101 patients of SAB were identified which comprises of 61 (60.4%) patients with methicillin-susceptible S. aureus (MSSA) and 40 (39.6%) patients with methicillin-		
	resistant S. aureus (MRSA). Most common predictors of mortality were prior hospitalization and antibiotic intake, severe organ dysfunction, shock, tachycardia, and leukocytosis. Two-third of the isolates had at least one enterotoxin, most prevalent was sea; 28% and 27% (P - value = 0.001) MSSA isolates had seg and sei; whereas, 38.6% (P - value < 0.001) of MRSA isolates were found to have sea. The most common enterotoxin associated with mortality was sei, which comprised of 38% of all mortality. CONCLUSION: In SAB, the significant predictors of mortality were prior hospitalization and antibiotic intake, presence of multiorgan dysfunction, and shock. Although overall significance between the enterotoxin and shock could not be		
	demonstrated, it successfully demonstrated the difference of enterotoxin between MSSA and MRSA.		
114.	Deshpande P(1), Kamalanathan N(1), Sampath E(1), George B(1), Shaji RV(1), EdisonES(1). Characterization of Clinical and Laboratory Profiles of the Deletional $a2$ -Globin	26365411	INT
	Gene Polyadenylation Signal Sequence (AATAAA > AATA) in an Indian Population.		
	Hemoglobin. 2015 Dec;39(6):415-8. doi: 10.3109/03630269.2015.1079785. Epub 2015Sep 12.		
	Author information:		
	(1)a Department of Haematology, Christian Medical College, Vellore, Tamil Nadu, India. a-Thalassemia (a-		

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	thal) is characterized by large deletions involving the variable regions of a2 and/or a1 genes. Nondeletional mutations and polyadenylation (polyA) signal sequence motif mutations are less common. In this retrospective study, we describe a fragment length analysis-based polymerase chain reaction (PCR) assay for screening the T(Indian) (AATAAA>AATA; HBA2: c.*93_*94delAA) polyA signal deletion along with its clinical and laboratory presentation in 21patients. Most of the patients were diagnosed in early adulthood with a clinical presentation ranging from asymptomatic in the heterozygous state to severe Hb Hdisease with a prominent hemolytic component in the homozygous state. On genetic analysis, 14 patients were found to be homozygotes, five were compoundheterozygotes and two were heterozygotes. Thus, the T(Indian) polyA signaldeletion is common in the Indian population and should be screened for inpatients with nondeletional a-thal mutations.		
115.	Deshpande P, Jain P, Abu Alex A, Korula A, Lakshmi K, Nisham P, et al. Prognostic Significance of Immunophenotypic Composition of B Cell Acute Lymphoblastic Leukemia at Diagnosis: A Novel Immunophenotype Based Risk Score. Blood. 2015;126(23). https://ash.confex.com/ash/2015/webprogram/Paper81571.html Department of Haematology, Christian Medical College, Vellore, India	WOS:000368020102132	INT
116.	Deshpande, G. A., Mittal, R., Jesudasan, M. R. and Perakath, B. Surgical manifestations of scrub typhus: A diagnostic dilemma Natl Med J India; 2015, 28 (1): 12-3 BACKGROUND: Scrub typhus, a zoonosis caused by Orientia tsutsugamushi, is a systemic febrile illness. The disease presents with diverse clinical manifestations, ranging from subclinical disease to multiorgan failure and fatal disease. It may rarely present as an acute abdomen which may lead to a diagnostic dilemma. We describe two serologically confirmed cases of scrub typhus presenting as acute abdomen-one mimicking acute appendicitis and the other acute cholecystitis, both managed non-operatively. A high index of suspicion, along with subtle indicators in the history and clinical examination help avoid unnecessary surgery in such cases. Address: Department of General Surgery, Christian Medical College, Vellore 632004, Tamil Nadu, gayatrisabne@rediffmail.com. Department of General Surgery, Christian Medical College, Vellore 632004, Tamil Nadu.	PMID: 26219315 WOS:000358813500004	NAT
117.	Dhanraj P(1). A Clinical Study Comparing Helicoll with Scarlet Red and OpSite in the Treatment of Split Thickness Skin Graft Donor Sites-A Randomized Controlled Trial. Indian J Surg. 2015 Dec;77(Suppl 2):385-92. doi: 10.1007/s12262-013-0850-3. Epub 2013 Feb 21. Author information: (1)Department of Plastic Surgery, University of Texas Medical Branch/Shriners, Galveston, TX 77550 USA ; Department of Plastic & Reconstructive Surgery, Christian Medical College (CMC) Hospital, Vellore, 632 004 Tamil Nadu India ; 58/1 Banashankari Extn, 13th main, J.P. Nagar, 1st phase, Bangalore, KA 560078 India. Split thickness skin graft (STSG) is a key method in the reconstructive ladder for covering skin defects used widely by surgeons from all specialties. The donor site is often a source of delayed healing, associated with considerable pain and discomfort even more than the recipient wound. The aim of this prospective randomized controlled study was to compare Helicoll® (EnColl Corp., Fremont, CA, USA), a type I pure collagen dressing, to OpSite® (Smith & Nephew, USA) dressing and to Scarlet Red® (Kendall HealthCare,	PMID: 26730031 PMCID: PMC4692922 WOS:000368531700040	NAT

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	USA) dressing in the treatment of standardized STSG donor sites. Thirty patients, over a 3-month period, underwent various reconstructive procedures, necessitating the use of STSGs. Following a simple randomized clinical protocol, the analysis of data included donor site pain, healing time of the donor site, initial absorption of the applied dressing and rate of infection with the three different dressings to form the basis of this paper. Patients in the Helicoll group reported significantly less pain, less infection rate and required no dressing change when compared with the OpSite (Johnson & Johnson, Langhorne, PA, USA) or the Scarlet Red groups. Healing time of the donor site in the Helicoll group was shorter than that in the Scarlet Red group; however, it was comparable to the OpSite group. This study indicates that Helicoll, as a donor site dressing, is successful in providing pain-free mobility with a measurable healing rate.		
118.	Dhanyee AS(1), Singh G, Manayalil BP. Revision of Ventriculoatrial Shunt With Transesophageal Echocardiogram Guidance. J Neurosurg Anesthesiol. 2015 Oct;27(4):358-9. doi: 10.1097/ANA.0000000000000178. Author information:	PMID: 25775179 WOS:000369886500024	INT
	(1)Christian Medical College and Hospital Vellore, Tamil Nadu, India.		
119.	<ul> <li>Dholakia SY(1), Susmita C(1), Ranjit KD(1), Singh Y(1), Braganza D(1).</li> <li>Neurosis Meets Psychosis: Case Series from a Tertiary Care Center in South India.</li> <li>Indian J Psychol Med. 2015 Jul-Sep;37(3):360-3. doi: 10.4103/0253-7176.162924.</li> <li>Department of Psychiatry, Mental Health Centre Bagayam, Christian Medical College, Vellore, Tamil Nadu, India.</li> <li>The utility of the terms psychosis and neurosis in psychiatry have maintained their dichotomous stance since ages. Clinical observations and etiological hypothesis of psychiatric disorders have kept this polarity intact since the times of Freud and Jung. This case series attempts to revisit this perennial psychiatric controversy.</li> </ul>	PMID: 26664092	NAT
120.	Dilip Mathai,1 Vasudevan Anil Kumar,2 Breezy Paul,3 Madhan Sugumar,3 Kamala Russel John,4 Anand Manoharan,3 and Lalitha Mukkai Kesavan5 Fecal Carriage Rates of Extended-Spectrum beta-Lactamase-Producing Escherichia coli Among Antibiotic Naive Healthy Human Volunteers. Microbial Drug Resistance. 2015;21(1):59-64. doi: 10.1089/mdr.2014.0031 1Apollo Institute of Medical Sciences and Research, Hyderabad, India. 2Department of Microbiology, Amrita Institute of Medical Sciences, Kochi, India. 3Infectious Disease Training and Research Center, Christian Medical College, Vellore, India. 4Department of Community Medicine, Christian Medical College, Vellore, India. 5Department of Microbiology, Christian Medical College, Vellore, India. Work for the article was conducted at Infectious Disease Training and Research Center, Medicine I, Christian Medical College, Vellore, India.	WOS:000349013000008	INT
121.	Dimichele DM(1), Lacroix-Desmazes S, Peyvandi F, Srivastava A, Rosendaal FR; Subcommittee on Factor VIII, Factor IX and Rare Coagulation Disorders. Design of clinical trials for new products in hemophilia: communication from the SSC of the ISTH.	PMID: 25728341 WOS:000354259000024	INT

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	J Thromb Haemost. 2015 May;13(5):876-9. doi: 10.1111/jth.12882. Epub 2015 Apr 13.		
	Author information: Division of Blood Diseases and Resources, National Heart, Lung, and Blood Institute, National Institutes of Health, Bethesda, MD, USA Centre de Recherche des Cordeliers, Université Pierre et Marie Curie-Paris 6, Université Paris Descartes, INSERM, UMR S 1138, Paris, France Angelo Bianchi Bonomi Hemophilia and Thrombosis Center, Fondazione IRCCS Cà Granda Ospedale Maggiore Policlinico, Fondazione Luigi Villa and Department of Pathophysiology and Transplantation, Università degli Studi di Milano, Milan, Italy Department of Hematology, Christian Medical College, Vellore, India Department of Clinical Epidemiology, Leiden University Medical Center, Leiden, The Netherlands Department of Thrombosis and Haemostasis, Leiden University Medical Center, Leiden, the Netherlands		
122.	Dominici M(1), Nichols K(2), Srivastava A(3), Weiss DJ(4),Eldridge P(5), Cuende N(6), Deans RJ(7), Rasko JE(8), Levine AD(9), Turner L(10), Griffin DL(11), O'Donnell L(12), Forte M(13), Mason C(14), Wagena E(15), Janssen W(16), Nordon R(17), Wall D(18), Ho HN(19), Ruiz MA(20), Wilton S(21), Horwitz EM(22), Gunter KC(23); 2013–2015 ISCT Presidential Task Force on Unproven Cellular Therapy. Positioning a Scientific Community on Unproven Cellular Therapies: The 2015 International Society for Cellular Therapy Perspective.	PMID: 26589750 WOS:000365246500001	INT
	Author information: (1)Division of Oncology, Laboratory of Cellular Terapy, University of Modena & Reggio Emilia, Modena, Italy. Electronic address: massimo.dominici@unimore.it.(2)NantKwest, Inc, Culver City, California, USA. (3)Center for Stem Cell Research, (a unit of inStem, Bengaluru) and Department of Hematology, Christian Medical College, Vellore, India. (4)Department of Medicine, University of Vermont, Burlington, Vermont, USA. (5)Advanced Cellular Therapeutics Facility,University of North Carolina Lineberger Comprehensive Cancer Center, Chapel Hill, North Carolina, USA. (6)Andalusian Initiative for Advanced Therapies, Junta de Andalucía, Sevilla, Spain. (7)Rubius Therapeutics, Cambridge, Massachusettes, USA. (8)Department of Cell & Molecular Therapies, Royal Prince Alfred Hospital, Centenary Institute, Sydney Medical School, University of Sydney, Sydney, Australia. (9)School of Public Policy, Georgia Institute of Technology, Atlanta, Georgia, USA. (10)University of Minnesota Center for Bioethics and School of Public Health, Minneapolis, Minnesota, USA. (11)Moffitt Cancer Center and Research Institute, Tampa, Florida, USA. (12)Division of Hematology, Cell Therapy Laboratory, The Ohio State University Comprehensive Cancer Center and James Cancer Hospital, Columbus, Ohio, USA. (13)TxCell SA, Valbonne-Sophia Antipolis, France. (14)Advanced Centre for Biochemical Engineering, University College London, London, UK. (15)Wagena Consulting B.V., Voorburg, The Netherlands. (16)St. Jude Children's Research Hospital, Memphis, Tennessee, USA. (17)Graduate School of Biomedical Engineering, University of New South Wales, Sydney, Australia. (18)Parkville, Australia & Cell Therapies, University of Melbourne, East Melbourne, Australia. (19)Department of Obstetrics and Gynecology, College of Medicine, National Taiwan University, Taipei, Taiwan. (20)Bone Marrow Transplantation and Cell Therapies, University of Hematology/Oncology/BMT, Nationwide Children's Hospital, Departments of Pediatrics and Medicin		

	Medica Inc., Houston, Texas, USA.	-	
123.	<ul> <li>Medica Inc., Houston, Texas, USA.</li> <li>Doria AS(1), Keshava SN, Mohanta A, Jarrin J, Blanchette V, Srivastava A, Moineddin R, Kavitha ML, Hilliard P, Poonnose P, Gibikote S.</li> <li>Diagnostic accuracy of ultrasound for assessment of hemophilic arthropathy: MRI correlation.</li> <li>AJR Am J Roentgenol. 2015 Mar;204(3):W336-47. doi: 10.2214/AJR.14.12501.</li> <li>Author information:</li> <li>Affiliations: 1Department of Diagnostic Imaging, The Hospital for Sick Children, 555 University Ave, Toronto, ON MSG 1X8, Canada.</li> <li>2Department of Radiology, Christian Medical College, Vellore, India.</li> <li>3Department of Hematology, The Hospital for Sick Children, Toronto, ON, Canada.</li> <li>4Department of Hematology, Christian Medical College, Vellore, India.</li> <li>5Department of Family and Community Medicine, University of Toronto, Toronto, ON, Canada.</li> <li>6Department of Rehabilitation Services, The Hospital for Sick Children, Toronto, ON, Canada.</li> <li>8Department of Rehabilitation Services, The Hospital for Sick Children, Toronto, ON, Canada.</li> <li>8Department of Rehabilitation Services, The Hospital for Sick Children, Toronto, ON, Canada.</li> <li>8Department of Rehabilitation Services, The Hospital for Sick Children, Toronto, ON, Canada.</li> <li>8Department of Rehabilitation Services, The Hospital for Sick Children, Toronto, ON, Canada.</li> <li>8Department of Grandwith MRI for assessing joint components. SUBJECTS AND METHODS. Ankles (n = 34) or knees (n = 25) of boys with hemophilia or von Willebrand disease (median age, 13 years; range, 5-17 years) were imaged by ultrasound, MRI, and radiography in two centers (Toronto, Canada, and Vellore, India).</li> <li>Ultrasound scans were performed by two operators (one blinded and one unblinded to MRI data) and were reviewed by four reviewers who were unblinded to corresponding MRI findings according to a proposed 0- to 14-item scale that matches 14 of 17 items of th</li></ul>	PMID: 25714320 WOS:000351598800016	INT
	these joints.		
124.	<ul> <li>D'sa SR(1), Peter JV(1), Chacko B(1), Pichamuthu K(1), Sathyendra S(2).</li> <li>Intra-aortic balloon pump (IABP) rescue therapy for refractory cardiogenic shock due to scorpion sting envenomation.</li> <li>Clin Toxicol (Phila). 2015 Dec 22:1-3. [Epub ahead of print]</li> <li>(1)a Medical ICU , Christian Medical College , Vellore , Tamil Nadu , India ;</li> <li>(2)b Department of Medicine , Christian Medical College , Vellore , Tamil Nadu , India.</li> </ul>	PMID: 26696217 [PubMed - as supplied by publisher]	INT
	(1)a Medical ICU , Christian Medical College , Vellore , Tamil Nadu , India ;		

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	BACKGROUND: Cardiomyopathy, cardiogenic shock or acute pulmonary oedema are well recognised complications of scorpion sting envenomation occurring in about 1-3% of patients. Current treatment recommendations include afterload reduction using prazosin and improving cardiac contractility with inotropes like dobutamine. Wereport the use of intra-aortic balloon pump (IABP) as rescue therapy in a patientwith refractory cardiogenic shock due to Mesobuthus tamulus (Indian red scorpion)envenomation. CASE: A 32-year-old woman was referred 24 h after a scorpion sting. At presentation she was ventilated and in circulatory shock (systolic blood pressure <50 mmHg). After admission, the patient had four cardiac arrests (three episodes of pulseless ventricular tachycardia/ventricular fibrillation and one episode of asystole) over the next few hours. Following resuscitation, despite a combination of dobutamine, noradrenaline, and adrenaline, blood pressure did not improve significantly. In view of persistent tachycardia (heart rate 160/min), catecholamine storm was suspected and prazosin was added. However, shock was refractory. Hence, IABP was considered as rescue therapy. Following initiation of IABP, there was improvement in cardiac function (improved ejection fraction)which translated to weaning of inotropes over 48 h and improved organ function (renal, respiratory) in the next 2-3 d. However, following extubation, on Day 8, she was noted to have features of hypoxic brain injury. This improved gradually. At discharge (Day 30) she was independent for activities of daily living and was able to mobilise without support. CONCLUSION: IABP could be generally considered as a rescue therapy in refractory cardiogenic shock in envenomations.		
125.	Dutta AK(1), Chacko A(1). Emerging role of narrow band imaging in duodenum.	PMID: 26566428	INT
	World J Gastrointest Endosc. 2015 Nov 10;7(16):1216-21. doi: 10.4253/wjge.v7.i16.1216.		
	(1)Amit Kumar Dutta, Department of Gastrointestinal Sciences, Christian MedicalCollege, Vellore 632004, Tamil Nadu, India.		
	Endoscopy using magnification narrow band imaging (mNBI) allows detailed assessment of mucosal surface and vascular pattern. This may help in better identification and prediction of the nature of the lesion. The role of this technology in duodenum is still evolving. Studies have shown that mNBI has high accuracy in predicting villous atrophy in the duodenum. Limited data suggests that this technique can provide additional information on duodenal polyps, nodules and ampullary tumour which can help guide their management. In this paperwe describe the technique for duodenal assessment using NBI and review theexisting literature evaluating its role in diagnosis of various duodenal pathologies.		
126.	Dutta AK(1), Danda S(2). Restrictive Dermopathy.	PMID: 26627141	INT
	Pediatr Neonatol. 2015 Oct 28. pii: S1875-9572(15)00152-7. doi: 10.1016/j.pedneo.2015.09.005.		
	(1)Medical Genetics Unit, Christian Medical College, Vellore, India. Electronic address: atanu.dutta05@gmail.com. (2)Medical Genetics Unit, Christian Medical College, Vellore, India.		
127.	Dutta, A. K. and Chacko, A.	PMID: 25789097	INT

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	<ul> <li>Head mass in chronic pancreatitis: Inflammatory or malignant</li> <li>World J Gastrointest Endosc; 2015, 7 (3): 258-64</li> <li>Chronic pancreatitis increases the risk of developing pancreatic cancer. This often presents as a mass lesion in the head of pancreas. Mass lesion in the head of pancreas can also occur secondary to an inflammatory lesion. Recognising this is crucial to avoid unnecessary surgery. This is sometimes difficult as there is an overlap in clinical presentation and conventional computed tomography (CT) abdomen findings in inflammatory and malignant mass. Advances in imaging technologies like endoscopic ultrasound in conjunction with techniques like fine needle aspiration, contrast enhancement and elastography as well as multidetector row CT, magnetic resonance imaging and positron emission tomography scanning have been shown to help in distinguishing inflammatory and malignant mass. Research is ongoing to develop molecular techniques to help characterise focal pancreatic mass lesions. This paper reviews the current status of imaging and molecular techniques in differentiating a benign mass lesion in chronic pancreatitis and from malignancy.</li> <li>Address: Amit K Dutta, Department of Gastrointestinal Sciences, Christian Medical College, Vellore 632 004, India.</li> </ul>	4360445: 4360445	
128.	Ealai PA(1), Yadav VK(1), Vanjare HA(2), Gibikote S(2). Penile epidermal inclusion cyst: a rare location. BMJ Case Rep. 2015 Aug 19;2015. pii: bcr2015212137. doi: 10.1136/bcr-2015-212137.	26290567	INT
	Author information: (1)Department of Radiology, Christian Medical College, Vellore, Tamil Nadu, India. (2)Christian Medical College, Vellore, Tamil Nadu, India.		
129.	Eapen C, Elias E, Goel A, Jobn T. Hypothesis of mechanism of thrombocytopenia in severe dengue, providing clues to better therapy to save lives. Current Science. 2015;108(2):168-9. http://www.currentscience.ac.in/Volumes/108/02/0168.pdf Author information: 1Hepatology Department, and 2Department of Clinical Virology, Christian Medical College, Vellore 632 004, India 3 Liver Unit, University Hospitals Birmingham, Birmingham, UK *For correspondence. e-mail: eapen@cmcvellore.ac.in	WOS:000349424100010	NAT
130.	<ul> <li>Ebenezer K(1), Job V(2), Antonisamy B(3), Dawodu A(4), Manivachagan MN(5), Steinhoff M(4).</li> <li>Serum Vitamin D Status and Outcome among Critically III Children Admitted to the Pediatric Intensive Care Unit in South India.</li> <li>Indian J Pediatr. 2015 Jul 19. [Epub ahead of print]</li> <li>Author information:</li> <li>(1)Department of Pediatrics, Christian Medical College, Vellore, 632004, Tamil</li> <li>Nadu, India. kinbaraj@cmcvellore.ac.in. (2)Department of Clinical Biochemistry, Christian Medical College, Vellore, Tamil Nadu, India. (3)Department of Biostatistics, Christian Medical College, Vellore, Tamil Nadu, India. (4)Global Health Centre, Cincinnati Children's Medical Centre, Cincinnati, OH, USA. (5)Department of Pediatrics, Christian Medical College, Vellore, 632004, Tamil Nadu, India.</li> <li>OBJECTIVES: To determine the vitamin D status and the association between vitamin D status and the clinical outcome of critically ill children admitted to pediatric intensive care unit (PICU) in South India.</li> <li>METHODS: Fifty-four consecutive children with medical and surgical diagnoses were included with parental</li> </ul>	PMID: 26187509	NAT

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	consent. Severity of illness was assessed using PIM-2 score; Sequential Organ Failure Assessment Cardiovascular Score (CV-SOFA) was used to describe vasopressor use. Serum for 25(OH) D levels was obtained as close as possible to the ICU admission. Vitamin D deficiency was defined as serum 25(OH) D level < 20 ng/ml (50 nmol/L). Primary outcome measures were serum 25(OH) D level and in-hospital all cause mortality. Secondary outcomes were illness severity, vasopressor requirement, use of mechanical ventilation and duration of ICU stay. RESULTS: Of the 54 children, two were excluded due to insufficient serum for vitamin D analysis. Median age was 17.5 mo (IQR=4.5-78); 38.5 % were infants. Higher age was associated with low vitamin D levels (r s = -0.34; p 0.01). Median serum 25(OH) D level was 25.1 ng/ml (IQR=16.2-34.2). Shock (30.8 %), CNS conditions (23.1 %) and respiratory illnesses (21.2 %) were the three most common reasons for admission to the PICU. Vitamin D deficiency was seen in 40.3 % of the critically ill children. Higher PIM score or SOFA score were associated with low vitamin levels (r s = -0.29, p 0.04 and r s = -0.29, p 0.05 respectively). Children who were mechanically ventilated had a significantly lower median serum 25(OH) D level than those who were not on ventilation [19.5 ng/ml (IQR=14.6-27.7)] vs. 32.1 ng/ml[(IQR=16.5-50.9), p 0.01]. Serum 25(OH) D level was also positively associated with serum calcium levels (r s = 0.32, p 0.03). The proportion of children who died or were discharged terminally at parental request was 23.8 % among those with serum 25(OH) D level <20 ng/ml as compared to 16.1 % among those with serum 25(OH) D level >20 ng/ml (p 0.49). CONCLUSIONS: Vitamin D deficiency is common among pediatric patients admitted to PICU in South India. Low serum 25(OH) D level was associated with higher severity of illness, need for mechanical ventilation, more vasopressor use and lower serum calcium levels. No association between vitamin D status and mortality was demonstrated.		
131.	Ekbote V, George B, Mathews V, Lakshmi K, Ganapule A, Abubacker F, et al. Efficacy of Second Line Agents Dapsone & Azathioprine in Children & Adults with Immune Thrombocytopenia: Single Centre Experience from India. Blood. 2015;126(23). <u>http://www.bloodjournal.org/content/126/23/1064?sso-checked=true</u> Author Affiliations 1Department of Haematology, Christian Medical College, Vellore, India	WOS:000368019003188	INT
132.	Elayaperumal S, Edison E, Govindanattar S, Singh S, Abraham A, George B, et al. Molecular Basis of Von Willebrand Disease in Patients from India. Blood. 2015;126(23). <u>https://ash.confex.com/ash/2015/webprogram/Paper84550.html</u> Author Affiliations 1Department of Haematology, Christian Medical College, Vellore, India 2Immunohaematology & Transfusion Medicine, Christian Medical College, Vellore, India 3Allogeneic Blood and Marrow Transplant Program, Princess Margaret Cancer Centre, University of Toronto, Toronto, ON, Canada 4Christian Medical College, Centre for Stem Cell Research, Vellore, India	WOS:000368019003226	INT
133.	Fayyaz, A., Igoe, A., Kurien, B. T., Danda, D., James, J. A., Stafford, H. A. and Scofield, R. H. Haematological manifestations of lupus Lupus Sci Med; 2015, 2 (1): e000078 Our purpose was to compile information on the haematological manifestations of systemic lupus	PMID: 25861458 4378375: 4378375	INT

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	erythematosus (SLE), namely leucopenia, lymphopenia, thrombocytopenia, autoimmune haemolytic anaemia (AIHA), thrombotic thrombocytopenic purpura (TTP) and myelofibrosis. During our search of the English- language MEDLINE sources, we did not place a date-of-publication constraint. Hence, we have reviewed previous as well as most recent studies with the subject heading SLE in combination with each manifestation. Neutropenia can lead to morbidity and mortality from increased susceptibility to infection. Severe neutropenia can be successfully treated with granulocyte colony-stimulating factor. While related to disease activity, there is no specific therapy for lymphopenia. Severe lymphopenia may require the use of prophylactic therapy to prevent select opportunistic infections. Isolated idiopathic thrombocytopenic purpura maybe the first manifestation of SLE by months or even years. Some manifestations of lupus occur more frequently in association with low platelet count in these patients, for example, neuropsychiatric manifestation, haemolytic anaemia, the antiphospholipid syndrome and renal disease. Thrombocytopenia can be regarded as an important prognostic indicator of survival in patients with SLE. Medical, surgical and biological treatment modalities are reviewed for this manifestation. First-line therapy remains glucocorticids. Through our review, we concluse glucocorticids are used as first-line therapy in patients with SLE with AIHA, but there is no conclusive evidence to guide second-line therapy. Rituximab is promising in refractory and non-responding AIHA. TTP is not recognised as a criteria for classification of SLE, but there is a considerable overlap between the presenting features of TTP and SLE, and a few patients with SLE have concurrent TTP. Myelofibrosis is an uncommon yet well-documented manifestation of SLE. We have compiled the cases that were reported in MEDLINE sources. Adfains Medical Sences Center , Oklahoma City, Oklahoma , USA ; Department of Medicine , University of Oklahoma Health Sci		
134.	Finny, P., Stephen, C., Jacob, R., Tharyan, P. and Seshadri, M. S. Jasmine flower extract lowers prolactin Trop Doct; 2015, 45 (2): 118-22 BACKGROUND: Antipsychotic drugs frequently cause amenorrhoea and galactorrhoea. Jasmine flowers used topically were as effective as oral Bromocriptine in suppressing puerperal lactation. This study aims to evaluate the efficacy and safety of intranasal jasmine flower extract (JFE) to reduce prolactin levels of patients on stable doses of antipsychotic drugs. METHOD: This is a randomized, double blind, crossover clinical trial. An aqueous-ethanol extract of jasmine flowers was prepared and used as nasal drops. A decrease in serum prolactin of >/=25 ng/mL was considered a significant response. RESULTS: Ten out of 35 women had a significant drop in the serum prolactin while on the JFE. The non-responders to JFE were on higher doses of antipsychotic drugs. The main side effect was a transient and mild burning sensation in the nose. A cost analysis favoured JFE over dopamine agonists. CONCLUSION: JFE contains a prolactin-lowering substance which needs further characterisation. Address: Registrar, Department of Endocrinology, Christian Medical College, Vellore, India philip.finny@gmail.com.	PMID: 25505191 WOS:000352003400012	INT

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	Lecturer, Department of Biochemistry, Christian Medical College, Vellore, India. Lecturer, Department of Psychiatry, Christian Medical College, Vellore, India. Professor, Department of Psychiatry, Christian Medical College, Vellore, India. Professor, Department of Endocrinology, Christian Medical College, Vellore, India.		
135.	Fleming JJ Analytical Interference, Who Should Assess Kits? <u>Indian Journal of Clinical Biochemistry</u> . 2015 Jul; 30(3): 245-6 Department of Clinical Biochemistry, CMC Hospital, Vellore, 632 004 Tamil Nadu India.	PMID: 26089607 PMCID:PMC4469051	NAT
136.	Fouzia N, Raj R, Choudhary D, Damodar S, Apte S, John M, et al. Outcome of Allogeneic Stem Cell Transplantation for Thalassemia Major in India. Blood. 2015;126(23). https://ash.confex.com/ash/2015/webprogram/Paper82128.html	WOS:000368020104101	INT
	Author Affiliations ouzia NA, Dip NB, DM,1*, Revathi Raj, MD2*, Dharma Choudhary, MD, DM3*, Sharat Damodar, MD, DM4*, Shashikant Apte, MD, FRCPA5, M Joseph John, MD, DM6*, Ashish Dixit, MD, DM7, Kannan Subramanyan, DipNB, DM8*, Jose Easow, MD9*, Sunil Bhat, MBBS, MD, FPHO10*, Chepsy C Philip, MD, DM6*, Amrith Mathew, MD6*, Kavitha M Lakshmi, MSc1*, Anu Korula, MD, DM1*, Aby Abraham, MD, DM1*, Auro Viswabandya, MD, DM11 and Alok Srivastava, MD, FRACP1 1Department of Haematology, Christian Medical College, Vellore, India 2Apollo Specialty Hospitals, Chennai, India 3BL Kapur Superspecialty Hospital, New Delhi, India 43. Narayana Multi Specialty Hospital and Mazumdar Shaw Cancer Center, Bengaluru, Bengaluru, India 5Department of Haematology, Sahyadri Speciality Hospital, Pune, India 6Department of Clinical Haematology, Haemato-Oncology & Bone Marrow (Stem cell) Transplantation, Christian Medical College, Ludhiana, India 7Manipal Hospital, Bangalore, India 8Department of Haematology, Sahyadri Specialty Hospitals, Pune, India 9Apollo Specialty Hospital, Chennai, India 10Narayana Multi Specialty Hospital and Mazumdar Shaw Cancer Center, Narayana Health City, Bangalore, India 11Allogeneic Blood and Marrow Transplant Program, Princess Margaret Cancer Centre, University of Toronto,		
137.	Toronto, ON, Canada Francis MR(1), Nagarajan G(2), Sarkar R(3), Mohan VR(4), Kang G(5), Balraj V(6). Perception of drinking water safety and factors influencing acceptance and sustainability of a water quality intervention in rural southern India.	PMID: 26223687 PMC4520261 WOS:000358642400008	INT
	<ul> <li>BMC Public Health. 2015 Jul 30;15:731. doi: 10.1186/s12889-015-1974-0.</li> <li>Author information:</li> <li>(1)Division of Gastrointestinal Sciences, Christian Medical College, Vellore, TN, 632004, India.</li> <li>elysium28@gmail.com. (2)Department of Physical Medicine and Rehabilitation, Christian Medical College, Vellore, TN, 632002, India. guru@cmcvellore.ac.in. (3)Division of Gastrointestinal Sciences, Christian Medical</li> </ul>		

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	College, Vellore, TN, 632004, India. rsarkar@cmcvellore.ac.in. (4)Department of Community Health, Christian Medical College, Vellore, TN, 632002, India. venkat@cmcvellore.ac.in. (5)Division of Gastrointestinal Sciences, Christian Medical College, Vellore, TN, 632004, India. gkang@cmcvellore.ac.in. (6)Society for Applied Studies, No 14, Natteri Krishnamachari Street, Krishna Nagar, Vellore, 632001, Tamilnadu, India. vinoharbalraj@gmail.com. BACKGROUND: Acceptance and long-term sustainability of water quality interventions are pivotal to realizing continued health benefits. However, there is limited research attempting to understand the factors that influence compliance to or adoption of such interventions. METHODS: Eight focus group discussions with parents of young childrenincluding compliant and not compliant households participating in an intervention study, and three key-informant interviews with village headmen were conducted between April and May 2014 to understand perceptions on the effects of unsafe water on health, household drinking water treatment practices, and the factors influencing acceptance and sustainability of an ongoing water quality intervention in a rural population of southern India. RESULTS: The ability to recognize health benefits from the intervention, ease of access to water distribution centers and the willingness to pay for intervention maintenance were factors facilitating acceptance and sustainability of the water quality intervention. On the other hand, faulty perceptions on water treatment, lack of knowledge about health hazards associated with drinking unsafe water, false sense of protection from locally available water, resistance to change in taste or odor of water and a lack of support from male members of the household were important factors impeding acceptance and long term use of the intervention. CONCLUSION: This study highlights the need to effectively involve communities at important stages of implementation for long term success of water quality interventions. Timely		
138.	<ul> <li>Fredrick FF(1), Ruggajo PJ(1), Basu G(2), Svarstad E(3), Langeland N(4).</li> <li>Global collaboration bears fruit: Tanzania report.</li> <li>Kidney Int. 2015 Dec;88(6):1211-1214. doi: 10.1038/ki.2015.248.</li> <li>(1)School of Medicine, Muhimbili University of Health and Allied Sciences</li> <li>(MUHAS), and Renal Unit, Muhimbili National Hospital, Dar es Salaam, Tanzania. (2)Department of Nephrology, Christian Medical College, Vellore, Tamil Nadu, India. (3)Department of Clinical Medicine,</li> </ul>	PMID: 26649654 WOS:000366395300001	INT
	University of Bergen. (4)Department of Clinical Sciences, Haukeland University Hospital, Bergen,		
139.	Ganapule A, Apte S, Khattry N, Jain R, John J, Damodar S, et al. Pre-Transplant Consolidation and Cost Effectiveness of RIC Allogeneic SCT in Patients of AML-CR1 in India. Biology of Blood and Marrow Transplantation. 2015;21(2):S298-S.	WOS:000348633000429	INT
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	<ul> <li>(1)a Dept. of Pediatrics , SBKS Medical College , Vadodara , India. (2)b Dept. of Pediatrics , Jawaharlal Nehru Medical College , Belgaum , India. (3)c Dept. of Pediatrics , JSS Medical College , Mysore , India. (4)d Dept. of Pediatrics ,</li> <li>Maulana Azad Medical College , Delhi , India. (5)e Dept. of Pediatrics , Institute of Child Health , Kolkata , India. (6)f Dept. of Pediatrics , Bharati</li> <li>Vidyapeeth Deemed University Medical College , Pune , India. (7)g Dept. of Pediatrics , Christian Medical College , Ludhiana , India. (8)h Dept. of Pediatrics , Christian Medical College , Ludhiana , India. (8)h Dept. of Pediatrics , Christian Medical College , Ludhiana , India. (8)h Dept. of Pediatrics , Chorol of Public Health, Post Graduate Institute of Medical Education &amp; Research , Chandigarh , India. (10)j Dept. of Pediatrics , Sawai Man Singh Medical College , Jaipur , India. (11)k Dept. of Pediatrics , Topiwala Nair Medical College , Mumbai , India. (12)l Shantha Biotechnics Private Limited , Hyderabad , India.</li> <li>Pentavalent combination vaccines are important tools to strengthen the immunization programs in numerous countries throughout the world. A large number of countries have recognized the value of combination vaccines and have introduced whole cell pentavalent vaccines into their immunization programs. A phase III, multi-center, randomized, single blinded study of a fully liquid pentavalent DTWP-HepB-Hib investigational vaccine (Shan5<sup>TM</sup>) was conducted across India in two cohorts: 15 toddlers were evaluated for safety and immunogenicity following a single booster dose (Cohort 1) followed by 1085 infants (Cohort 2) evaluated for immunogenicity and safety following three-dose primary immunization of the investigational vaccine or a locally licensed comparator vaccine (Pentavac SD). Immune consistency analysis among three lots of the investigational vaccine, and immune non-inferiority analysis of pooled (three lots) data of investigational vaccine vaccine were carried out in cohort</li></ul>		
141.	Ganesan S, Alex A, Chendamarai E, Balasundaram N, Palani H, David S, et al. Proteasome Activity is Dispensible for the Degradation of PML-RARA: Efficacy of Bortezomib along with Arsenic Trioxide in the Treatment of ATO Sensitive and Resistant Acute Promyelocytic Leukemia. Annals of Hematology. 2015;94:S92-S3.	WOS:000367478800104	INT
142.	George AA(1), Bindra M(2), Mohanraj P(2).	PMID: 26657297	INT
	Rare Presentation of Disseminated Histoplasmosis in an Immunocompetent Host.	WOS:000366540800001	
	Am J Trop Med Hyg. 2015 Dec 9;93(6):1125-7. doi: 10.4269/ajtmh.15-0239.		
	Christian Medical College, Vellore, Tamil Nadu, India anugeorg@gmail.com.		
	(2)Christian Medical College, Vellore, Tamil Nadu, India.		
143.	George AA, George L, Mahabal G, Bindra M, Pulimood S(1).	PMID: 26515852	NAT
	Systemic T cell lymphoma presenting as cutis verticis gyrata.		

	Indian J Dermatol Venereol Leprol. 2015 Nov-Dec;81(6):631-3. doi: 10.4103/0378-6323.168339.		
	Author information: (1)Department of Dermatology, Venereology and Leprosy, Christian Medical College, Vellore, Tamil Nadu, India.		
144.	George B, Mahapatra M, Mishra P, Apte S, Damodar S, Khattry N, et al. Improved Outcomes with Allogeneic Stem Cell Transplantation for Aplastic Anaemia Using HLA Identical Sibling Donors: The Indian Stem Cell Transplant Registry (ISCTR) Experience. Blood. 2015;126(23)	WOS:00036802180201	INT
	Author Affiliations Department of Haematology, Christian Medical College, Vellore, India Hematology, All India Institute Of Medical Sciences, New Delhi, India All India Institute of Medical Sciences, New Delhi, India Department of Haematology, Sahyadri Speciality Hospital, Pune, India Haematology department, Narayana Hrudayalaya Hospital, Bangalore, India Narayana Hirudalaya, Bangalore, India Tata Memorial Center, ACTREC, Mumbai, India BL Kapur Superspecialty Hospital, New Delhi, India Apollo Specialty Hospital, Chennai, India All India Institute of Medical Sciences Department of Haematology, New Delhi, India Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow, India Department of Haematology, Rajiv Gandhi Cancer Institute and Research Center, New Delhi, India Manipal Hospital, Bangalore, India Army Hospital (research & referral), Delhi Cantt, New Delhi, India Tata Medical Center, KOLKATA, India Department of Haematology, Haemato-Oncology & Bone Marrow (Stem cell) Transplantation, Christian Medical College, Ludhiana, India Narayana Multi Specialty Hospital and Mazumdar Shaw Cancer Center, Narayana Health City, Bangalore, India Army Hospital (R and R), New Delhi, India Tata Medical Hospital, Navi Mumbai, India Department of Hematology, Christian Medical College, Vellore, India Army Hospital (R and R), New Delhi, India Tata Medical Hospital, Navi Mumbai, India Department of Hematology, Christian Medical College, Vellore, India Army Hospital (R and R), New Delhi, India Sahayadri Hospital, Pune, India Rajiv Gandhi Cancer Institute and Research Centre, New Delhi, India Rajiv Gandhi Cancer Institute and Research Centre, New Delhi, India Rajiv Gandhi Cancer Institute and Research Centre, New Delhi, India Rajiv Gandhi Cancer Institute and Research Centre, New Delhi, India Rajiv Gandhi Cancer Hospital, New Delhi, India Sterling Hospital, Ahmedabad, India BL Kapur Memorial Hospital, New Delhi, India Sterling Hospital, Ahmedabad, India		
	Department of Clinical Hematology & Medical Oncology, Malabar Cancer Centre, Thalassery, Kerala, India		

	Haematology, Army Hospital (Research & Referral), New Delhi, India Tata Medical Centre, Kolkota, India		
145.	George B, Viswabandya A, Abraham A, Lakshmi K, Ganapule A, Fouzia N, et al. Allogeneic Stem Cell Transplantation Is Superior to Immunosuppressive Therapy in Children with Aplastic Anaemia - a Single Centre Analysis from India. Biology of Blood and Marrow Transplantation. 2015;21(2):S221-S. <u>http://dx.doi.org/10.1016/j.bbmt.2014.11.340</u> Department of Haematology, Christian Medical College, Vellore, India	WOS:000348633000299	INT
146.	George B, Viswabandya A, Abraham A, Sindhuvi E, Ganapule A, Fouzia N, et al. Increased Incidence of Mixed Chimerism with the Use of Fludarabine - Treosulfan Based Conditioning in Patients Undergoing Allogeneic Stem Cell Transplantation for Thalassaemia Major. Biology of Blood and Marrow Transplantation. 2015;21(2):S284-S5 Department of Haematology, Christian Medical College, Vellore, India	WOS:000348633000407	INT
147.	George B, Viswabandya A, Alex A, Lakshmi K, Abraham A, Ganapule A, et al. The Addition of Meloxicam to G- CSF Is Associated with Good Mobilization Rates, Faster Engraftment and Reduced Toxicity and Hospital Stay after Autologous Stem Cell Transplantation-a Phase II Study. Biology of Blood and Marrow Transplantation. 2015;21(2):S136-S7. Department of Haematology, Christian Medical College, Vellore, India	WOS:000348633000157	INT
148.	<ul> <li>George C(1), Lalitha AR(2), Antony A(2), Kumar AV(2), Jacob KS(3).</li> <li>Antenatal depression in coastal South India: Prevalence and risk factors in the community.</li> <li>Int J Soc Psychiatry. 2015 Oct 6. pii: 0020764015607919. [Epub ahead of print]</li> <li>Author information: <ul> <li>(1)Department of Psychiatry, Dr. SMCSI Medical College, Thiruvananthapuram, India mukkath@yahoo.com.</li> <li>(2)Department of Psychiatry, Dr. SMCSI Medical College, Thiruvananthapuram, India. (3)Department of Psychiatry, Dr. SMCSI Medical College, Thiruvananthapuram, India. (3)Department of Psychiatry, Christian Medical College, Vellore, India.</li> </ul> </li> <li>BACKGROUND: Antenatal depression is a highly prevalent disorder with serious implications on maternal and child outcomes. There are few studies examining this in low-middle-income community settings. AIMS: To determine the prevalence of antenatal depression in women from a coastal rural background in Kerala and Tamil Nadu and to determine its associated factors.</li> <li>MATERIALS AND METHODS: In this cross-sectional community-based study, in 202 antenatal women, standard interview and diagnostic criteria (Clinical Interview Schedule-Revised (CIS-R)) were employed for identifying depression and examining a wide range of putative clinical and sociocultural risk factors including domestic violence. RESULTS: There was a 16.3% prevalence of depression among the 202 women sampled. The possible risk factors after stepwise backward regression were pressure to have a male child, 11.48 (2.36-55.78); financial difficulties, 8.23 (2.49-27.22); non-arranged marriage, 6.05 (1.72-21.23); history of miscarriage-still birth, 5.77 (1.55-21.43) and marital conflict, 9.55 (2.34-38.98). CONCLUSION: There is a need to develop strategies for recognition and appropriate intervention for antenatal depression, in the context of locally relevant risk factors, so as to improve both maternal and child outcomes. © The Author(s) 2015.</li> </ul>	PMID: 26443716	INT

149.	George LR(1), Mariappan R. Capnothorax induced subclavian artery compression. Ann Card Anaesth. 2015 Oct-Dec;18(4):573-4. doi: 10.4103/0971-9784.166468. Author information: (1)Department of Anesthesiology, Christian Medical College, Vellore, Tamil Nadu, India.	PMID: 26440245	NAT
150.	George N; Basu G; Mohapatra A; Zachariah U; Abraham P; Korula A; Varughese S; Jacob CK; Tamilarasi V Adefovir nephrotoxicity in a renal allograft recipient. <u>Indian Journal of Nephrology</u> . 2015 May-Jun; 25(3): 180-3 Department of Nephrology, Christian Medical College, Vellore, Tamil Nadu, India. Department of Nephrology, Christian Medical College, Vellore, Tamil Nadu, India. Department of Nephrology, Christian Medical College, Vellore, Tamil Nadu, India. Department of Hepatology, Christian Medical College, Vellore, Tamil Nadu, India. Department of Clinical Virology, Christian Medical College, Vellore, Tamil Nadu, India. Department of Clinical Virology, Christian Medical College, Vellore, Tamil Nadu, India. Department of Clinical Virology, Christian Medical College, Vellore, Tamil Nadu, India. Department of Nephrology, Christian Medical College, Vellore, Tamil Nadu, India. Department of Nephrology, Christian Medical College, Vellore, Tamil Nadu, India. Department of Nephrology, Christian Medical College, Vellore, Tamil Nadu, India. Department of Nephrology, Christian Medical College, Vellore, Tamil Nadu, India. Department of Nephrology, Christian Medical College, Vellore, Tamil Nadu, India. Department of Nephrology of adefovir, is used in the treatment of lamivudine-resistant hepatitis B virus (HBV) infection. Nephrotoxicity manifesting as proximal renal tubular dysfunction and acute tubular necrosis (ATN) were commonly reported in the past, when higher doses were used for the treatment of human immunodeficiency virus infection. A 31-year-old female was detected to be hepatitis B surface antigen positive months after a kidney transplant. The patient was initiated on lamivudine, but developed resistance after 1 year of treatment, at which time low-dose adefovir was added. The patient developed real allograft dysfunction after 10 months of starting adefovir. Serum creatinine increased from 1.1 mg/dl to 1.9 mg/dl, along with progressively increasing sub-nephrotic proteinuria. Renal allograft biopsy revealed feature	PMID: 26060371 PMCID:PMC4446926	NAT
151.	<ul> <li>George R(1), Jeba J, Ramkumar G, Chacko AG, Tharyan P.</li> <li>Interventions for the treatment of metastatic extradural spinal cord compression in adults.</li> <li>Cochrane Database Syst Rev. 2015 Sep 4;9:CD006716. doi: 10.1002/14651858.CD006716.pub3.</li> <li>Author information: <ul> <li>(1)Palliative Care Unit, Christian Medical College, Vellore, Tamil Nadu, India,</li> <li>632004. Update of Cochrane Database Syst Rev. 2008;(4):CD006716.</li> </ul> </li> <li>BACKGROUND: Metastatic extradural spinal cord compression (MESCC) is treated with radiotherapy, corticosteroids, and surgery, but there is uncertainty regarding their comparative effects. This is an updated version of the original Cochrane review published in theCochrane Database of Systematic Reviews (Issue 4, 2008). OBJECTIVES: To determine the efficacy and safety of radiotherapy, surgery and corticosteroids in</li> </ul>	PMID: 26337716 WOS:000366059800028	INT

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MESCC. SEARCH METHODS: In March 2015, we updated previous searches (July 2008 and December 2013) of the Cochrane Central Register of Controlled Trials (CENTRAL), MEDLINE, EMBASE, CINAHL, LILACS, CANCERLIT, clinical trials registries, conference proceedings, and references, without language restrictions. We also contacted experts for relevant published, unpublished and ongoing trials. SELECTION CRITERIA: Randomised controlled trials (RCTs) of radiotherapy, surgery and corticosteroids in adults with MESCC, DATA COLLECTION AND ANALYSIS: Three authors independently screened and selected trials, assessed risk of bias, and extracted data. We sought clarifications from trial authors. Where possible, we pooled relative risks with their 95% confidence intervals, using a random effects model if heterogeneity was significant. We assessed overall evidence-quality using the GRADE approach. MAIN RESULTS: This update includes seven trials involving 876 (723 evaluable) adult participants (19 to 87 years) in high-income countries. Most were free of the risk of bias. Different radiotherapy doses and schedules Two equivalence trials in people with MESCC and a poor prognosis evaluated different radiotherapy doses and schedules. In one, a single dose (8) Gray (Gy)) of radiotherapy (RT) was as effective as short-course RT (16 Gy in two fractions over one week) in enhancing ambulation in the short term (65% versus 69%; risk ratio (RR) was 0.93, (95% confidence interval (CI) 0.82 to 1.04); 303 participants; moderate quality evidence). The regimens were also equally effective in reducing analgesic and narcotic use (34% versus 40%; RR 0.85, 95% CI 0.62 to 1.16; 271 participants), and in maintaining urinary continence (90% versus 87%; RR 1.03, 95% CI 0.96 to 1.1; 303 participants) in the short term (moderate quality evidence). In the other trial, split-course RT (30 Gy in eight fractions over two weeks) was no different from short-course RT in enhancing ambulation (70% versus 68%; RR 1.02, 95% CI 0.9 to 1.15; 276 participants); reducing analgesic and narcotic use (49% versus 38%; RR 1.27, 95% CI 0.96 to 1.67; 262 participants); and in maintaining urinary continence (87% versus 90%; RR 0.97, 0.93 to 1.02; 275 participants) in the short term (moderate quality evidence). Median survival was similar with the three RT regimens (four months). Local tumour recurrence may be more common with single-dose compared to short-course RT (6% versus 3%; RR 2.21, 95% CI 0.69 to 7.01; 303 participants) and with short-course compared to split-course RT (4% versus 0%; RR 0.1, 95% CI 0.01 to 1.72; 276 participants), but these differences were not statistically significant (low quality evidence). Gastrointestinal adverse effects were infrequent with the three RT regimens (moderate guality evidence), and serious adverse events or post-radiotherapy myelopathy were not noted. We did not find trials comparing radiotherapy schedules in people with MESCC and a good prognosis. Surgery plus radiotherapy compared to radiotherapyLaminectomy plus RT offered no advantage over RT in one small trial with 29 participants (very low quality evidence). In another trial that was stopped early for apparent benefit, decompressive surgery plus RT resulted in better ambulatory rates (84% versus 57%; RR 1.48, 95% CI 1.16 to 1.90; 101 participants, low quality evidence). Narcotic use may also be lower, and bladder control may also be maintained longer than with than RT in selected patients (low quality evidence). Median survival was longer after surgery (126 days versus 100 days), but the proportions surviving at one month (94% versus 86%: RR 1.09, 95% CI 0.96 to 1.24; 101 participants) did not differ significantly (low guality evidence). Serious adverse events were not noted. Significant benefits with surgery occurred only in people younger than 65 years. High dose corticosteroids compared to moderate dose or no corticosteroidsData from three small trials suggest that high-dose steroids may not differ from moderate-dose or no corticosteroids in enhancing ambulation (60% versus 55%; RR 1.08, 95% CI 0.81 to 1.45; 3 RCTs, 105 participants); survival over two vears (11% versus 10%; RR 1.11, 95% CI 0.24 to 5.05; 1 RCT, 57 participants); pain reduction (78% versus 91%; RR 0.86, 95% CI 0.62 to 1.20; 1 RCT, 25 participants); or urinary continence (63% versus 53%; RR 1.18, 95% CI 0.66 to 2.13; 1 RCT, 34 participants; low quality evidence). Serious adverse effects were more frequent with high-dose corticosteroids (17% versus 0%; RR 8.02, 95% CI 1.03 to 62.37; 2 RCTs, 77 participants; moderate quality evidence). None of the trials reported satisfaction with care or quality of life in participants. AUTHORS' CONCLUSIONS: Based on current evidence, ambulant adults with MESCC with stable

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spines and predicted survival of less than six months will probably benefit as much from one dose of radiation (8 Gy) as from two doses (16 Gy) or eight doses (30 Gy). We are unsure if a single dose is as effective as two or more doses in preventing local tumour recurrence. Laminectomy preceding radiotherapy may offer no benefits over radiotherapy alone. Decompressive surgery followed by radiotherapy may benefit ambulant and non-ambulant adults younger than 65 years of age, with poor prognostic factors for radiotherapy, a single area of compression, paraplegia for less than 48 hours, and a predicted survival of more than six months. We are uncertain whether high doses of corticosteroids offer any benefits over moderate doses or indeed no corticosteroids; but high-dose steroids probably significantly increases the risk of serious adverse effects. Early detection; and treatment based on neurological status, age and estimated survival, are crucial with all treatment modalities. Most of the evidence was of low quality. High-quality evidence from more trials is needed to clarify current uncertainties, and some studies are in progress.		
George, A., Mathews, J. E., Sam, D., Beck, M., Benjamin, S. J., Abraham, A., Antonisamy, B., Jana, A. K. and Thomas, N. Comparison of neonatal outcomes in women with gestational diabetes with moderate hyperglycaemia on metformin or glibenclamidea randomised controlled trial Aust N Z J Obstet Gynaecol; 2015, 55 (1): 47-52 BACKGROUND: Two oral hypoglycaemic agents, metformin and glibenclamide, have been compared with insulin in separate large randomised controlled trials and have been found to be as effective as insulin in gestational diabetes. However, very few trials have compared metformin with glibenclamide. MATERIALS AND METHODS: Of 159 South Indian women with fasting glucose >/=5.5 mmol/l and =7.2 mmol/l and/or<br 2-h post-prandial value >/=6.7 mmol/l and =13.9 mmol/l after medical nutritional therapy consented to<br be randomised to receive either glibenclamide or metformin. 80 women received glibenclamide and 79 received metformin. Neonatal outcomes were assessed by neonatologists who were unaware that the mother was part of a study and were recorded by assessors blinded to the medication the mother was given. The primary outcome was a composite of neonatal outcomes namely macrosomia, hypoglycaemia, need for phototherapy, respiratory distress, stillbirth or neonatal death and birth trauma. Secondary outcomes were birthweight, maternal glycaemic control, pregnancy induced hypertension, preterm birth, need for induction of labour, mode of delivery and complications of delivery. RESULTS: Baseline characteristics were similar but for the higher fasting triglyceride levels in women on metformin. The primary outcome was seen in 35% of the glibenclamide group and 18.9% of the metformin group [95% CI 16.1 (2.5, 29.7); P = 0.02]. The difference in outcome related to a higher rate of neonatal hypoglycaemia in the glibenclamide group (12.5%) versus none in the metformin group [95% CI 12.5(5.3, 19.7); P = 0.001]. Secondary outcomes in both groups were similar. CONCLUSION: In a south Indian population with gestational	PMID: 25688819 WOS:000350056700009	INT
George, L., Mathews, V., George, B., Thomas, M. and Pulimood, S. A. Generalized pustular psoriasis following allogeneic stem cell transplantation Clin Exp Dermatol; 2015, 40 (2): 160-2 Development of psoriasis following allogeneic stem cell transplantation (SCT) is rare, and has been described once previously, following SCT from a sibling donor with psoriasis. This condition should be differentiated from psoriasiform graft-versus-host disease (GvHD) by histopathology. We describe a 9-year-old boy who developed generalized pustular psoriasis 2 months after allogeneic SCT from an HLA-identical sibling donor	PMID: 25472781 WOS:000351176400012	INT
	radiation (§ Gy) as from two doses (16 Gy) or eight doses (30 Gy). We are unsure if a single dose is as effective as two or more doses in preventing local tumour recurrence. Laminectomy preceding radiotherapy may offer no benefits over radiotherapy alone. Decompressive surgery followed by radiotherapy may benefit ambulant and non-ambulant adults younger than 65 years of age, with poor prognostic factors for radiotherapy, a single area of compression, paraplegia for less than 48 hours, and a predicted survival of more than six months. We are uncertain whether high doses of corticosteroids offer any benefits over moderate doses or indeed no corticosteroids; but high-dose steroids probably significantly increases the risk of serious adverse effects. Early detection; and treatment based on neurological status, age and estimated survival, are crucial with all treatment modalities. Most of the evidence was of low quality. High-quality evidence from more trials is needed to clarify current uncertainties, and some studies are in progress.	radiation (8 Gy) as from two doses (16 Gy) or eight doses (30 Gy). We are unsure if a single dose is as effective as two or more doses in preventing local tumour recurrence. Laminectomy preceding radiotherapy may offer no benefits over radiotherapy alone. Decompressive surgery followed by radiotherapy may benefit ambulant and non-ambulant and us younger than 65 versor of aqe, with poor prognostic factors for radiotherapy, a single area of compression, paraplegia for less than 48 hours, and a predicted survival of more than is two mores than six months. We are uncertain whether high doses of corticosteroids; but high-dose steroids probably significantly increases the risk of serious adverse effects. Early detection; and treatment based on neurological status, age and estimated survival, are crucial with all treatment modalities. Most of the evidence was of low quality. High-quality evidence from more trials is needed to cartify current uncertainties, and some studies are in progress. George, A., Mathews, J. E., Sam, D., Beck, M., Benjamin, S. J., Abraham, A., Antonisamy, B., Jana, A. K. and Thomas, N. Z J Obstet Gynaecoi; 2015, 55 (1): 47-52 BACKGROUND: Two oral hypoglycaemic agents, metformin and glibenclamide, have been compared with insulin in separate large randomised controlled trials and have been found to be as effective as insulin in gestational diabetes. However, ver yfew few trials have compared metformin with glibenclamide. MATERIALS AND METHODS: Of 129 South Indian women with fasting glucose >/=5.5 mmol/1 and =1.3 mmol/1 and </=1.3 mmol/1</th

154.	<ul> <li>Internet of the skin lesions responded well to treatment with acitretin. Psoriasis should be considered in the differential diagnosis of skin rash following SCT.</li> <li>Address: Department of Dermatology, Christian Medical College, Vellore, Tamil Nadu, India.</li> <li>George, S., Kaliappan, S. P., Kattula, D., Roy, S., Geldhof, P., Kang, G., Vercruysse, J. and Levecke, B. Identification of Ancylostoma ceylanicum in children from a tribal community in Tamil Nadu, India using a semi-nested PCR-RFLP tool</li> <li>Trans R Soc Trop Med Hyg; 2015, 109 (4): 283-5</li> <li>BACKGROUND: It is generally assumed that hookworm infections in humans are caused by Necator americanus and Ancylostoma duodenale. However, previous studies have also reported the presence of the animal hookworm A. ceylanicum in human stools. METHODS: We determined hookworm infections in children in a tribal community in Tamil Nadu, India, using a semi-nested PCR-RFLP approach. RESULTS: The results indicate that human species account for a majority of the hookworm infections (N. americanus 39/41 [95%]; A. duodenale 6/41 [15%]), whereas the animal hookworm A. ceylanicum only accounts for a minority of the infections (5%; 2/41). CONCLUSIONS: The results emphasize the need to consider zoonotic ancylostomiasis while developing strategies to control hookworm infections.</li> <li>Address: Department of Virology, Parasitology and Immunology, Ghent University, Faculty of Veterinary Medicine, Merelbeke, Belgium Division of Gastrointestinal Sciences, Christian Medical College, Vellore, India.</li> <li>Department of Virology and Immunology, Ghent University, Faculty of Veterinary Medicine, Merelbeke, Belgium Division and Gastrointestinal Sciences, Christian Medical College, Vellore, India.</li> </ul>	PMID: 25618132 WOS:000354775900011	INT
155.	Department of Virology, Parasitology and Immunology, Ghent University, Faculty of Veterinary Medicine, Merelbeke, Belgium. <sup>2</sup> Division of Gastrointestinal Sciences, Christian Medical College, Vellore, India George, T. K., Chase, D., Peter, J. V., Satyendra, S., Kavitha, R., George, L. R. and Thomas, V. V. Association between a prolonged corrected QT interval and outcomes in patients in a medical Intensive Care Unit Indian J Crit Care Med; 2015, 19 (6): 326-32 INTRODUCTION: Patients admitted into a medical Intensive Care Unit (ICU) have varying illnesses and risk factors. An electrocardiogram (ECG) is a useful tool to assess the cardiac status. The aim of the study was to determine the prevalence of QT prolongation of the ECG in patients admitted to a medical ICU in a tertiary hospital, to assess outcomes in terms of mortality, cardiovascular events, and duration of ICU stay. MATERIALS AND METHODS: Prospective observational study, 6 months duration, assessing the prevalence of prolonged corrected QT interval (QTc) at admission into a medical ICU. A QTc calculated by Bazett's formula, of >440 ms for males and >460 ms for females was considered prolonged. Details of illness, clinical and lab parameters were monitored. RESULTS: The total number of patients screened was 182. There was a high prevalence of prolonged QTc (30%) on admission to the ICU. This reduced to 19% on day 3 (P = 0.011). In patients with a prolonged QTc the odds ratio of adverse outcome from ICU was 3.17 (confidence interval [CI]: 1.52-6.63) (P = 0.001) and of adverse outcome for hospital stay was 2.27 (CI: 1.11-4.66) (P = 0.014). In the study, 35% of all patients received drugs with QT prolonging action. Of patients with a prolonged QTc is common (30%) in our medical ICU at admission and a large proportion (35%) received drugs capable of	PMID: 26195858 PMCID: PMC4478673	NAT

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	CINC SCIENTINE FODERCATION FOR THE TEAK 2013 DANGART TO DECE		
	prolonging QT interval. These patients with QTc prolongation have a higher odds ratio for adverse outcomes. Address: Department of Medicine, Christian Medical College, Vellore, Tamil Nadu, India. Department of Cardiology Electrophysiology, Christian Medical College, Vellore, Tamil Nadu, India. Department of Critical Care Medicine, Christian Medical College, Vellore, Tamil Nadu, India. Department of Biostatistics, Christian Medical College, Vellore, Tamil Nadu, India. Department of Anaesthesiology, Christian Medical College, Vellore, Tamil Nadu, India.		
156.	<ul> <li>Ghosh U(1), Mathai S.</li> <li>Leprechaunism (Donohue syndrome).</li> <li>Indian Pediatr. 2015 Aug;52(8):724.</li> <li>Author information: <ul> <li>(1)Department of Pediatrics and Pediatric Endocrinology, Christian Medical</li> <li>College, Vellore, Tamil Nadu, India. uurmighosh@yahoo.co.in.</li> </ul> </li> </ul>	PMID: 26388649 WOS:000360092600034	NAT
157.	<ul> <li>Gopal, B., Keshava, S. N. and Selvaraj, D.</li> <li>A rare newly described overgrowth syndrome with vascular malformations-Cloves syndrome Indian J Radiol Imaging; 2015, 25 (1): 71-3</li> <li>There are many overgrowth syndromes described in the literature. Few are associated with vascular malformations. We describe a rare, newly described syndrome with features of overgrowth and vascular malformations.</li> <li>Address: Department of Radiology, Christian Medical College, Vellore, Tamil Nadu, India.</li> <li>Department of Vascular Surgery, Christian Medical College, Vellore, Tamil Nadu, India.</li> </ul>	PMID: 25709171 4329693: 4329693	NAT
158.	Gouse M(1), Arockiaraj J(1), Khanapur R(1), Srinivasan G(1) Transient paraplegia in an elderly due to lightning injury: An unusual cause. J Emerg Trauma Shock. 2015 Oct-Dec;8(4):238-9. doi: 10.4103/0974-2700.166743. (1)Department of Orthopaedics and Spinal Disorder Surgery - Unit 1, Christian Medical College and Hospital, Vellore, Tamil Nadu, India E-mail: gousemohamad@yahoo.com.	PMID: 26604533	NAT
159.	<ul> <li>Gouse, M., Livingston, A., Barnabas, D. and Cherian, V. M.</li> <li>A pelvic pseudotumor in a nonhemophilic patient: an unusual presentation</li> <li>Case Rep Hematol. 2015;2015:359735. doi: 10.1155/2015/359735. Epub 2015 Apr 27.</li> <li>Author information: <ul> <li>(1)Unit 1, Department of Orthopaedics, Christian Medical College, Vellore 632004,India.</li> </ul> </li> <li>Hemophilic pseudotumor is a rare complication of hemophilia, occurring in 1 to 2 percent of individuals with severe factor VIII or factor IX deficiency. A 35-year-old male presented with a swelling in the right lower abdomen for 3 months. There was no history of trauma. Examination revealed a swelling over the right iliac fossa. Right hip showed 30 degrees flexion deformity. Blood investigations like complete blood count, APTT, PT, bleeding and clotting time, and fibrinogen were all normal. Plain radiograph and MRI showed a lytic lesion</li> </ul>	PMID: 26000180 4427095: 4427095	INT

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suggestive of a pseudotumor. Further haematological workup like factors VIII and IX was normal. At 2 years follow-up, there was no recurrence. We report this case of pseudotumour in patient without any bleeding disorder. Such case has not been reported in literature to the best of our knowledge. Address: Unit 1, Department of Orthopaedics, Christian Medical College, Vellore 632004, India.		
Goyal, S., Singh, R. R., Balukrishna, S., Bindra, M. and Backianathan, S. An early and rare second malignancy in a treated glioblastoma multiforme: is it radiation or temozolomide? J Clin Diagn Res; 2015, 9 (4): TD05-7 Glioblastoma Multiforme (GBM) is a high-grade brain tumour with the most dismal prognosis. There are very few reports on second malignancies occurring in GBM patients, as the survival has been short. Second malignancies have been reported after treatment of malignancies with radiation therapy and chemotherapy especially after 5 to 10 y of treatment. Here in, we present a very unique case where a patient succumbed to sinonasal carcinoma occurring one and half years after treatment of GBM. A 17-year-old boy was diagnosed to have GBM and underwent surgery followed by chemoradiation and adjuvant chemotherapy with Temozolamide. He presented with undifferentiated sinonasal carcinoma, in the sinonasal region outside the radiation field within two years of treatment. Here we discuss the histology and possible chances of it being a second malignancy. Address: PG Registrar, Department of Radiation Oncology, Christian Medical College , Vellore, India . Associate Professor, Medical Physics, Department of Radiation Oncology, Christian Medical College , Vellore, India . Associate Professor, Department of Radiation Oncology, Christian Medical College , Vellore, India . Assistant Professor, Department of Radiation Oncology, Christian Medical College , Vellore, India . Assistant Professor, Department of Radiation Oncology, Christian Medical College , Vellore, India . Professor, Department of Radiation Oncology, Christian Medical College , Vellore, India .	PMID: 26023622 4437138: 4437138	NAT
Grassly NC(1). New vaccine strategies to finish polio eradication. Lancet Infect Dis. 2015 Aug;15(8):864-5. doi: 10.1016/S1473-3099(15)00092-4. Epub2015 Jun 17. Author information: (1)Department of Infectious Disease Epidemiology, Imperial College London, St Mary's Hospital, London W2 1PG, UK; Wellcome Trust Research Laboratory, Division of Gastrointestinal Sciences, Christian Medical College, Vellore, Tamil Nadu, India. Electronic address: n.grassly@imperial.ac.uk. Comment on Lancet Infect Dis. 2015 Aug;15(8):898-904. Lancet Infect Dis. 2015 Aug;15(8):889-97.	PMID: 26093978 WOS:000358182500002	INT
<ul> <li>Grassly, N. C., Kang, G. and Kampmann, B.</li> <li>Biological challenges to effective vaccines in the developing world</li> <li><u>Philos Trans R Soc Lond B Biol Sci.</u> 2015 Jun 19;370(1671). pii: 20140138. doi: 10.1098/rstb.2014.0138.</li> <li>The reason for holding a meeting to discuss biological challenges to vaccines is simple: not all vaccines work equally well in all settings. This special issue reviews the performance of vaccines in challenging environments, summarizes current thinking on the reasons why vaccines underperform and considers what approaches are necessary to understand the heterogeneity in responses and to improve vaccine immunogenicity and efficacy.</li> <li>Address: Department of Infectious Disease Epidemiology, Imperial College London, St Mary's Hospital,</li> </ul>	PMID: 25964451 PMCID: PMC4527384 WOS:000355575800001	INT
	follow-up, there was no recurrence. We report this case of pseudotumour in patient without any bleeding disorder. Such case has not been reported in literature to the best of our knowledge.         Address: Unit 1, Department of Orthopaedics, Christian Medical College, Vellore 632004, India.         Goyal, S., Singh, R. R., Balukrishna, S., Bindra, M. and Backianathan, S.         An early and rare second malignancy in a treated glioblastoma multiforme: is it radiation or temozolomide?         J Clin Diagn Res; 2015, 9 (4): TDD5-7         Glioblastoma Multiforme (GBM) is a high-grade brain tumour with the most dismal prognosis. There are very few reports on second malignancies occurring in GBM patients, as the survival has been short. Second malignancies occurring one and half years after treatment of GBM. A 17-year-old boy was diagnosed to have GBM and underwent surgery followed by chemoradiation and adjuvant chemotherapy with Temozolamide. He presented with undifferentiated sinonasal carcinoma, in the sinonasal region outside the radiation field within two years of treatment of Radiation Oncology, Christian Medical College , Vellore, India .         Associate Professor, Medical Physics, Department of Radiation Oncology, Christian Medical College , Vellore, India .         Associate Professor, Department of Pathology, Christian Medical College , Vellore, India .         Associate Professor, Department of Radiation Oncology, Christian Medical College , Vellore, India .         Associate Professor, Department of Radiation Oncology, Christian Medical College , Vellore, India .         Associate Professor, Department of Radiation Oncology, Christian Medical College , Vellore, India .         Grassly NC(1	suggestive of a pseudotumor. Further haematological workup like factors VIII and IX was normal. At 2 years follow-up, there was no recurrence. We report this case of pseudotumor in patient without any bleeding disorder. Such case has not been reported in iterature to the best of our knowledge. Address: Unit J, Department of Orthopadics, Christian Medical College, Vellore 632004, India.         PMID: 26023622           Goyal, S., Singh, R., Balukrishna, S., Bindra, M. and Backianathan, S. An early and rare second malignance is a treated glioblastoma multiforme: is it radiation or temozolomide? J Clin Diagn Res; 2015, 9 (4): TD05-7         PMID: 26023622           Glioblastoma Multiforme (GBM) is a high-grade brain tumour with the most dismal prognosis. There are very few reports on second malignancies ourting in GBM patients, as the survival has been short. Second malignancies have been reported after treatment of GBM. A 1.7-year-old boy was diagnosed to have GBM and underwent surgery followed by chemesent a very unique case where a patient succurbed to sinonasal carcinoma occurring one and half years after treatment of GBM. A 1.7-year-old boy was diagnosed to have GBM early other stores of treatment. Here we discuss the histology and possible chances of it being a second malignancy. Address: FO Registrar, Department of Radiation Oncology, Christian Medical College , Vellore, India . Assistant Professor, Department of Radiation Oncology, Christian Medical College , Vellore, India . Assistant Professor, Department of Radiation. Lancet Infect Dis. 2015 Aug;15(8):864-5. doi: 10.1016/S1473-3099(15)00092-4. Epub2015 Jun 17. Author information: (1)Department of Infectious Disease Epidemiology, Imperial College London, St Mary's Hospital, London W2 1PG, UK; Wellome Trust Research Laboratory, Division G Gastrointestial Sciences, Christian Medical College, Vellore, Tamil Nadu, India. Electronic address: n.grassif@miperial.ac.uk.

<ul> <li>Norfolk Place, London W2 1PG, UK The Welkome Trust Research Laboratory, Division of Gastrointestinal Sciences, Christian Medical College, Vellore, Tamil Nadu 632004, India. Department of Medicine, Imperial College London, St Mary's Hospital, Norfolk Place, London W2 1PG, UK Vaccinology Theme, MRC Unit, The Gambia, Atlantic Road, Fajara, The Gambia.</li> <li>163. Gupta D(1), Bose A(2), Rose W(3).</li> <li>Acquired Neonatal Chikungunya Encephalopathy.</li> <li>Indian J Pediatr. 2015 Nov;82(11):1065-6. doi: 10.1007/s12098-015-1751-1. Epub2015 Apr 14.</li> <li>Author information:         <ul> <li>(1)Department of Community Health, Christian Medical College and Hospital, Vellore, 632002, Tamil Nadu, India.</li> <li>(1)Department of Community Health, Christian Medical College and Hospital, Vellore, 632002, Tamil Nadu, India.</li> <li>(1)Department of Poeliatrics, Christian Medical College and Hospital, Vellore, 632002, Tamil Nadu, India.</li> <li>(1)Department of Poeliatrics, Christian Medical College and Hospital, Vellore, 632002, Tamil Nadu, India.</li> <li>(2)Department of Poeliatrics, Christian Medical College and Hospital, Vellore, 632002, Tamil Nadu, India.</li> <li>(3)Department of Community Medicine, Christian Medical College and Hospital, Vellore, India.</li> <li>(2)Department of Community Medicine, Christian Medical College and Hospital, Vellore, India.</li> <li>(3)Department of Community Medicine, Christian Medical College and Hospital, Vellore, India.</li> <li>(3)Department of Community Medicine, Christian Medical College and Hospital, Vellore, India.</li> <li>(3)Department of Cardiology, Christian Medical College and Hospital, Vellore, India.</li> <li>(3)Department of Cardiology, Christian Medical College and Hospital, Vellore, India.</li> <li>(3)Department of Cardiology, Christian Medical College and Hospital, Vellore, India.</li></ul></li></ul>		
<ul> <li>Acquired Neonatal Chikungunya Encephalopathy.</li> <li>Indian J Pediatr. 2015 Nov;82(11):1065-6. doi: 10.1007/s12098-015-1751-1. Epub2015 Apr 14.</li> <li>Author information:         <ul> <li>(1)Department of Community Health, Christian Medical College and Hospital, Vellore, 632002, Tamil Nadu, India. (a)Department of Community Health, Christian Medical College and Hospital, Vellore, 632002, Tamil Nadu, India.</li> <li>(3)Department of Pediatrics, Christian Medical College and Hospital, Vellore, 7 amil Nadu, India.</li> <li>(4) Gupta D(1), Chaturved IS(2), Chandry S(3), Agarwal 1(1).</li> <li>Role of 24-h ambulatory blood pressure monitoring in children with chronic kidneydisease.</li> <li>Indian J Nephrol. 2015 Nov-Dec;25(6):355-61. doi: 10.4103/0971-4065.148305.</li> <li>Department of Community Medicine, Christian Medical College and Hospital, Vellore, India.</li> <li>(3)Department of Cardiology, Christian Medical College and Hospital, Vellore, India.</li> <li>(3)Department of Cardiology, Christian Medical College and Hospital, Vellore, India.</li> <li>(3)Department of Cardiology, Christian Medical College and Hospital, Vellore, India.</li> <li>(3)Department of Cardiology, Christian Medical College and Hospital, Vellore, India.</li> <li>(3)Department of Cardiology, Christian Medical College and Hospital, Vellore, India.</li> <li>(3)Department of Cardiology, Christian Medical College and Hospital, Vellore, India.</li> <li>(3)Department of Cardiology, Christian Medical College and Hospital, Vellore, India.</li> <li>(3)Department of Cardiology, Christian Medical College and Hospital, Vellore, India.</li> <li>(3)Department of Cardiology, Christian Medical College and Hospital, Vellore, India.</li> <li>(3)Department of Cardiology, Christian Medical College and Hospital, Vellore, India.</li> <l< th=""><th></th><th></th></l<></ul></li></ul>		
<ul> <li>Role of 24-h ambulatory blood pressure monitoring in children with chronic kidneydisease.</li> <li>Indian J Nephrol. 2015 Nov-Dec;25(6):355-61. doi: 10.4103/0971-4065.148305.</li> <li>Department of Community Medicine, Christian Medical College and Hospital, Vellore, India. (2)Department of Pediatric Nephrology, Christian Medical College and Hospital, Vellore, India. (3)Department of Cardiology, Christian Medical College and Hospital, Vellore, India.</li> <li>Hypertension is common in children with chronic kidney disease (CKD) and is a major determinant of CKD progression. Ambulatory blood pressure monitoring (ABPM) has been proposed to be better in detecting hypertension as compared to casual blood pressure (CBP). This study aims to study the usefulness of ABPM in detecting masked hypertension, evaluating the adequacy of blood pressure (BP) control and predicting left ventricular hypertrophy (LVH) amongst children with CKD. A prospective cross-sectional study of 46 children with stage 3-5 CKD was conducted at the Pediatric Nephrology department of a tertiary hospital in South India. All children underwent CBP, ABPM and an echocardiography. Results werecategorized as normal BP; confirmed hypertension; masked hypertension and whitecoat hypertension. Out of 46 children studied, 11 were undergoing dialysis. While39.1% children had stage 3 and 4 CKD each, 21.7% had stage 5 CKD. Maskedhypertension was detected in 19.6% and 21.7% had confirmed hypertension.Thirdr-four (73.9%) children were already receiving antihypertensive medication. In these, CBP was elevated in 23.5% and ABP in 47%. Among children with hypertension as defined by ABPM, LVH was detected in 32.2%. We found that higher the number of abnormal ABPM indices (assessed by BP Index, nocturnal dipping and BP Load) higher the likelihood of LVH (P = 0.046). ABPM is better in detectinghypertension and monitoring adequacy of treatment in children with CKD. The high prevalence of masked hypertension and its association with LVH supports e</li></ul>	PMID: 25865267 WOS:000366811200018	NAT
	PMID: 26664211	NAT
Cervical intramedullary schwannoma mimicking a glioma Asian J Neurosurg; 2015, 10 (1): 42-4 We present a case of a cervical intramedullary schwannoma (IS), which resembled a glioma on radiology.	PMID: 25767576 PMCID:PMC4352628	NAT

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	Somatic and root pain, the most common presenting complaints of IS, were lacking in our patient, and the characteristic magnetic resonance finding of an enhancing thickened nerve root in IS, was absent in our case. Preoperative diagnosis of a cervical IS is not always possible. Complete tumor resection is the ideal treatment for IS. Intraoperative frozen section can be a useful for decision making though the tumor-cord plane will ultimately decide if the tumor can be radically excised. Address: Department of Neurological Sciences, Christian Medical College, Vellore, Tamil Nadu, India. Department of Pathology, Christian Medical College, Vellore, Tamil Nadu, India. Department of Radiodiagnosis, Christian Medical College, Vellore, Tamil Nadu, India.		
166.	<ul> <li>Gupta, M. and Bindra, M. S.</li> <li>Hyaline globules in fine-needle aspiration smears of salivary gland neoplasms</li> <li>BMJ Case Rep; 2015, 2015 Most salivary gland neoplasms can be accurately diagnosed on fine-needle aspiration cytology. Few cases present with overlapping cytomorphological features, so accurate distinction in these cases may be difficult. We describe a case of pleomorphic adenoma that had a close resemblance to adenoid cystic carcinoma on smears due to presence of numerous hyaline globules and bare nuclei. Careful analysis of cellular details along with corroborative clinical evidence clinched the correct diagnosis. This article discusses cytological features of salivary gland tumours in which hyaline globules can be seen on smears.</li> <li>Address: Department of General Pathology, Christian Medical College, Vellore, Tamil Nadu, India.</li> </ul>	PMID: 25750224	INT
167.	Gupta, M. and Kiruthiga, K. G. Malignant mixed Mullerian tumour of uterus secondary to tamoxifen therapy for hormone responsive breast cancer BMJ Case Rep; 2015, 2015 Tamoxifen is used in the treatment of hormone responsive breast cancer because of its antiestrogenic effect. However, it also has an estrogenic effect on the uterus, thereby increasing the risk of endometrial hyperplasia, endometrial polyp and endometrial neoplasms such as endometrial adenocarcinoma and malignant mixed Mullerian tumour (MMMT). This case describes the possible pathogenesis and risk of developing MMMT due to long-term tamoxifen intake in hormone responsive breast cancer. Address: Department of General Pathology, Christian Medical College, Vellore, Tamil Nadu, India.	PMID: 26123463	INT
168.	<ul> <li>Halder A(1), Vijayselvi R(2), Jose R(2).</li> <li>Changing perspectives of infectious causes of maternal mortality.</li> <li>J Turk Ger Gynecol Assoc. 2015 Nov 2;16(4):208-13. doi: 10.5152/jtgga.2015.0134. eCollection 2015.</li> <li>(1)Department of Obstetrics and Gynecology, Christian Medical College, Vellore, India ; Department of Obstetrics and Gynecology, All India Institute of Medical Sciences, Bhopal, India. (2)Department of Obstetrics and Gynecology, Christian Medical College, Vellore, India.</li> <li>OBJECTIVE: Infections significantly contribute to maternal mortality. There is a perceived change in the spectrum of such infections. This study aims to estimate the contribution of various types of infections to maternal mortality.</li> <li>MATERIAL AND METHODS: We retrospectively reviewed records of maternal death cases that took place between 2003 and 2012 in the Christian Medical College, Vellore, India. The International Classification of Diseases-Maternal Mortality was used to classify the causes of deaths and World Health Organization nearmiss criteria were used to identify organ dysfunction that occurred before death. Infections during pregnancy were divided into three groups, i.e., pregnancy-related infections, pregnancy-unrelated infections, and nosocomial infections. RESULTS: In this study, 32.53% of maternal deaths were because of some type of</li> </ul>	PMC4664211 PMID: 26692770	INT

	CINE SELEVITIE TOBLICATION TOK THE TEAK 2013 (JANOAKT TO DEC	/	
	infection as the primary cause. The contribution of pregnancy-related infections was comparable with that of pregnancy-unrelated infections (16.03% vs. 16.50%). Metritis with pelvic cellulitis, septic abortions, tuberculosis, malaria, scrub typhus, and H1N1 influenza (influenza A virus subtype) were among the most commonly encountered causes of maternal death due to infections. Another 7.07% of cases developed severe systemic infection during the course of illness as nosocomial infection. A significant majority of mothers were below 30 years of age, were primiparae, had advanced gestational age, and had operative delivery. Cardiovascular and respiratory system dysfunctions were the most common organ dysfunctions encountered. CONCLUSION: The contribution of pregnancy-unrelated infections to maternal deaths is significant. Control of these diverse community-acquired infections holds the key to a reduction in maternal mortality along with the promotion of clean birthing practices. Nosocomial infections should not be underestimated as a contributor to maternal mortality.		
169.	<ul> <li>Hamilton CD(1), Swaminathan S(2), Christopher DJ(3), Ellner J(4), Gupta A(5), Sterling TR(6), Rolla V(7), Srinivasan S(8), Karyana M(9), Siddiqui S(10), Stoszek SK(11), Kim P(8).</li> <li>RePORT International: Advancing Tuberculosis Biomarker Research Through Global Collaboration.</li> <li>Clin Infect Dis. 2015 Oct 15;61Suppl 3:S155-9. doi: 10.1093/cid/civ611.</li> <li>Author information:         <ul> <li>(1)Scientific Affairs, Global Health, Population and Nutrition, FHI 360 Department of Medicine, Division of Infectious Diseases, Duke University School of Medicine, Durham, North Carolina. (2)Department of Clinical Research, National Institute for Research in Tuberculosis, Chennai and Pune. (3)Pulmonary Medicine, Christian Medical College, Vellore, India. (4)School of Medicine, Boston University, Massachusetts. (5)School of Medicine, Johns Hopkins University, Baltimore, Maryland. (6)Department of Medicine, Division of Infectious Diseases, Vanderbilt University School of Medicine, Nashville, Tennessee. (7)National Institute of Allergy and Infectious Diseases, National Institutes of Health. (9)Collaborative Clinical Research Branch, Division of Clinical Research, National Institutes of Health. (9)Collaborative Clinical Research Branch, Division of Clinical Research, National Institutes of Health. (10)Collaborative Clinical Research and Development, Indonesia Ministry of Health, Jakarta, Indonesia.</li> <li>(10)Collaborative Clinical Research is hampered by a lack of reliable biomarkers that predict progression from latent to active tuberculosis, and subsequent cure, relapse, or failure. Regional ChePORT India, RePORT India, RePORT India, RePORT India, RePORT India, RePORT Indeenset in Science Report Inzervensis (RePORT) International represents a consortium of regional cohorts (RePORT India, RePORT Rezzil, and RePORT Indenseia) that are linked through the implementation of a Common Protocol for data and specimen collection, and are poised to address this critical research</li></ul></li></ul>	PMID: 26409277 WOS:000362952900008.	INT

170.	<ul> <li>Hashimoto, N., Fujisawa, D., Giasuddin, N. A., Kenchaiah, B. K., Narmandakh, A., Dugerragchaa, K., Tamrakar, S. M., Adhikari, S. R. and Sartorius, N.</li> <li>Pathways to mental health care in Bangladesh, India, Japan, Mongolia, and Nepal Asia Pac J Public Health; 2015, 27 (2): NP1847-57</li> <li>INTRODUCTION: As mental health systems are still developing in many Asian countries, knowledge of the pathways to mental health care (MHC) in this region would be very important. AIMS: To clarify the pathways to MHC in 5 Asian countries. METHOD: A total of 50 new subjects attending each institution were interviewed. Pathway diagrams, the patterns and duration of care seeking, and the previous treatment were compared. RESULTS: Four major pathways were direct access, referrals from private practitioners, referrals from general hospitals, and referrals from native or religious healers. General practitioners did not play a pivotal role in any of the areas, whereas native or religious healers. General practitioners did not play a pivotal role in any of the areas, whereas native or religious healers and an important place in all areas except for Yokohama, Japan. Family members had a significant impact on the decision to seek MHC. CONCLUSIONS: Studies of pathways to MHC in Asian countries are feasible and can provide data of interest in the organization of care.</li> <li>Address: Hokkaido University, Sapporo, Japan Japan Young Psychiatrists Organization (JYPO), Tokyo, Japan hashinao@vega.ocn.ne.jp.</li> <li>Japan Young Psychiatrists Organization (JYPO), Tokyo, Japan National Cancer Center East, Kashiwa, Japan. Mental Hospital, Pabna, Bangladesh South Asian Association for Regional Cooperation, Association of Young Psychiatrists and Trainees Mumbai, India.</li> <li>South Asian Association for Regional Cooperation, Association of Young Psychiatrists and Trainees Mumbai, India Christian Medical College, Vellore, India.</li> <li>Mongolian National Mental Health Center, Ulaanbaatar, Mongolia.<!--</th--><th>PMID: 21159690 WOS:000352586200173</th><th>INT</th></li></ul>	PMID: 21159690 WOS:000352586200173	INT
171.	<ul> <li>Hazra D(1), Sen I(1), Stephen E(1), Agarwal S(1), Nair SC(2), Mammen J(2).</li> <li>Evaluation of Factor VIII as a Risk Factor in Indian Patients with DVT.</li> <li>Surg Res Pract. 2015;2015:307879. doi: 10.1155/2015/307879. Epub 2015 Sep 1.</li> <li>Author information: <ul> <li>(1)Department of Vascular Surgery, The Christian Medical College, Vellore 632004, India. (2)Department of Transfusion Medicine and Immunohaematology, The Christian Medical College, Vellore 632004, India.</li> <li>Introduction. Elevated factor VIII population in the Indian population has not been studied as a possible risk factor for deep vein thrombosis (DVT). High factor VIII level is considered a predisposing factor for DVT and its recurrence.</li> <li>However it is known to vary between populations and its exact role in the etiopathogenesis of thrombophilia remains unknown. Material and Methods. Factor VIII levels of patients with DVT who had undergone a prothrombotic workup as a part of their workup was compared to normal age</li> </ul> </li> </ul>	PMID: 26421318	INT

	matched controls in a 1:3 ratio. Results. There were 75 patients with DVT who had undergone a prothrombotic workup in the course of their treatment for lower limb DVT. In these, 64% had levels of factor VIII more than 150 as compared to 63% of normal controls (p > 0.05, not significant). Conclusion. Elevated factor VIII in the Indians may not be associated with the same thrombotic risk as seen in the West. We find a variation in the levels of factor VIII with a different "normal" than what is reported in other populations. This needs further study to elucidate the role of factor VIII in the evaluation and treatment of thrombophilia.		
172.	<ul> <li>Hernandez AL(1), Karthik R, Sivasubramanian M, Raghavendran A, Gnanamony M,Lensing S, Lee JY, Kannangai R, Abraham P, Mathai D, Palefsky JM.</li> <li>Prevalence of anal HPV infection among HIV-positive men who have sex with men in India.</li> <li>J Acquir Immune Defic Syndr. 2015 Sep 14. [Epub ahead of print]</li> <li>Author information:         <ul> <li>(1)1Department of Medicine, University of California, San Francisco, AND School of Public Health, Department of Epidemiology, University of California, Berkeley 2Department of Medicine, Christian Medical College, Vellore, India 3The Humsafar Trust, Mumbai, India 4Department of Clinical Virology, Christian Medical College, Vellore, India 5Department of Cancer Biology and Pharmacology, University of Illinois Chicago 6Department of Biostatistics, University of Arkansas for Medical Sciences 7Department of Biostatistics, University of Arkansas for Medical Sciences 8Department of Clinical Virology, Christian Medical College, Vellore, India 10Apollo</li> <li>Institute of Medical Sciences and Research, Hyderabad, India 11Department of Medicine, University of California, San Francisco.</li> </ul> </li> <li>BACKGROUND: India has a large population of HIV-positive individuals, including men who have sex with men (MSM) and the incidence of human papillomavirus (HPV)-related cancers is high. In developed countries, HIV-positive MSM exhibit the highest prevalence of anal HPV infection using L1-HPV DNA PCR with probes specific for 29 types and a mixture of 10 additional types. CD4+ level and plasma HIV viral load were measured. Participants completed an interviewer-administered questionnaire including a sexual history. RESULTS: The prevalence of anal HPV infection (R: 0.6 (0.4-1.0). Having an increased number of vaginal sex partners lowered risk of any anal HPV 16 (RI: 0.5 1.8-107). CONCLUSIONS: Almost all India HIV-positive MSM had anal HPV infection. Ever having receptive sex increased risk of any anal HPV tof</li></ul>	PMID: 26379067	INT
	infection in India should consider potential differences in HPV type distribution among HIV-infected MSM when designing interventions.		
173.	Ibrahim M(1), Arockiaraj J(1), Amritanand R(1), Venkatesh K(1), David KS(1). Recurrent Lumbar Disc Herniation: Results of Revision Surgery and Assessment of Factors that May Affect the Outcome. A Non-Concurrent Prospective Study.	PMID: 26435791	INT

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	Asian Spine J. 2015 Oct;9(5):728-36. doi: 10.4184/asj.2015.9.5.728. Epub 2015 Sep22.		
	Author information: (1)Department of Orthopaedics, Spinal Disorders Surgery Unit, Christian Medical College, Vellore, India.		
	STUDY DESIGN: Non-concurrent prospective study. PURPOSE: To determine the functional outcome after open 'fragment' discectomy for recurrent lumbar disc herniation, and to analyze the factors that may affect the outcome. OVERVIEW OF LITERATURE: Literature search revealed only four studies where the factors affecting the outcome of a revision surgery for recurrent disc herniation have been evaluated. None of these studies analyzed for diabetes, disc degeneration and facet arthropathy. We have analyzed these features, in addition to the demographic and clinical factors. METHODS: Thirty-four patients who underwent the procedure were followed up for an average period of 27.1 months. The Japanese Orthopaedic Association (JOA) score and Oswestry disability index (ODI) were used to assess the functional outcome. Age, gender, smoking, diabetic status, duration of recurrent symptoms, the side of leg pain, level and type of disc herniation, degree of disc degeneration on magnetic resonance imaging, and facet joint arthritis before first and second surgeries, were analyzed as factors affecting the outcome. RESULTS: The average Hirabayashi improvement in JOA was 56.4%. The mean preoperative ODI was 74.5% and the mean ODI at final follow-up was 32.2%, the difference being statistically significant (p<0.01). Patients with diabetes, all of whom had poor long term glycemic control, were found to have a poor outcome in terms of ODI improvement (p=0.03). CONCLUSIONS: Open fragment discectomy is a safe and effective surgical technique for the treatment of recurrent disc herniation. However, patients with uncontrolled diabetes may have a less favorable outcome.		
174.	Iqbal, A., Naik, R. and Mohanan, P. K. Gastric Gangrene Due to a Strangulated Paraesophageal Hernia-a Case report Indian J Surg; 2015, 77 (Suppl 1): 66-8 Paraesophageal hernias are considered to be benign entities which are usually managed conservatively. We present a case of a middle-aged male with no previous history of esophageal hernia who presented with acute chest and abdominal pain. The patient was diagnosed to have a type 2 paraesophageal hernia with gastro-thorax. Laparotomy was performed during which it was found that herniated segment of the stomach had strangulated and gangrenous. Thoracotomy was performed and gangrenous stomach segment resected. A roux-en-Y esophago-jejunostomy was performed. Diaphragmatic defect was plicated. Patient recovered with adequate post operative support. A review of the literature revealed that paraesophageal hernias presenting as acute abdominal pain is a rare clinical entity and those with gastric gangrene is even rarer, with high mortality rates. We suggest that paraesophageal hernias require to be managed actively considering the seriousness of potential complications and the relative safety of newer elective surgical modalities. A high index of suspicion is needed in order to avoid missing this diagnosis in patients presenting with chest pain. Address: Department of Surgery, Government Medical College Thrissur, Thrissur, Kerala India. Department of Cardiovascular and Thoracic Surgery, Christian Medical College Vellore, Tamilnadu, Kerala India.	PMID: 25972648 PMCID: 4425756 WOS:000354195000024	NAT
175.	Irodi, A., Prabhu, S. M., John, R. A. and Leena, R. Congenital bronchopulmonary vascular malformations, "sequestration" and beyond Indian J Radiol Imaging; 2015, 25 (1): 35-43 Congenital bronchopulmonary vascular malformations (BPVMs) include a broad spectrum of disorders that involve abnormalities in the form of disruptions of normal communication and/or presence of abnormal	PMID: 25709164 4329686: 4329686	NAT
	communication between one or more of the three main systems of the lung, namely, the airways, arteries,		

	and veins. The establishment of abnormal communications by means of small openings or anastomoses is termed as malinosculation. The aim of this pictorial essay is to illustrate the imaging appearances of the various types of pulmonary malinosculation. Address: Department of Radiology, Christian Medical College, Vellore, Tamil Nadu, India.		
176.	Isaac BT(1), Thangakunam B(1), Cherian RA(2), Christopher DJ(1). The correlation of symptoms, pulmonary function tests and exercise testing with high-resolution computed tomography in patients with idiopathic interstitial pneumonia in a tertiary care hospital in South India. Lung India. 2015 Nov-Dec;32(6):584-8. doi: 10.4103/0970-2113.168131. (1)Department of Pulmonary Medicine, Christian Medical College, Vellore, Tamil Nadu, India. (2)Department of Radiology, Christian Medical College, Vellore, Tamil Nadu, India. (1)Department of Pulmonary Medicine, Christian Medical College, Vellore, Tamil Nadu, India. (2)Department of Pulmonary Medicine, Christian Medical College, Vellore, Tamil Nadu, India. (1)Department of Pulmonary Medicine, Christian Medical College, Vellore, Tamil Nadu, India. (2)Department of Radiology, Christian Medical College, Vellore, Tamil Nadu, India. (1)Department of pulmonary Medicine, Christian Medical College, Vellore, Tamil Nadu, India. (2)Department of Pulmonary Medicine, Christian Medical College, Vellore, Tamil Nadu, India. (1)Department of Pulmonary Medicine, Christian Medical College, Vellore, Tamil Nadu, India. (2)Department of Pulmonary Medicine, Christian Medical College, Vellore, Tamil Nadu, India. (1)Department of Pulmonary Medicine, Christian Medical College, Vellore, Tamil Nadu, India. (1)Department of Pulmonary Medicine, Christian Medical College, Vellore, Tamil Nadu, India. (1)Department of Pulmonary Medicine, Christian Medical College, Vellore, Tamil Nadu, India. (1)Department of pulmonary Medicine, Christian Medical College, Vellore, Tamil Nadu, India. (1)Pilmit is unclear which parameters of pulmonary function tests (PFT) and dyspnea were graded for severity and duration. Pulmonary function tests and exercise testing parameters were noted. HRCT was scored based on an alveolar score, an interstitial score and a total score. The HRCT was correlated with each of the clinical and physiologic parameters. Pearson's/Spearman's correlation coefficient was used	PMID: 26664164	NAT
	Symptoms, PFT and exercise testing had good correlation with HRCT.DLCO corrected % of predicted correlated best with HRCT.		
177.	Isaac, B. T., Christopher, D. J., Thangakunam, B. and Gupta, M. Tracheal schwannoma: Completely resected with therapeutic bronchoscopic techniques Lung India; 2015, 32 (3): 271-3 Tracheal schwannomas are rare benign tumors of the trachea. There are only a few reported cases in the literature. Surgeons have generally resected these tumors, whereas bronchoscopists have attempted to remove them bronchoscopically. We report a case of tracheal schwannoma which was completely resected using bronchoscopic techniques. Address: Department of Pulmonary Medicine, Christian Medical College, Vellore, Tamil Nadu, India. Department of General Pathology, Christian Medical College, Vellore, Tamil Nadu, India.	PMID: 25983416 4429392: 4429392	NAT
178.	Ismail, A. M., Raghavendran, A., Sivakumar, J., Radhakrishnan, M., Rose, W. and Abraham, P. Mother to child transmission of hepatitis B virus: a cause for concern <u>Indian Journal of Medical Microbiology</u> . 2015 Feb; 33 Suppl: 140-3 Mother to child transmission of hepatitis B virus (HBV) is an important public health issue. India introduced HBV vaccine in 10 states as part of its Universal Immunization Program (UIP). Here we show evidence of mother-to-child transmission of HBV in three families from Jharkhand and Bihar states where HBV vaccination is not yet included in the UIP. This report illustrates the need for active screening of HBV in	PMID: 25657134 WOS:000349843900030	NAT

	pregnant women and implementation of HBV vaccine across all states in India to reduce the burden of disease.		
	Address: Department of Clinical Virology, Christian Medical College, Vellore - 632004, Tamil Nadu, India.		
179.	Jacob KS(1). Patient experience and the psychiatric discourse: Attempting to bridge incommensurable worlds. Indian J Psychiatry. 2015 Oct-Dec;57(4):423-6. doi: 10.4103/0019-5545.171847.	PMID: 26816435 PMCID: PMC4711248 WOS:000366495600020	NAT
	Author information: (1)Department of Psychiatry, Christian Medical College, Vellore, Tamil Nadu, India.		
	Divergent worldviews, incommensurable frameworks, contrasting models, distinct foci, dissimilar logic, different realities, disparate cultures, and complex patient-physician interaction impact the clinical process and problematize decision-making. Attempting to understand the disease-illness divide, engage patient perspectives, go beyond the traditional biomedical understanding of mental illness and negotiate a shared plan for treatment are serious challenges for psychiatry. The challenge for psychiatrists is to appreciate patient reality and negotiate a shared plan of treatment.		
180.	Jacob, J. J., Stephen, C., Paul, T. V., Thomas, N., Oommen, R. and Seshadri, M. S. No impact of dietary iodine restriction in short term development of hypothyroidism following fixed dose radioactive iodine therapy for Graves' disease Indian J Endocrinol Metab; 2015, 19 (1): 60-5 BACKGROUND: The increased incidence of autoimmune thyroid disease with increasing dietary iodine intake has been demonstrated both epidemiologically and experimentally. The hypothyroidism that occurs in the first year following radioactive iodine therapy is probably related to the destructive effects of the radiation and underlying ongoing autoimmunity. OBJECTIVE: To study the outcomes at the end of six months after fixed dose I, (131)therapy for Graves' disease followed by an iodine restricted diet for a period of six months. MATERIALS AND METHODS: Consecutive adult patients with Graves' disease planned for I(131) therapy were randomized either to receive instructions regarding dietary iodine restriction or no advice prior to fixed dose (5mCi) 1(131) administration. Thyroid functions and urinary iodine indices were evaluated at 3(rd) and 6(th) month subsequently. RESULTS: Forty seven patients (13M and 34F) were assessed, 2 were excluded, 45 were randomized (Cases 24 and Controls 21) and 39 patients completed the study. Baseline data was comparable. Median urinary iodine concentration was 115 and 273 mug/gm creat ( $p = 0.00$ ) among cases and controls respectively. Outcomes at the 3(rd) month were as follows (cases and controls); Euthyroid (10 and 6: $P = 0.24$ ), Hypothyroid (3 and 5: $P = 0.38$ ) and Hyperthyroid (7 and 8: $P = 0.64$ ). Outcomes at the end of six months were as follows (cases and controls); Euthyroid (10 and 5: $P = 0.12$ ), Hypothyroid (3 and 5: $P = 0.38$ ) and Hyperthyroid patients 5 (cases 1 and controls 4: $P$ = 0.13) required thyroxine replacement. CONCLUSIONS: There was no statistical significant difference in the outcome of patients with dietary iodine restriction following I(131) therapy for Graves' disease. Ad	PMID: 25593828 4287782: 4287782	NAT
181.	Jacob, K. S. Recovery model of mental illness: a complementary approach to psychiatric care Indian J Psychol Med; 2015, 37 (2): 117-9	PMID: 25969592 4418239: 4418239	NAT
	Address: Professor of Psychiatry, Christian Medical College, Vellore, Tamil Nadu, India. E-mail:		

	ksjacob@cmcvellore.ac.in.		
182.	Jacob, K. S. The challenge of medical diagnosis: A primer on principles, probability, process and pitfalls Natl Med J India; 2015, 28 (1): 24-8 Address: Department of Psychiatry, Christian Medical College, Vellore 632002, Tamil Nadu, India; ksjacob@cmcvellore.ac.in.	PMID: 26219318 WOS:000358813500008.	NAT
183.	<ul> <li>Jahan A(1), Prabha R(2), Chaturvedi S(3), Mathew B(2), Fleming D(2), Agarwal I(4).</li> <li>Clinical efficacy and pharmacokinetics of tacrolimus in children with steroid-resistant nephrotic syndrome.</li> <li>Pediatr Nephrol. 2015 Nov;30(11):1961-7. doi: 10.1007/s00467-015-3133-3. Epub2015 Jul 2.</li> <li>Author information:         <ul> <li>(1)Paediatric Nephrology Unit, Department of Paediatrics, Christian Medical</li> <li>College, Vellore, Tamilnadu, India. dr.afsanajahan@gmail.com. (2)Department of Clinical Pharmacology, Christian Medical College, Vellore, Tamilnadu, India.</li> <li>(3)Department of Paediatrics, Khoo Teck Puat-National University Children's Medical Institute, National University Health System, Singapore.</li> <li>(4)Paediatric Nephrology Unit, Department of Paediatrics, Christian Medical</li> <li>College, Vellore, Tamilnadu, India.</li> </ul> </li> <li>BACKGROUND: Tacrolimus has gained acceptance in the management of steroid-resistant nephrotic syndrome (SRNS) in children. Due to limited data, therapeutic range is extrapolated from pediatric renal transplant recipients.</li> <li>This study was designed to assess therapeutic efficacy of tacrolimus in children with SRNS and its correlation with inter-dose area under concentration curve (AUC0-12 h) and trough concentration (C0). METHODS: Pre dose, 0.5, 1.0, 1.5, 2.0, 2.5, 3, 4, 8, and 12 h after drug administration blood samples were collected in 25 children who were on tacrolimus for a minimum of 3 months and AUC0-12 h was calculated. RESULTS: There was an 80% (20/25) response rate with 64% (16/25) children achieving complete remission. Median C0 in remission was higher than in relapse group (2.95 ng/nl, versus 3.5.15 µg ×h/l; p = 0.025). Maximum concentration after drug administration (Cmax) among the groups was not significantly different. There was a significant correlation between C0 and AUC0-12 h (r=0.79); and Cmax and AUC0-12 h (r=0.</li></ul>	PMID: 26135137 WOS:000361759800011	INT
184.	Jain P, Deshpande P, Korula A, Nisham P, Abu Alex A, Fouzia N, et al. Adult Acute Lymphoblastic Leukemia: A Cost Effective Strategy and Limitations of Intensification of Therapy in India. Blood. 2015;126(23).	WOS:000368020105298.	INT
	Department of Leukemia, M D Anderson Cancer Center, Houston, TX 2Department of Haematology, Christian Medical College, Vellore, India		

	https://ash.confex.com/ash/2015/webprogram/Paper84543.html	-	
185.	<ul> <li>Jakkani RK(1), Sureka J(1), Panwar S(2).</li> <li>Subacute sclerosing panencephalitis resembling Rasmussen's encephalitis on magnetic resonance imaging.</li> <li>Singapore Med J. 2015 Sep;56(9):e147-9. doi: 10.11622/smedj.2013236.</li> <li>Author information: <ul> <li>(1)Department of Radiology, Christian Medical College and Hospital, Tamil Nadu, India. (2)Department of Radiology, Alluri Seetharama Raju Academy of Medical Sciences, Andhra Pradesh, India.</li> </ul> </li> <li>Subacute sclerosing panencephalitis (SSPE) is a rare, slowly progressing but invariably fatal disease that is related to a prior measles virus infection and most commonly affects paediatric patients. Magnetic resonance (MR) imaging is the modality of choice for determining such changes in white matter. SSPE typically demonstrates bilateral but asymmetric periventricular and subcortical white matter involvement. We herein report a rare case of unilateral white matter involvement in a 13-year-old boy with SSPE that closely simulated Rasmussen's encephalitis. To the best of our knowledge, this is the first report of an atypical presentation on MR imaging in which SSPE was a rare cause of unilateral brain parenchymal involvement in a patient with intractable seizures.</li> </ul>	PMID: 26451061 PMCID: PMC4582139 WOS:000364458000002	INT
186.	Jasper, A., Sudhakar, S. V. and Sridhar, G. V. The multiple associations of Klippel-Feil syndrome Acta Neurol Belg; 2015, 115 (2): 157-9 Address: Department of Radiology, Christian Medical College, Vellore, 632004, Tamil Nadu, India, <u>anithapjp@gmail.com</u> .	PMID: 24950730 WOS:000354723700013	INT
187.	<ul> <li>Jayanth ST(1), Pulimood A(2), Abraham D(3), Rajaram A(4), Paul MJ(3), Nair A(3).</li> <li>A randomized controlled experimental study comparing chitosan coated polypropylene mesh and Proceed<sup>™</sup> mesh for abdominal wall defect closure.</li> <li>Ann Med Surg (Lond). 2015 Oct 9;4(4):388-94. doi: 10.1016/j.amsu.2015.10.002.eCollection 2015.</li> <li>(1)Department of General Surgery, Christian Medical College, Vellore, India.</li> <li>(2)Department of Pathology, Christian Medical College, Vellore, India.</li> <li>(3)Department of Endocrine Surgery, Christian Medical College, Vellore, India.</li> <li>(4)Department of Biophysics, Central Leather Research Institute, Chennai, India.</li> <li>BACKGROUND: Abdominal wall defects and hernias are commonly repaired with synthetic or biological materials. Adhesions and recurrences are a common problem. A study was conducted to compare Chitosan coated polypropylene mesh and a polypropylene-polydioxanone composite with oxidized cellulose coating mesh (Proceed<sup>™</sup>) in repair of abdominal wall defect in a Rabbit hernia model. METHODS: A randomized controlled experimental study was done on twelve New Zealand white rabbits. A ventral abdominal defect was repaired with Chitosan coated polypropylene mesh and Proceed mesh <sup>™</sup> in the other. The rabbits were operated in two phases. They were followed up at four weeks and twelve weeks respectively after which the rabbits were sacrificed. They were evaluated by open exploration and histopathological examination. Their</li> </ul>	PMID: 26594357	INT

PMID - PUBMED ID; PMCID - PUBMEDCENTRAL ID; WOS - WEB OF SCIENCE ID

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	efficacy in reducing adhesion and ability of remodeling and tissue integration were studied. RESULTS: There was no statistical significance in the area of adhesion, the force required to remove the adhesions, tissue integration and remodeling between Chitosan and Proceed <sup>™</sup> group. Histological analysis revealed that the inflammatory response, fibrosis, material degradation and remodeling were similar in both the groups. There were no hernias, wound infection or dehiscence in any of the studied animals. CONCLUSION: Chitosan coated polypropylene mesh was found to have similar efficacy to Proceed <sup>™</sup> mesh. Chitosan coated polypropylene mesh, can act as an anti adhesive barrier when used in the repair of incisional hernias and abdominal wall defects.		
188.	Jayaprakash Russell Ravan*1, Deepa Brajanza2 , Naveen Thomas3 Prevalence of hyperprolactinemia and osteoporosis in patients on long term Risperidone: A cross sectional study Indian Journal of Psychiatry. 2015;57(5):S65. Author Address 1 Kalinga Institute of Medical Sciences, India, jpr_219@yahoo.co.in, 2 CMC Vellore, India, deepa@cmcvellore.ac.in, 3 Melbourne Health, Australia, naveenlinda2002@yahoo.co.in Keyword: Risperidone, Osteoporosis and bone mineral density (BMD), hyperprolactinaemia, Erectile Dysfunction(ED), Menstrual Dysfunction(MD) Background: Risperidone is a widely used antipsychotic, known to cause secondary hyperprolactinaemia. Related problems include bone mineral density (BMD) and vitamin D deficiency. However, there is insufficient information about the extent, severity and association between these side effects, particularly in the Asian population. Objectives: To estimate the prevalence of osteoporosis, and vitamin D deficiency in patients taking Risperidone for more than 1 year. Also, to investigate whether erectile dysfunction (ED) or menstrual dysfunction (MD) can be used as a proxy indicator of BMD loss in such patients, replacing dual energy X-ray absorptiometry (DEXA) scan. Method: Sixty-five patients (mean age 29.6) receiving Risperidone as the only prolactin raising medication for minimum period of one year were selected taking into consideration the socio demographic and clinical variables. History of ED/MD, DEXA measurement of their lumbar and hip bone and endocrine variables were recorded. Results: I. The prevalence of hyperprolactemia in female was found to be 84.4% and in males 78.8%, females being 1.4 times more at risk than males. Abnormal BMD was found in 40% of the subjects. Furthermore, 30% had Vitamin D deficiency and 60.8% had vitamin D insufficiency. II. A statistically significant association was observed between ED/MD and BMD (OR 3.71; CI 1.23-11.24) but this varied according to the gender. Conclusion: These results suggest that patients on long term Risperidon are at		NAT
189.	Jeba J(1), Isiah R(2), Subhashini J(3), Backianathan S(3), Thangakunam B(4), Christopher DJ(4). Radiation Pneumonitis After Conventional Radiotherapy For Breast Cancer: A Prospective Study. Clin Diagn Res. 2015 Jul;9(7):XC01-XC05. doi: 10.7860/JCDR/2015/13969.6211. Epub 2015 Jul 1. Author information:	PMID: 26393189	NAT
	<ul> <li>(1)Associate Professor, Palliative Care Unit, Department of Radiotherapy,</li> <li>Christian Medical College and Hospital, Vellore, India. (2)Physician, Department of Radiotherapy, Christian</li> <li>Medical College and Hospital, Vellore,</li> <li>India. (3)Professor, Department of Radiotherapy, Christian Medical College and Hospital, Vellore, India.</li> </ul>		

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	(4)Professor, Department of Pulmonary Medicine, Christian Medical College and Hospital, Vellore, India.		
	BACKGROUND: Loco-regional radiotherapy is an important treatment modality in breast cancer and radiation pneumonitis (RP) is one of the early toxicities. AIM: To study the occurrence, correlation of RP with patient and radiotherapy related factors and the effects on pulmonary function following conventional radiotherapy in breast cancer. SETTINGS AND DESIGN: Prospective study, from a tertiary hospital in a developing country. MATERIALS AND METHODS: Prospective analysis of clinical symptoms, pulmonary function and radiologic changes was done prior to and 12 weeks after adjuvant radiotherapy (n=46). Statistical analysis was done using SPSS version 10 software. RESULTS: Radiological and clinical RP was seen in 45.65% (n=21) and 19.56% (n=9) respectively. RP was significantly higher with age >50 years (OR 4.4), chest wall irradiation with electrons, (electrons 83.3% vs cobalt60 32.4%, p=0.02) and supraclavicular field treatment with 6 MV photons (p= 0.011). There was significant relationship between Inferior Lung Distance (ILD) and RP (p=0.013). The fall in Total Lung Capacity (TLC) was significantly more in those with RP (p=0.02). CONCLUSION: Clinical RP occurs in almost one-fifth of breast cancer patients treated with conventional radiotherapy. Chest wall irradiation with electrons, supraclavicular field irradiation with 6 MV photons, higher ILD and age >50 years was associated with increased RP. The pulmonary function parameter most affected was TLC. The factors associated with increased RP should be considered when adjuvant radiotherapy is planned to minimize its likelihood and intervene appropriately.		
190.	Jebasingh FK(1), Dasgupta R(1), Thomas N(1). Kallmann's syndrome: a visual vignette.	26318172	INT
	BMJ Case Rep. 2015 Aug 28;2015. pii: bcr2015211646. doi: 10.1136/bcr-2015-211646.		
	Author information: (1)Department of Endocrinology, Diabetes and Metabolism, Christian Medical College, Vellore, Tamil Nadu, India.		
191.	Jebasingh FK(1), Ramakant P(2), Shanthly N(3), Paul TV(1). A thyroid nodule mimic	PMID: 26531742	INT
	BMJ Case Rep. 2015 Nov 3;2015. pii: bcr2015212962. doi: 10.1136/bcr-2015-212962.		
	(1)Department of Endocrinology, Diabetes and Metabolism, Christian Medical College, Vellore, Tamil Nadu, India. (2)Department of Endocrine Surgery, SGPGIMS, Lucknow, Uttar Pradesh, India. (3)Department of Nuclear Medicine, Christian Medical College, Vellore, India.		
192.	Jebasingh KF(1), Naik D(2), Chandramohan A(3), Thampi R(1), Thomas N(4). Innominate Artery Aneurysm: Simulating a Thyroid Nodule	PMID: 26557559	NAT
	J Clin Diagn Res. 2015 Oct;9(10):OJ01-2. doi: 10.7860/JCDR/2015/14862.6646. Epub 2015 Oct 1.		
	(1)Senior Registrar, Department of Endocrinology, Diabetes & Metabolism,		

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	Christian Medical College, Vellore, India. (2)Associate Professor, Department of Endocrinology, Diabetes & Metabolism, Christian Medical College, Vellore, India. (3)Associate Professor, Department of Radiology, Christian Medical College, Vellore, India. (4)Professor, Department of Endocrinology, Diabetes & Metabolism, Christian Medical College, Vellore, India.		
193.	Jehangir S(1), Ninan PJ(1), Jacob TJ(1), Eapen A(2), Mathai J(1), Thomas RJ(1), Karl S(1). Enteric duplication in children: Experience from a tertiary center in South India. J Indian Assoc Pediatr Surg. 2015 Oct-Dec;20(4):174-8. doi:	PMID: 26628808	NAT
	10.4103/0971-9261.164246. (1)Department of Pediatric Surgery, Christian Medical College, Vellore, Tamil Nadu, India. (2)Department of Radiodiagnosis, Christian Medical College, Vellore, Tamil Nadu, India.		
	BACKGROUND: Enteric duplications (EDs) are rare aberrations of the embryonic gut. This study was undertaken to define the clinical characteristics and management challenges of this unusual entity in the Indian population. MATERIALS AND METHODS: Hospital records of 35 children with 38 ED operated between 2003 and 2014 were analyzed and followed up. RESULTS: The median age at presentation was 285 days (range 1-day to 16 years)		
	with male preponderance (71%). Small bowel duplications were the most common (44%), and thoracoabdominal duplications were seen in 8% children compared to 2% in the literature. The median duration of symptoms was 18 days (interquartile range [IQR] 3-210 days). Associated anomalies were seen in 49% children with vertebral and spinal anomalies being the most common. Ultrasonogram (US) was done in 83% children and had a sensitivity of 55%. In the presence of a gastrointestinal bleed, Technetium(99m) pertechnetate scintigraphy scan had a positive predictive value of 80%. Thirty-five lesions were completely removed. Mucosectomy was done in two children, and one total colonic duplication was left in situ after providing adequate internal drainage. There was no postoperative mortality. The follow-up was possible in 66% children. CONCLUSIONS: EDs are uncommon and have varied, nonspecific symptoms. Thoracoabdominal duplications are more common in the Indian population. The US is a good screening tool but requires a high index of suspicion where complete excision is not possible; the provision of adequate internal drainage is an acceptable alternative. The long-term prognosis of children with ED depends on the		
104	extent of physiological disturbance due to associated anomalies.	DMID: 26599610	
194.	Jena SS, Alexander M(1), Aaron S, Mathew V, Thomas MM, Patil AK, Sivadasan A, Muthusamy K, Mani S, Rebekah JG. Natural history of multiple sclerosis from the Indian perspective: Experience from a tertiary care hospital.	PMID: 26588619 WOS:000365695700013	NAT
	Neurol India. 2015 Nov-Dec;63(6):866-73.		
	(1)Department of Neurology, Christian Medical College, Vellore, Tamil Nadu, India.		
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	CONTEXT: Multiple sclerosis (MS) has a spectrum of heterogeneity, as seen in western and eastern hemispheres, in the clinical features, topography of involvement and differences in natural history. AIM: To study the clinical spectrum, imaging, and electrophysiological as well ascerebrospinal fluid (CSF) characteristics and correlate them with outcome. SETTINGS AND DESIGN: Retrospective analysis of MS patients during a period of 20 years. SUBJECTS AND METHODS: Cases were selected according to recent McDonald's criteria(2010), They were managed in the Department of Neurology, Christian MedicalCollege, Vellore. STATISTICAL ANALYSIS USED: Chi-square and Fisher's exact tests were used for categorical variables. Multiple binary logistic regressions were done to assess significance. Kaplan-Meier curves were drawn to estimate the time to irreversibledisability. RESULTS: A total of 157 patients with female preponderance (55%) were included. The inter quartile range duration of follow-up was 9.1 (8.2, 11) years for 114 patients, who were included for final outcome analysis. Relapsing remitting MS (RRMS) (54.1%) was the most common type of MS seen. RRMS had a significantly better outcome (odds ratio: 0.12, 95% confidence interval: 0.02-0.57, P = 0.008) compared to progressive form of MS (primary progressive, secondary progressive). The Expanded Disability Status Scale score of patients at presentation and at final follow-up was 4.4 $\pm$ 1.31 and 4.1 $\pm$ 2.31, respectively. During the first presentation, polysymptomatic manifestations like motor and sphincteric involvement, incomplete recovery from the first attack; and, during the disease course, bowel, bladder, cerebellar and pyramidal affliction, predicted a worse outcome. CONCLUSION: A high incidence of optico-spinal presentation, predominance of RRMS and a low yield on cerebrospinal fluid (CSF) studies are the major findings ofour study. A notable feature was the analysis of prognostic markers ofdisability.		
195.	Jerath, A., Beattie, S. W., Chandy, T., Karski, J., Djaiani, G., Rao, V., Yau, T. and Wasowicz, M. Volatile-based short-term sedation in cardiac surgical patients: a prospective randomized controlled trial Critical care medicine; 2015, 43 (5): 1062-1069 OBJECTIVE: To evaluate the differences in extubation times in a group of cardiac surgical patients who were anesthetized and sedated with either IV propofol or inhaled volatile anesthetic agents. DESIGN: This was a prospective randomized controlled trial performed between September 2009 and August 2011. SETTING: Cardiovascular ICU within a tertiary referral university-affiliated teaching hospital. PATIENTS: One hundred forty-one patients undergoing coronary artery bypass graft surgery with normal or mildly reduced left ventricular systolic function. INTERVENTION: Participants were randomly assigned to receive anesthesia and postoperative sedation using IV propofol (n = 74) or inhaled volatile (isoflurane or sevoflurane) anesthetic agent (n = 67). MEASUREMENTS AND MAIN RESULTS: Patients sedated using inhaled volatile group at 182 minutes (140-255 min) in comparison with propofol group at 291 minutes (210-420 min) (p < 0.001). The volatile group showed a higher prevalence of vasodilatation with hypotension and higher cardiac outputs necessitating greater use of vasoconstrictors. There was no difference in postoperative pain scores, opioid consumption, sedation score, ICU or hospital length of stay, or patient mortality. CONCLUSIONS: Inhaled volatile anesthesia and sedation facilitates faster extubation times in comparison with IV propofol for patient undergoing coronary artery bypass graft surgery. Address: 11Department Anesthesia and Pain Management, Christian Medical College, Vellore, India. 3Divison of Cardiac Surgery, Toronto General Hospital, Toronto, ON, Canada.	PMID: 25756412 WOS:000353061000033	INT

196.	Jeyaseelan V(1), Jeyaseelan L(1), Yadav B(1). INCIDENCE OF, AND RISK FACTORS FOR, MALNUTRITION AMONG CHILDREN AGED 5-7 YEARS IN SOUTH INDIA. J Biosoc Sci. 2015 Oct 6:1-17. [Epub ahead of print] Author information: (1)Department of Biostatistics,Christian Medical College,Vellore,India. Protein-energy malnutrition is a major health problem contributing to the burden of disease in developing countries. The aim of this study was to assess the incidence of, and risk factors for, malnutrition among school-going children in south India. A total of 2496 children aged 5-7 years from rural and urban areas of south India were recruited in 1982 and followed up for malnutrition over a period of 9 years. Their body heights and weights were measured every six months and socio-demographic factors such as mother's education and father's education and relevant household characteristics and hygine practices collected. Body mass index and height-for-age z-scores were used to determine children's levels of underweight and stunting, respectively, classified as normal, mild/moderate or severe. Risk factor analysis was done for pre- pubertal ages only using Generalized Estimating Equations with cumulative odds assumption. There was a significant difference between male and female children in the incidence of severe underweight and stunting (6.4% and 4.2% respectively). Children in household swith no separate kitchen had 1.3 (1.0-1.6) times higher odds of being severely underweight (p=0.044) compared with those who did. Children without a toilet facility had significantly higher odds of severe stunting than those with literate parents. In conclusion, the prevalence of malnutrition among these south Indian children has not changed over the years, and the incidence of severe malnutrition was highest in children when they were at pubertal age. The risk factors for stunting were mostly poverty-related, and those for underweight were mostly hygiene-related. Adolescent children in south India should be screeneed periodically at school for ma	PMID: 26440753	INT
197.	intervention if necessary. Jeyaseelan V(1), Kumar S(2), Jeyaseelan L(1), Shankar V(3), Yadav BK(1), Bangdiwala SI(4). DOWRY DEMAND AND HARASSMENT: PREVALENCE AND RISK FACTORS IN INDIA. J Biosoc Sci. 2015 Nov;47(6):727-45. doi: 10.1017/S0021932014000571. Author information: (1)*Department of Biostatistics,Christian Medical College,Vellore,India. (2)*Samarth NGO, Chennai,India. (3)*Department of Epidemiology and Population Health,Albert Einstein College of Medicine,USA. (4)§Department of Biostatistics,University of North Carolina at Chapel Hill,USA. The practice of dowry is widespread in India and refers to the payment of cash/gifts by the bride's family to the bridegroom's family before marriage. Though prohibited by law, dowry is widely practised, and often contributes to severe injuries and even death of young brides. This study examined the prevalence and risk factors for dowry demand and dowry harassment and its	PMID: 26449344	INT

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	psychosocial correlates across different social strata in India, and also by husband and mother-in-law characteristics. In a cross-sectional survey of 9938 women in rural, urban and urban non-slum sites across India conducted in 1998-99, dowry demand was found to be significantly higher (p<0.001) in the urban non-slum and rural areas (26% and 23% respectively) than in urban slum areas (18%). Overall, 17% of groom's families were not satisfied with the dowry, this being higher in rural areas (21%) than in urban slum and non-slum areas (about 14% in both). The overall prevalence of dowry harassment among this group of women was 13.3%. Mothers-in-law who had themselves experienced dowry demand were 14 (95% CI 5.0-40.4) and 5 (95% CI 1.3-18.9) times more likely to demand and harass daughters-in-law over dowry, respectively. Another significant risk factor for dowry-related harassment was mother-in law's status in the family. Interventions related to modifiable risk factors, such as increased social support at the community level, should help reduce dowry harassment.		
198.	John D(1), Philip SS, Mittal R, John SS, Paul P. Spectrum of ocular firework injuries in children: A 5-year retrospective study during a festive season in Southern India.	PMID: 26669336 WOS:000367300300007	NAT
	Indian J Ophthalmol. 2015 Nov;63(11):843-6. doi: 10.4103/0301-4738.171966.		
	Department of Ophthalmology, Christian Medical College, Vellore, Tamil Nadu, India.		
	PURPOSE: Ocular trauma is a major cause of acquired monocular blindness injchildren. Firework injuries account for 20% of ocular trauma. The purpose of our study was to document the profile of ocular firework injuries in children during the festive season of Diwali and to determine the prevalence of unilateral blindness in them. MATERIALS AND METHODS: A retrospective chart analysis of ocular firework injury in children during the festival of Diwali from 2009 to 2013, conducted in a tertiary care eye center in Tamil Nadu, Southern India. Children below 18 years of age with ocular firework injuries who presented to the emergency department for 3 consecutive days - the day of Diwali, 1 day before, and 1 day after Diwali - were included in this study. RESULTS: Eighty-four children presented with firework-related ocular injuries during the study period. Male to female ratio was 4:1 with mean age 9.48 ± 4 years. Forty-four percentage required hospitalization. The prevalence of unilateral blindness in children due to fireworks was found to be 8% (95% confidence interval - 2-13%). CONCLUSION: Vision 2020 gives high priority to avoidable blindness, especially in children. In our study, for every 12 children who presented with firecracker injury, one resulted in unilateral blindness. This is an avoidable cause of blindness. Awareness needs to be created, and changes in policy regarding sales and handling of firecrackers including mandatory use of protective eyewear should be considered.		
199.	John, N. T. and Phukan, C.	PMID: 25732395	INT
	Triplication of ureter with ureterocoele and renal calculi ANZ J Surg; 2015, 85 (3): 199 Address: Department of Urology, Christian Medical College, Vellore, Tamil Nadu, India.	WOS:000350644500032	

	Chie Selentine Poblication For the TEAR 2013 (JANOART TO Dec		
200.	John, R. R., Boddu, D., Chaudhary, N., Yadav, V. K. and Mathew, L. G. Steroid-responsive anemia in patients of Ghosal hematodiaphyseal dysplasia: simple to diagnose and easy to treat J Pediatr Hematol Oncol; 2015, 37 (4): 285-9 Ghosal hematodiaphyseal dysplasia (GHDD) is a recently recognized cause of steroid-responsive anemia. We would like to report 3 cases of GHDD who presented in early childhood with moderate to severe anemia, splenomegaly, and a hypocellular marrow with increased reticulin. They were easily diagnosed with long- bone x-rays showing diaphyseal and metaphyseal widening and loss of diaphyseal constriction. All cases dramatically responded to oral steroid and no longer needed blood transfusion. They required steroid at low doses for long term (up to 5 y). GHDD is easy to diagnose with long-bone radiography and consistently responds to steroid. It should therefore be considered as a differential diagnosis of unusual anemia in early childhood, especially in children from the Middle East or the Indian subcontinent. Address: Departments of *Child Health daggerRadiology, Christian Medical College, Vellore, Tamil Nadu, India.	PMID: 25374284 WOS:000353301600024	INT
201.	John, T. J. and Eapen, C. E. Atypical features of severe dengue: probable pathogenesis Indian Pediatr; 2015, 52 (4): 350-1 Address: Departments of Clinical Virology and *Hepatology, CMC, Vellore, Tamil Nadu, India. eapen@cmcvellore.ac.in.	PMID: 25929648	NAT
202.	Jose A(1), Selvakumar R, Peter JV, Karthik G, Fleming DH, Fleming JJ. Estimation of Monocrotophos renal elimination half-life in humans. Clin Toxicol (Phila). 2015;53(7):629-32. doi: 10.3109/15563650.2015.1054500. Epub2015 Jun 12. Author information: (1)Department of Clinical Biochemistry, Christian Medical College , Vellore , India. INTRODUCTION: Monocrotophos, implicated in about 1/4th of organophosphate poisonings in our centre, is associated with the highest mortality (24%). Yet data on its pharmacokinetics in humans is limited. We estimated the renal elimination half-life of monocrotophos. PATIENTS AND METHODS: Consecutive patients presenting with monocrotophos overdose over a 2-month period who had normal renal function were recruited. Monocrotophos in plasma and urine were quantitated by high-performance liquid chromatography. Urine was obtained from catheterised samples at 0-2, 2-4, 4-6, 6-8, 8-12 and 12-24 h. Plasma specimens were collected at the time of admission, and at the midpoint of the urine sample collections at 1, 3, 5, 7, 10, 15 and 21 h. Renal elimination half-life was calculated from the cumulative amount excreted in the urine. RESULTS: The cohort of 5 male patients, aged 35.8 ± 2.94 years, presented with typical organophosphate (cholinergic) toxidrome following intentional monocrotophos overdose. All patients required mechanical ventilation; one patient died. Plasma data was available from 5 patients and urine data from 3 patients. The median renal elimination half-life was 3.3 (range: 1.9-5.0 h). Plasma monocrotophos values, as natural log, fell in a linear fashion up to around 10 h after admission. After the 10-hour period, there was a secondary rise in values in all the 3 patients in whom sampling was continued after 10 h. CONCLUSION: A renal elimination half-life of 3.3 h for monocrotophos is consistent with a water-soluble compound which is rapidly cleared from the plasma. The secondary rise in plasma monocrotophos values suggests possible re- distribution. Determining the elimination	PMID: 26065438 WOS:000359883400007	INT

203.	Jose JV(1), Kumar P(2), Joseph E(2), George P(2). Giant coronary sinus in rheumatic heart disease: a rare case presentation.	PMID: 26206461 WOS:000366586100018	INT
	Eur Heart J Cardiovasc Imaging. 2015 Nov;16(11):1255. doi: 10.1093/ehjci/jev183. Epub 2015 Jul 22.		
	Author information: (1)Christian Medical College and Hospital Vellore, Arcot Road, Vellore, Tamil Nadu, India jose@cmcvellore.ac.in josecardio@gmail.com. (2)Christian Medical College and Hospital Vellore, Arcot Road, Vellore, Tamil Nadu, India.		
204.	Jose R(1). Beyond the Mask.	26284962	INT
	Anesthesiology. 2015 Nov;123(5):1210-1. doi: 10.1097/ALN.000000000000823.		
	Author information: (1)From the Christian Medical College Hospital Campus, Vellore, Tamil Nadu, India. riyamithun@gmail.com.		
205.	Joseph AA(1), Pulimood S(2), Manipadam MT(3), Viswabandya A(4), Sigamani E(3). Extramedullary plasmacytoma: an unusual neoplasm in a HIV-positive patient.	PMID: 26400264	INT
	Int J STD AIDS. 2015 Sep 22. pii: 0956462415605244. [Epub ahead of print]		
	Author information: (1)Department of Dermatology, Christian Medical College Hospital, Vellore, Tamil Nadu, India anjusushil2005@gmail.com. (2)Department of Dermatology, Christian Medical College Hospital, Vellore, Tamil Nadu, India. (3)Department of Pathology, Christian Medical College Hospital, Vellore, Tamil Nadu, India. (4)Department of Haematology, Christian Medical College Hospital, Vellore, Tamil Nadu,		
	There is a gamut of plasma cell abnormalities in PLHIV. Extramedullary plasmacytomas are not common in HIV infection unlike plasmablastic lymphomas. An HIV-positive 44-year-old man on antiretroviral therapy presented with a rapidly progressing swelling on the face. Imaging revealed underlying bone destruction. Histologically, there was a tumour composed of small to medium-sized plasmacytoid cells admixed with many mature plasma cells and plasmablasts. These were positive for CD138 and MUM 1. Extramedullary multiple myeloma was ruled out as, CD56 and cyclin D-1 were negative. EBV was negative. As the tumour cells were		
	mostly mature, plasmablastic lymphoma was also excluded. The presence of a monoclonal protein (1g%),		
	IgG kappa type, was detected. Neoplasia of plasma cells acquires special clinical characteristics in PLHIV. These patients are younger, with a greater tendency to develop solitary extramedullary plasmacytomas with atypical clinical evolution and greater aggressiveness of the neoplastic process. All these features along with a unique with a high proliferation index (MIB1 60%) was found in our patient. We report this case for its rarity, histopathological dilemma and its atypical features in HIV infection. © The Author(s) 2015.		
206.	Joseph G(1), Hooda A(2), Thomson VS(2). Contralateral approach to iliac artery recanalization with kissing nitinol stents	PMID: 26702686 [PubMed - in process]	NAT
	Contralateral approach to mae aftery recananzation with Kissing Intinoi Stents		I

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	present in the aortic bifurcation.		
	Indian Heart J. 2015 Nov-Dec;67(6):561-4. doi: 10.1016/j.ihj.2015.06.039. Epub 2015 Oct 21.		
	Department of Cardiology, Christian Medical College, Vellore, India. Electronic address: joseph59@gmail.com. (2)Department of Cardiology, Christian Medical College, Vellore, India.		
	A 69-year-old man, who had earlier undergone reconstruction of the aortic bifurcation with kissing nitinol stents, presented with occlusion of the left external iliac artery. The occlusion was successfully and safely recanalized using contralateral femoral approach with passage of interventional hardware through the struts of the stents in the aortic bifurcation. Presence of contemporary flexible nitinol stents with open-cell design in the aortic bifurcation is not a contraindication to the use of the contralateral femoral approach.		
207.	Joseph G(1), Premkumar P(2), Thomson V(3), Varghese M(3), Selvaraj D(2), Sahajanandan R(4). Externalized Guidewires to Facilitate Fenestrated Endograft Deployment in the Aortic Arch.	PMID: 26511895	INT
	J Endovasc Ther. 2015 Oct 28. pii: 1526602815614557. [Epub ahead of print]		
	Author information: (1)Department of Cardiology, Christian Medical College, Vellore, India joseph59@gmail.com. (2)Department of Vascular Surgery, Christian Medical College, Vellore, India. (3)Department of Cardiology, Christian Medical College, Vellore, India. (4)Department of Anesthesiology, Christian Medical College, Vellore, India. PURPOSE: To describe a precannulated fenestrated endograft system utilizing externalized guidewires to facilitate aortic arch endovascular repair and to report its use in 2 patients with challenging anatomy. TECHNIQUE: For distal arch repair, a fenestration for the left subclavian artery (LSA) is made onsite in a standard thoracic endograft tailored to the patient anatomy; it is precannulated with a nitinol guidewire (NGW), which is passed from the femoral artery and externalized from the left brachial artery prior to endograft delivery system introduction over a parallel stiff guidewire. Steps are then taken to remove guidewire intertwining, prevent NGw wrapping around the delivery system, and orient the LSA fenestration superiorly when the delivery system moves into the arch. Gentle traction on the ends of the NGw during endograft deployment facilitates proper fenestration alignment. A covered stent is deployed in the LSA fenestration. The technique is illustrated in a patient with congenital coarctation of the aorta and descending aortic aneurysm. For total arch repair, endograft fenestrations are made for all 3 arch branches; the left common carotid artery (LCCA) and LSA fenestrations is eparately cannulated with NGws, which travel together from the femoral artery, pass through a LSA snare loop, and are exteriorized from the LCCA. After endograft deployment, the innominate artery fenestration is separately cannulated using right brachial access. Placement of a parallel externalized hydrophilic guidewire passing through the LCCA fenestration (but not the LSA snare loop) and removal of the LCCA fenestration NGw allows exteriorization of the LSA fenestrations		

	fenertiested endegraft system described is fenerial and has the netential to make participants and and approximation		
	fenestrated endograft system described is feasible and has the potential to make aortic arch endovascular repair simpler, more reliable, and safer. © The Author(s) 2015.		
200		DMID: 25004406	INT
208.	Joseph, G.	PMID: 25904486	
	Commentary: transcardiac access to the ascending aorta and beyond	WOS:000354868700022	
	J Endovasc Ther; 2015, 22 (3): 385-7		
	Address: Department of Cardiology, Christian Medical College, Vellore, India joseph59@gmail.com.		
209.	Joseph, G. and Agarwal, S.	PMID: 26071295	NAT
	Successful endovascular treatment of severe chronic mesenteric ischemia by concurrent triple-vessel	4475817: 4475817	
	mesenteric artery revascularization		
	Indian Heart J; 2015, 67 (2): 144-7		
	A 52-year-old man presenting with severely symptomatic chronic mesenteric ischemia had proximal		
	occlusion of the celiac and superior mesenteric arteries and critical stenosis of the inferior mesenteric artery		
	ostium. Concurrent percutaneous revascularization with stenting of all three mesenteric arteries was		
	successfully achieved using techniques tailored to each lesion. Complete clinical recovery was observed at		
	the six-month post-procedure follow-up.		
	Address: Department of Cardiology, Christian Medical College, Vellore, India. Electronic address:		
	joseph59@gmail.com.		
	Department of Vascular Surgery, Christian Medical College, Vellore, India.		
210.	Joseph, L., Paul, H., Premkumar, J., Paul, R. and Michael, J. S.	PMID: 25560016	NAT
	Biomedical waste management: study on the awareness and practice among healthcare workers in a tertiary	WOS:000352086300023	
	teaching hospital		
	Indian Journal of Medical Microbiology. 2015 Jan-Mar; 33(1): 129-31		
	Bio-medical waste has a higher potential of infection and injury to the healthcare worker, patient and the		
	surrounding community. Awareness programmes on their proper handling and management to healthcare		
	workers can prevent the spread of infectious diseases and epidemics. This study was conducted in a tertiary		
	care hospital to assess the impact of training, audits and education/implementations from 2009 to 2012 on		
	awareness and practice of biomedical waste segregation. Our study reveals focused training, strict		
	supervision, daily surveillance, audits inspections, involvement of hospital administrators and regular		
	appraisals are essential to optimise the segregation of biomedical waste.		
	Address: Department of Clinical Microbiology, Christian Medical College and Hospital, Vellore, Tamil Nadu,		
	India.		
211.	Kabeerdoss J(1), Kurien BT(2), Ganapati A(1), Danda D(3)	PMID: 26644090	INT
	Proteomics in rheumatology.	WOS:000369524700001	
	The connect in mean delogy.	100000000000000000000000000000000000000	
	Int J Rheum Dis. 2015 Nov;18(8):815-7. doi: 10.1111/1756-185X.12821.		
	(1)Department of Clinical Immunology and Rheumatology, Christian Medical College Hospital, Vellore, India.		
	(2)University of Oklahoma Health Sciences Center, Oklahoma City, OK, USA. (3)Department of Clinical		
	Immunology and Rheumatology, Christian Medical College Hospital, Vellore, India.		
	debashisdandacmc@hotmail.com.		
212.	Kabeerdoss J(1), Sandhya P(1), Danda D(2).	PMID: 26719306 [PubMed	INT
Z   Z.	Gut inflammation and microbiome in spondyloarthritis.	- as supplied by publisher]	
	Rheumatol Int. 2015 Dec 30. [Epub ahead of print]		

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	(1)Department of Clinical Immunology and Rheumatology, Christian Medical College, Vellore, Tamil Nadu, 632004, India. (2)Department of Clinical Immunology and Rheumatology, Christian Medical College, Vellore, Tamil Nadu, 632004, India. <u>debashisdandacmc@hotmail.com</u> .		
	Spondyloarthritis (SpA) is chronic inflammatory disease involving joints and the spine. Bowel inflammation is common in SpA, which may be classified as acute orchronic. Chronic gut inflammation is most common in SpA patients with axial involvement as compared to those presenting with peripheral involvement alone. The pathogenesis of gut inflammation in SpA could be explained by two factors-over-activation of immunological cells and altered gut microbiome. This is exemplified by SpA animal models, namely HLA-B27-expressing transgenic animalsand SKG mice models. Immunological mechanisms include homing of activated T cellsfrom gut into synovium, excess pro-inflammatory cytokines secretion by immunecells such as IL-23 and genetic variations in immunological genes. The evidencefor role of gut microbiome in SpA is gradually emerging. Recently, metagenomics study of gut microbiome by sequencing of microbial nucleic acids has enabledidentification of new microbial taxa and their functions in gut of patients with SpA. In SpA, the gut microbiome could emerge as diagnostic and prognostic marker of disease. Modulation of gut microbiome is slated to have therapeutic potential as well.		
213.	Kabeerdoss J, Jayakanthan P, Pugazhendhi S, Ramakrishna BS(1).	PMID: 26261163	NAT
	Alterations of mucosal microbiota in the colon of patients with inflammatory bowel disease revealed by real time polymerase chain reaction amplification of 16S ribosomal ribonucleic	PMC4557246 WOS:000360652400005	
	acid.	W03.000500052400005	
	Indian J Med Res. 2015 Jul;142(1):23-32. doi: 10.4103/0971-5916.162091.		
	Author information: (1)Wellcome Trust Research Laboratory, Christian Medical College, Vellore, India. Comment in Indian J Med Res. 2015 Jul;142(1):4-6.		
	BACKGROUND & OBJECTIVES: Alterations in microbial communities closely associated with the intestinal mucosa are likely to be important in the pathogenesis of inflammatory bowel disease (IBD). We examined the abundance of specific microbial populations in colonic mucosa of patients with ulcerative colitis (UC), Crohn's disease (CD) and controls using reverse transcription quantitative polymerase chain reaction (RT-qPCR) amplification of 16S ribosomal ribonucleic acid (16S rRNA). METHODS: RNA was extracted from colonic mucosal biopsies of patients with UC (32), CD (28) and patients undergoing screening colonoscopy (controls), and subjected to RT-qPCR using primers targeted at 16S rRNA sequences specific to selected microbial populations. RESULTS: Bacteroides-Prevotella-Porphyromonas group and Enterobacteriaceae were the most abundant mucosal microbiota. Bacteroides and Lactobacillus abundance was greater in UC patients compared with controls or CD. Escherichia coli abundance was increased in UC compared with controls. Clostridium coccoides group and C. leptum group abundances were reduced in CD compared with controls. Microbial population did not differ between diseased and adjacent normal mucosa, or between untreated patients and those already on medical treatment. The Firmicutes to Bacteroidetes ratio was significantly decreased in both UC and CD compared with controls, indicative of a dysbiosis in both conditions. INTERPRETATION & CONCLUSIONS: Dysbiosis appears to be a primary feature in both CD and UC. Microbiome-directed interventions are likely to be appropriate in therapy of IBD.		
214.	Kalampokas T(1), Kamath M(2), Boutas I(1), Kalampokas E(3).	PMID: 26572056	INT
	Ulipristal acetate for uterine fibroids: a systematic review and meta-analysis.		

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	<ul> <li>Gynecol Endocrinol. 2015 Nov 16:1-6.</li> <li>(1)a Second Department of Obstetrics and Gynecology, University of Athens, "Aretaieion" Hospital, Athens, Greece. (2)b Reproductive Medicine Unit, Christian Medical College, Vellore, Tamil Nadu, India, and. (3)c Gynaecological Oncology Department, University of Aberdeen, Aberdeen, UK.</li> <li>Ulipristal acetate (UA), a selective progesterone modulator, has been approved for short-term therapy for symptomatic fibroids. We decided to undertake a systematic review of the best available evidence and draw</li> </ul>		
	a more definitive conclusion regarding the efficacy of UA for the management of uterine fibroids. The outcomes included symptomatic relief, quality of life-related parameters, reduction in fibroid size, side effects and recurrence rate. We included four randomised controlled trials which consisted of three trials which compared UA with placebo, and one trial compared it with gonadotropin-releasing hormone analogues for symptomatic relief. The three trials comparing UA with placebo reported significant improvement in symptoms related to excessive uterine bleeding as evidenced by the attainment of amenorrhea or reduction in pictorial blood assessment chart. However, due to the heterogeneity of the available data, a meta-analysis was possible only for one the outcomes - attainment of amenorrhea which indicated improvement in symptoms [57.88 (19.81-169.16); p<0.00001]. The improved quality of life parameters and reduction in		
	fibroid size was noted in the UA group. With regards to adverse events, even though the three included studies reported increased non-physiological endometrial-related changes following UA, these changes reverted back to normal within 6 months. Short-termuse of UA seems to be an effective and safe method of treating uterine fibroids.		
215.	<ul> <li>Kalipatnapu, S., Prithishkumar, I. J. and Rabi, S.</li> <li>Use of plastinated specimens in rural medical and nursing education: a novel solution</li> <li>Rural Remote Health; 2015, 15 (2): 3409</li> <li>Address: Christian Medical College, Vellore, Tamilnadu, India. <u>ksasank@gmail.com</u>. Christian Medical College,</li> </ul>	PMID: 26018241 WOS:000365313200021	INT
	Vellore, Tamilnadu, India. <u>drivanjames@gmail.com</u> . Christian Medical College, Vellore, Tamilnadu, India. <u>suganthyrabi@cmcvellore.ac.in</u> .		
216.	Kamath, M. S., Mascarenhas, M., B, K., Vasani, N. N., Joshi, A., K, M. and George, K. Uterine flushing with supernatant embryo culture medium in vitrified warmed blastocyst transfer cycles: a randomized controlled trial J Assist Reprod Genet; 2015, 32 (2): 225-31 PURPOSE: Does transfer of supernatant embryo culture fluid (stimulation of endometrial embryo transfer - SEET) prior to vitrified warmed blastocyst transfer result in better clinical pregnancy and live birth rates than direct vitrified warmed blastocyst transfer? METHODS: This randomized controlled trial compared SEET group and direct transfer group (control) in 60 women undergoing vitrified warmed blastocyst transfers. The duration of the study was 3 years. The patients were undergoing vitrified warmed blastocyst transfer at university level infertility centre. Sixty women were randomized to SEET (n = 30) or control (n = 30). RESULTS: Data was available for analysis from all the 30 women in the SEET group and 30 women in the control group. There were no drop outs in the trial. The implantation rate was significantly lower in the SEET group compared to the control group (27 vs. 44 %, P = 0.018). The clinical pregnancy rates were similar in	PMID: 25428435 PMCID:PMC4354188 WOS:000350359400009	INT

PMID - PUBMED ID; PMCID - PUBMEDCENTRAL ID; WOS - WEB OF SCIENCE ID

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	both the groups (47 vs. 53 %) but the live birth rate was also significantly lower in SEET group (23 vs. 50 %, P = 0.03). LIMITATIONS: The sample size based on clinical pregnancy rates was small and hence not adequately powered to detect differences in live birth rates. Lack of blinding leading to possible bias cannot be ruled out. CONCLUSION: There was no evidence of an improvement in clinical pregnancy rate following SEET in vitrified warmed blastocyst transfer compared to direct transfer. Address: Reproductive Medicine Unit, Christian Medical College Hospital, Vellore, Tamil Nadu, 632004, India.		
217.	<ul> <li>Kang G(1), Tate JE(2), Parashar UD(2).</li> <li>Evaluation of rotavirus disease burden and vaccine effectiveness in India.</li> <li>Vaccine. 2015 Dec 16;33(51):7143. doi: 10.1016/j.vaccine.2015.08.092.</li> <li>(1)Christian Medical College, Vellore, Tamil Nadu, India. (2)Centers for Disease Control and Prevention Atlanta, GA, USA.</li> </ul>	PMID: 26675194 WOS:000366779600003.	INT
218.	<ul> <li>Kannangai R(1), David S(2), Sundaresan VC(2), Sachithanandham J(2), Mani M(2), Abraham OC(3), Pulimood SA(4), Rupali P(3), Sridharan G(5).</li> <li>Frequency of transmitted drug resistance mutations among treatment-naïve</li> <li>HIV-1-infected individuals at a tertiary care centre in South India.</li> <li>Mol Diagn Ther. 2015 Oct;19(5):273-5. doi: 10.1007/s40291-015-0160-5.</li> <li>Author information:</li> <li>(1)Department of Clinical Virology, Christian Medical College, Vellore, 632004,</li> <li>Tamil Nadu, India. kannangair@cmcvellore.ac.in. (2)Department of Clinical</li> <li>Virology, Christian Medical College, Vellore, 632004, Tamil Nadu, India. (3)Department of Internal Medicine, Christian Medical College, Vellore, India.</li> <li>(4)Department of Dermatology, Christian Medical College, Vellore, India.</li> <li>(5)Sri Sakthi Amma Institute of Biomedical Research Institute, Vellore, India.</li> <li>INTRODUCTION: Morbidity and mortality among HIV-1-infected individuals has been dramatically reduced by the implementation of combinational antiretroviral therapy (ART). However, the efficiency of these therapies is compromised due toHIV-1 transmitted drug resistance mutations (TDRMs).</li> <li>METHODS: We collected a total of 127 samples from ART-naïve HIV-infected individuals and sequenced the pol gene and analysed for drug resistance mutations using the Calibrated Population Resistance (CRR) tool in the Stanford database. RESULTS: All the 127 clinical samples (100 %) were identified as HIV-1 subtype C. Based on the CPR tool, three strains (2.4 %) had TDRMs, and these were K101E, Y181C and G190A. Our findings correlated well with the WHO surveys conducted inAsia, including India, which consistently reported &lt;5 % TDRM among the specificpopulations assessed.</li> <li>CONCLUSION: In countries like India, regular monitoring of TDRMs will providebetter information for clinical practice improvement and policy making.</li> </ul>	PMID: 26296335 WOS:000365119800003	INT
219.	Karathedath S, Rajamani B, Varatharajan S, Abraham A, Mathews V, Velayudhan S, et al. Role of NF-E2 Related Factor 2 (NRF2) on Chemotherapy Resistance in Acute Myeloid Leukemia (AML) and the Effect of Pharmacological Inhibition of NRF2. Blood. 2015;126(23). Department of Haematology, CHRISTIAN MEDICAL COLLEGE, VELLORE, India	WOS:000368019004072	INT

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	2Christian Medical College, Department of Haematology, VELLORE, India 3Christian Medical College, Department of Haematology, Vellore, India 4Department of Haematology, Christian Medical College, Vellore, India 5Department of Hematology, Christian Medical College, Vellore, India		
220.	Karuppiah, S., George, G., Chacko, B. and Philip, M. A. Entrapped left atrial pressure monitoring catheter in a prosthetic mitral valve <u>Annals of Cardiac Anaesthesia</u> . 2015 Apr-Jun; 18(2): 276-7	PMID: 25849711	NAT
	Address: Department of Anaesthesia, Christian Medical College and Hospital, Vellore, Tamil Nadu, India.		
221.	Kattula D(1), Francis MR(1), Kulinkina A(2), Sarkar R(1), Mohan VR(3), BabjiS(1), Ward HD(1), Kang G(1), Balraj V(3), Naumova EN(1). Environmental predictors of diarrhoeal infection for rural and urban communities in south India in children and adults.	PMID: 25690841 WOS:000362955500014	INT
	Epidemiol Infect. 2015 Oct;143(14):3036-47. doi: 10.1017/S0950268814003562. Epub 2015 Feb 18.		
	Author information: (1)Division Gastrointestinal Sciences, Christian Medical College, Vellore, India. (2)Department of Civil and Environmental Engineering, Tufts University School of Engineering, Medford, MA, USA. (3)Department of Community Health, Christian Medical College, Vellore, India.		
	Diarrhoeal diseases are major causes of morbidity and mortality in developing countries. This longitudinal study aimed to identify controllable environmental drivers of intestinal infections amidst a highly contaminated drinking water supply in urban slums and villages of Vellore, Tamil Nadu in southern India. Three hundred households with children (<5 years) residing in two semi-urban slums and three villages were visited weekly for 12-18 months to monitor gastrointestinal morbidity. Households were surveyed at baseline to obtain information on environmental and behavioural factors relevant to diarrhoea. There were 258 diarrhoeal episodes during the follow-up period, resulting in an overall incidence rate of 0.12 episodes/person-year. Incidence and longitudinal prevalence rates of diarrhoea were twofold higher in the slums compared to rural communities (P < 0.0002). Regardless of study site, diarrhoeal incidence was highest in infants (<1 year) at 1.07 episodes/person-year, and decreased gradually with increasing age. Increasing diarrhoeal rates were associated with presence of children (<5 years), domesticated animals and low socioeconomic status. In rural communities, open-field defecation was associated with diarrhoea in young children. This study demonstrates the contribution of site-specific environmental and behavioural factors in influencing endemic rates of urban and rural diarrhoea in a region with highly contaminated drinking water.		
222.	Keshava SN(1), Gibikote S(1), Doria AS(2). Imaging Evaluation of Hemophilia: Musculoskeletal Approach.	PMID: 26479893 WOS:000364569900011	INT
	Semin Thromb Hemost. 2015 Nov;41(8):880-93. doi: 10.1055/s-0035-1564798. Epub 2015 Oct 19.		
	Author information: (1)Department of Radiology, Christian Medical College Hospital, Vellore, Tamil		

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	Nadu, India. (2)Department of Medical Imaging, The Hospital for Sick Children, Toronto, Canada.		
	Imaging assessment is an important tool to evaluate clinical joint outcomes of hemophilia. Arthropathic changes have traditionally been evaluated by plain radiography and more recently by ultrasound and magnetic resonance imaging (MRI). Early arthropathic changes can be identified by modern imaging techniques such as T2 mapping MRI of cartilage even before clinical symptoms become apparent. Cross-sectional imaging modalities such as CT, ultrasonography, and MRI are useful in assessing bleeding-related musculoskeletal complications such as pseudotumors that still exist in some parts of the world. This article provides an overview of imaging of hemophilic arthropathy, and discusses the role and scope of individual imaging modalities currently in use in clinical practice, as well as of promising techniques that require further investigation in the immediate future. Thieme Medical Publishers 333 Seventh Avenue, New York, NY 10001, USA.		
223.	Keshava SN(1), Gibikote S(1). The Stall Grid Contest.	PMC4531462, 26288532	NAT
	Indian J Radiol Imaging. 2015 Jul-Sep;25(3):325-6. doi: 10.4103/0971-3026.161472. Author information: (1)Department of Radiology, Christian Medical College, Vellore, Tamil Nadu, India E-mail:	20200332	
	aparna_shyam@yahoo.com.	DMID: 25726200	TNIT
224.	Keshava, S. N., Gibikote, S. V., Mohanta, A., Poonnoose, P., Rayner, T., Hilliard, P., Lakshmi, K. M., Moineddin, R., Ignas, D., Srivastava, A., Blanchette, V. and Doria, A. S. Ultrasound and magnetic resonance imaging of healthy paediatric ankles and knees: a baseline for comparison with haemophilic joints Haemophilia; 2015, 21 (3): e210-22 The study was undertaken to document cartilage and soft tissue changes/findings in ankles and knees of normal children of different age groups to be used for comparison in the assessment of children with haemophilia. Cartilage thickness and soft tissue changes were recorded at predetermined sites of ankles/knees on both US and MRI in healthy boys in three age groups: 7-9; 10-14; and 15-18 years. To assess the validity of the ultrasound and MRI measurements, an ex vivo study was done using agar phantoms with techniques and scanners similar to those applied in vivo. Twenty (48%) knees and 22 (52%) ankles of 42 boys, were evaluated. There was a reduction in the thickness of joint cartilage with age. A difference in cartilage measurements was noted in most sites between the age groups on both US and MRI (P < 0.05 each), but such difference was not noted for joint fluid in ankles or knees (P = 0.20, P = 0.68 or P = 0.75, P = 0.63 for US, MRI, respectively). Although cartilage measurements were smaller on US than on MRI for both ankles and knees (P < 0.05 each), this observation was not recorded for fluid in knees (P = 0.02). For diminutive measurements (2 mm) mean US measurements were smaller than corresponding phantom's measurements, P = 0.02. Age-related measurements were noted for cartilage thickness on US and MRI in ankles and knees. US measurements were smaller than corresponding MRI measurements at most joint sites, which were supported by results on small-diameter phantoms. Address: Department of Radiology, Christian, Medical College, Vellore, Tamil Nadu, India.	PMID: 25736388 WOS:000354025900008	INT
225.	Khalifa M(1), Noureen A(1), Ertelthalner K(2), Bandegi AR(3), Delport R(4), Firdaus WJ(3), Geethanjali FS(5), Luthra K(6), Makemaharn O(7), Pang RW(8), SalemAH(3), Sasaki J(9), Schiefenhoevel W(10), Lingenhel A(1), Kronenberg F(2), Utermann G(3), Schmidt K(11). Lack of association of rs3798220 with small apolipoprotein(a) isoforms and high lipoprotein(a) levels in East	PMID: 26302166 WOS:000361509000021.	INT

and Southeast Asians.

Atherosclerosis. 2015 Oct;242(2):521-8. doi: 10.1016/j.atherosclerosis.2015.07.015. Epub 2015 Jul 15.

Author information:

(1) Division of Genetic Epidemiology, Department of Medical Genetics, Molecular and Clinical Pharmacology, Medical University of Innsbruck, Innsbruck, Austria; Division of Human Genetics, Department of Medical Genetics, Molecular and Clinical Pharmacology, Medical University of Innsbruck, Innsbruck, Austria. (2) Division of Genetic Epidemiology, Department of Medical Genetics, Molecular and Clinical Pharmacology, Medical University of Innsbruck, Innsbruck, Austria. (3)Division of Human Genetics, Department of Medical Genetics. Molecular and Clinical Pharmacology, Medical University of Innsbruck, Innsbruck, Austria. (4) Division of Human Genetics, Department of Medical Genetics, Molecular and Clinical Pharmacology, Medical University of Innsbruck, Innsbruck, Austria; Department of Chemical Pathology, Faculty of Health Sciences, University of Pretoria, Pretoria, South Africa. (5)Division of Human Genetics, Department of Medical Genetics, Molecular and Clinical Pharmacology, Medical University of Innsbruck, Innsbruck, Austria; Department of Clinical Biochemistry, Christian Medical College Vellore, Tamil Nadu, India, (6)Division of Human Genetics, Department of Medical Genetics, Molecular and Clinical Pharmacology, Medical University of Innsbruck, Innsbruck, Austria: Department of Biochemistry, All India Institute of Medical Sciences, New Delhi, India. (7)Division of Human Genetics, Department of Medical Genetics, Molecular and Clinical Pharmacology, Medical University of Innsbruck, Innsbruck, Austria; Department of Obstetrics and Gynaecology, Faculty of Medicine, Siriraj Hospital, Mahidol University, Bangkok, Thailand. (8)Division of Human Genetics, Department of Medical Genetics, Molecular and Clinical Pharmacology, Medical University of Innsbruck, Innsbruck, Austria; Division of Clinical Biochemistry, Queen Mary Hospital, Hong Kong Special Administrative Region, China. (9) Graduate School of Pharmaceutical Medicine, International University of Health and Welfare, Fukuoka, Japan, (10)Max-Planck-Institute for Ornithology, Andechs, Germany. (11)Division of Genetic Epidemiology, Department of Medical Genetics, Molecular and Clinical Pharmacology, Medical University of Innsbruck, Innsbruck, Austria; Division of Human Genetics, Department of Medical Genetics, Molecular and Clinical Pharmacology, Medical University of Innsbruck, Innsbruck, Austria; Centre de Recherches Médicales de Lambaréné, Albert Schweitzer Hospital, Lambaréné, Gabon; Department for Tropical Medicine, Eberhard-Karls-University Tuebingen, Tuebingen, Germany. Electronic address: konrad.schmidt@i-med.ac.at.

OBJECTIVE: The variant allele of rs3798220 in the apolipoprotein(a) gene (LPA) is used to assess the risk for coronary artery disease (CAD) in Europeans, where it is associated with short alleles of the Kringle IV-2 (KIV-2) copy number variation (CNV) and high lipoprotein(a) (Lp(a)) concentrations. No association of rs3798220 with CAD was detected in a GWAS of East Asians. Our study investigated the association of rs3798220 with Lp(a) concentrations and KIV-2 CNV size in non-European populations to explain the missing association of the variant with CAD in Asians. METHODS: We screened three populations from Africa and seven from Asia by TaqMan Assay for rs3798220 and determined KIV-2 CNV sizes of LPA alleles by pulsed-field gel electrophoresis (PFGE). Additionally, CAD cases from India were analysed. To investigate the phylogenetic origin of rs3798220, 40 LPA alleles from Chinese individuals were separated by PFGE and haplotyped for further SNPs. RESULTS: The variant was not found in Africans. Allele frequencies in East and Southeast Asians ranged from 2.9% to 11.6%, and were very low (0.15%) in CAD cases and controls from India. The variant was neither associated with short KIV-2 CNV alleles nor elevated Lp(a) concentrations in Asians. CONCLUSION: Our study shows that rs3798220 is no marker for short KIV-2 CNV alleles and high Lp(a) in

	East and Southeast Asians, although the haplotype background is shared with Europeans. It appears unlikely that this SNP confers atherogenic potential on its own. Furthermore, this SNP does not explain Lp(a) attributed risk for CAD in Asian Indians.		
226.	Khatib MN(1), Shankar A(2), Kirubakaran R(3), Agho K(4), Simkhada P(5), Gaidhane S(6), Saxena D(7), B U(8), Gode D(9), Gaidhane A(10), Zahiruddin SQ(10). Effect of ghrelin on mortality and cardiovascular outcomes in experimental rat and mice models of heart failure: a systematic review and meta-analysis. PLoS One. 2015 May 27;10(5):e0126697. doi: 10.1371/journal.pone.0126697.eCollection 2015.	PMCID: PMC4446297 PMID: 26016489 WOS:000355185600057	INT
	Author information: (1)Department of Physiology, Datta Meghe Institute of Medical Sciences, Wardha, Maharashtra State, India. (2)Department of Nutrition, Harvard School of PublicHealth, Harvard University, Cambridge, Massachusetts, United States of America.(3)South Asian Cochrane Centre, Christian Medical College, Vellore, India.(4)Department Biostatistics, University of Western Sydney, Sydney, Australia.(5)Centre for Public Health, Liverpool John Moores University, Liverpool, United Kingdom. (6)Department of Medicine, Datta Meghe Institute of Medical Sciences,Wardha, Maharashtra State, India. (7)Indian Institute of Public Health- Gandhinagar, Public Health Foundation of India, New Delhi, India. (8)Department of Community Medicine, Manipal University, Manipal, India. (9)Datta Meghe Institute of Medical Sciences, Wardha, Maharashtra State, India. (10)Department of Community Medicine, Datta Meghe Institute of Medical Sciences, Wardha, Maharashtra State, India.		
	BACKGROUND: Heart failure (HF) continues to be a challenging condition in terms of prevention and management of the disease. Studies have demonstrated various cardio-protective effects of Ghrelin. The aim of the study is to determine the effect of Ghrelin on mortality and cardiac function in experimental rats/mice models of HF. METHODS: Data sources: PUBMED, Scopus. We searched the Digital Dissertations and conference proceedings on Web of Science. Search methods: We systematically searched for all controlled trials (upto November 2014) which assessed the effects of Ghrelin (irrespective of dose, form, frequency, duration and route of administration) on mortality and cardiac function in rats/ mice models of HF. Ghrelin administration irrespective of dose, form, frequency, duration and route of administration and enalysis: Two authors independently assessed each abstract for eligibility and extracted data on characteristics of the experimental model used, intervention and outcome measures. We assessed the methodological quality by SYRCLE's risk of bias tool for all studies and the quality of evidence by GRADEpro. We performed meta-analysis using RevMan 5.3. RESULTS: A total of 325 animals (rats and mice) were analyzed across seven studies. The meta-analysis revealed that the mortality in Ghrelin group was 31.1% and in control group was 40% (RR 0.83, 95% CI 0.46 to 1.47) i.e Ghrelin group had 68 fewer deaths per 1000 (from 216 fewer to 188 more) as compared to the control group. The meta-analysis reveals that the heart rate in rats/mice on Ghrelin was higher (MD 1.3.1, 95% CI -0.24 to 0.80, P=0.66) while the mean arterial blood pressure (MD -1.38, 95% CI -5.16 to 2.41, P=0.48) and left ventricular end diastolic pressure (MD -2.45, 95% CI -4.46 to -0.43, P=0.02) were lower ascompared to the those on placebo. There were insignificant changes in cardiac output (SMD 0.28, 95% CI -0.24 to 0.80, P=0.29) and left ventricular end systolic pressure (MD 1.48, 95% CI -3.86 to 6.82, P=0.59). CONCLUSIONS: The existing data pr		

227.	<ul> <li>Khera, P. S., Moses, V., Ahmed, M. and Kakde, S.</li> <li>Superior thyroid artery pseudoaneurysm and arteriovenous fistula following attempted internal jugular venous access and its management</li> <li><u>Indian Journal of Radiology and Imaging</u>. 2015 Jan-Mar; 25(1): 15-7</li> <li>Vascular injury during common jugular venous (IJV) access is a rare complication, usually involving injury to the common carotid artery. We describe a previously unreported complication of iatrogenic injury of IJV access involving a branch of the superior thyroid artery, and its endovascular management.</li> <li>Address: Department of Radiology, Christian Medical College, Vellore, Tamil Nadu, India.</li> </ul>	PMID: 25709159 PMCID:PMC4329680	NAT
228.	<ul> <li>Kini AT(1), Thangaraj KR, Simon E, Shivappagowdar A, Thiagarajan D, Abbas S,Ramachandran A, Venkatraman A.</li> <li>Aberrant Niche Signaling in the Etiopathogenesis of Ulcerative Colitis.</li> <li>Inflamm Bowel Dis. 2015 Nov;21(11):2549-61. doi: 10.1097/MIB.000000000000523.</li> <li>Author information: <ul> <li>(1)*Centre for Stem Cell Research, Christian Medical College, Vellore, India;</li> <li>*Wellcome Trust Research Laboratory, Division of Gastrointestinal Sciences,</li> <li>Christian Medical College, Vellore, India; and ±Department of Gastroenterology, Division of Gastrointestinal Sciences, Christian Medical College, Vellore, India.</li> </ul> </li> <li>BACKGROUND: Primary colonic epithelial defects leading to inflammatory responses are considered central to the development of ulcerative colitis (UC). However, a systematic analysis of various colonic subcompartments in the pathogenesis of UC before inflammation remains elusive. Here, we explored changes in colonic subcompartments and their associated niche signals in patient mucosal biopsies and in an animal model of colitis. METHODS: Analysis of mucosal biopsies obtained from uninvolved and involvedregions of patients with UC and Crohn's disease was performed and compared withnormal subjects. Temporal analysis of colonic subcompartments was performed inmice administered with 5% dextran sodium sulphate. Phenotypic enumeration of the crypt subcompartment was complemented with flow cytometric analysis. Members ofNotch and Wnt signaling pathways were analyzed by molecular, biochemical, andcolocalization studies. RESULTS: Phenotypic enumeration of colonocytes' subcompartments from patientsrevealed significant alterations of the lower crypt, enriched in stem cell andprogenitors, independent of inflammation. These changes, unique to UC, wereconfirmed by immunohistochemistry and molecular analysis. In parallel, a defectin proliferation and Muc2 synthesis was observed. Animal data before inflammationrecapitulated human studies. Mechanistic studies reveal</li></ul>	PMID: 26197452 WOS:000363970400007	INT
229.	Kisku S(1), Varghese L(2), Kekre A(2), Sen S(3), Karl S(3), Mathai J(3), ThomasRJ(3), Kishore R(3). Bowel vaginoplasty in children and young women: an institutional experience with 55 patients. Int Urogynecol J. 2015 Oct;26(10):1441-8. doi: 10.1007/s00192-015-2728-3. Epub2015 May 12.	PMID: 25963059 WOS:000361638900006	INT
	Author information: (1)Department of Paediatric Surgery, Christian Medical College, Vellore, India,		

<ul> <li>Vellore, India, 632004. (3)Department of Paediatric Surgery, Christian Medical College, Vellore, India, 632004.</li> <li>INTRODUCTION AND HYPOTHESIS: Absence of a vagina owing to congenital Mullerian defects or other acquired causes requires reconstruction of the female genital passage. We present our experience using various bowel segments. METHODS: Bowel vaginoplasty was performed in 55 patients from January 2004 through May 2014 for cervicovaginal atresia (20), Mayer-Rokitansky-Küster-Hauser (MRKH) syndrome (20), distal vaginal atresia (3), cloaca (2), cervical atresia (1), complex urogenital sinus (1), transverse vaginal septum (1), rhabdomyosarcoma of the vagina (1), and traumatic stricture of the vagina (1). The bowel segments used were sigmoid (50), ileum (2), anorectovestibular fistula (2), and loop rectovaginoplasty (1). RESULTS: Thirty-nine patients who had the proximal vagina or uterus anastomosed to the bowel segment reported regular menstrual flows. Three patients are sexually active with satisfactory coital function. None of our patients developed pyometra. Five patients had meovaginal mucosal prolapse. Two patients had severe stenosis requiring excision of the neovagina. Seven patients had mild stenosis requiring dilatations in 6 patients and V-Y meatoplasty for 1 patient. One patient had a descending colon anastomotic leak requiring a diversion ileostomy. CONCLUSIONS: Genital reconstruction with bowel vagina with good outcomes. Utero-coloneovaginoplasty is a safe procedure preserving the menstrual flow in patients with a functional uterine fundus.</li> <li>230. Kisku, S., Sen, S., Karl, S., Mathai, J., Thomas, R. J. and Barla, R. Bladder calculi in the augmented bladder: A follow-up study of 160 children and adolescents J Pediatr Urol; 2015, 11 (2): 66 e1-6 INTRODUCTION: Bladder augmentation (BA) has been used for various congenital and acquired conditions to create a low pressure, continent catheterizable reservoir. The prevalence of calculi within the BA have been reported</li></ul>		Circ Scientific Tobeleanou Tok The TEAK 2015 (JANOAKT TO Deci	/	
<ul> <li>acquired causes requires reconstruction of the female genital passage. We present our experience using various bowel segments. METHODS: Bowel vaginoplasty was performed in 55 patients from January 2004 through May 2014 for cervicovaginal atresia (20), Mayer-RokitanskyKüster-Hauser (MRKH) syndrome (20), distal vaginal atresia (8), cloaca (2), cervical atresia (1), complex urogenital sinus (1), transverse vaginal septum (1), rhabdomyosarcoma of the vagina (1), and traumatic stricture of the vagina (1).The bowel segments used were sigmoid (50), ileum (2), anorectovestibular fistula (2), and loop rectovaginoplasty (1). RESULTS: Thirty-nine patients who had the proximal vagina or uterus anastomosed to the bowel segment reported regular menstrual flows. Three patients are sexually active with satisfactory coital function. None of our patients developed pyometra. Five patients had neovaginal mucosal prolapse. Two patients had severe stenosis requiring exision of the neovagina. Seven patients had beenose. Utero-coloneovaginoplasty is a darable and lubricated replacement of the vagina with good outcomes. Utero-coloneovaginoplasty is a safe procedure preserving the menstrual flow in patients with a functional uterine fundus.</li> <li>230. Kisku, S., Sen, S., Karl, S., Mathai, J., Thomas, R. J. and Barla, R. Bladder calculi in the augmented bladder: A follow-up study of 160 children and adolescents J Pediatr Urol; 2015, 11 (2): 66 e1-6 INTRODUCTION: Bladder augmentation (BA) has been used for various congenital and acquired conditions to create a low pressure, continent catheterizable reservoir. The prevalence of calculi within the BA have been reported to be from 3 to 52.5%. The present study reports the prevalence and risk factors of bladder calculi in patients with BA. MATERIAL AND METHODS: A retrospective review of 160 patients was performed from</li> </ul>				
Bladder calculi in the augmented bladder: A follow-up study of 160 children and adolescents J Pediatr Urol; 2015, 11 (2): 66 e1-6 INTRODUCTION: Bladder augmentation (BA) has been used for various congenital and acquired conditions to create a low pressure, continent catheterizable reservoir. The prevalence of calculi within the BA have been reported to be from 3 to 52.5%. The present study reports the prevalence and risk factors of bladder calculi in patients with BA. MATERIAL AND METHODS: A retrospective review of 160 patients was performed from		acquired causes requires reconstruction of the female genital passage. We present our experience using various bowel segments. METHODS: Bowel vaginoplasty was performed in 55 patients from January 2004 through May 2014 for cervicovaginal atresia (20), Mayer-Rokitansky-Küster-Hauser (MRKH) syndrome (20), distal vaginal atresia (8), cloaca (2), cervical atresia (1), complex urogenital sinus (1), transverse vaginal septum (1), rhabdomyosarcoma of the vagina (1), and traumatic stricture of the vagina (1).The bowel segments used were sigmoid (50), ileum (2), anorectovestibular fistula (2), and loop rectovaginoplasty (1). RESULTS: Thirty-nine patients who had the proximal vagina or uterus anastomosed to the bowel segment reported regular menstrual flows. Three patients are sexually active with satisfactory coital function. None of our patients developed pyometra. Five patients had neovaginal mucosal prolapse. Two patients had severe stenosis requiring excision of the neovagina. Seven patients had mild stenosis requiring dilatations in 6 patients and V-Y meatoplasty for 1 patient. One patient had a descending colon anastomotic leak requiring a diversion ileostomy. CONCLUSIONS: Genital reconstruction with bowel vaginoplasty is a highly skilled operation that provides a durable and lubricated replacement of the vagina with good outcomes. Utero-coloneovaginoplasty is a safe procedure preserving the menstrual flow in patients with a functional uterine		
January 1997 through December 2012. The various risk factors for the formation of bladder calculi such as the nature of the anatomical defect, presence of preoperative urinary calculi, type of bowel augmentation, addition of a mitrofanoff and/or bladder neck procedure, prevalence of post-operative urinary tract infections (UTIS), need for mitrofanoff revision due to stenosis/difficulty catheterization, postoperative significant hydronephrosis and bladder calculi were recorded for analysis. The children underwent open removal or endoscopic cystolithotripsy. One hundred and eight males and 52 females (average age 6.3 years) were followed up for a median of 70.5 months. All patients performed daily bladder irrigation with tap or drinking water. RESULTS: Post-operative bladder calculi were noted in 14 (8.8%) of 160 patients following BA. Median time to stone formation was 37.5 months (11-120 months). Recurrent febrile UTIs were noted in 16 of the 160 patients following BA. The various risk factors and their outcomes are summarized in table. Eight patients underwent open cystolithotomy and four patients were treated by cystolithotripsy. Post-operative recurrent bladder calculi were independent risk factors for developing postoperative calculi in bladder augmentations. All other risk factors did not achieve statistical significance. DISCUSSION: There seemed to be no difference in the prevalence of calculi in the ileal or colonic augmentations. Mucus secreted by the bowel segment blocks catheters leading to incomplete drainage, stagnation and UTIs. Our protocol consists of daily bladder irrigation till the effluents are clear of mucus. This is probably the key to the low	230.	Bladder calculi in the augmented bladder: A follow-up study of 160 children and adolescents J Pediatr Urol; 2015, 11 (2): 66 e1-6 INTRODUCTION: Bladder augmentation (BA) has been used for various congenital and acquired conditions to create a low pressure, continent catheterizable reservoir. The prevalence of calculi within the BA have been reported to be from 3 to 52.5%. The present study reports the prevalence and risk factors of bladder calculi in patients with BA. MATERIAL AND METHODS: A retrospective review of 160 patients was performed from January 1997 through December 2012. The various risk factors for the formation of bladder calculi such as the nature of the anatomical defect, presence of preoperative urinary calculi, type of bowel augmentation, addition of a mitrofanoff and/or bladder neck procedure, prevalence of post-operative urinary tract infections (UTIs), need for mitrofanoff revision due to stenosis/difficulty catheterization, postoperative significant hydronephrosis and bladder calculi were recorded for analysis. The children underwent open removal or endoscopic cystolithotripsy. One hundred and eight males and 52 females (average age 6.3 years) were followed up for a median of 70.5 months. All patients performed daily bladder irrigation with tap or drinking water. RESULTS: Post-operative bladder calculi were noted in 14 (8.8%) of 160 patients following BA. Median time to stone formation was 37.5 months (11-120 months). Recurrent febrile UTIs were noted in 16 of the 160 patients following BA. The various risk factors and their outcomes are summarized in table. Eight patients underwent open cystolithotomy and four patients were treated by cystolithotripsy. Post-operative recurrent bladder calculi were noted in 2 patients. Multivariate analysis revealed that exstrophy/epispadias (OR 17.2) and recurrent UTI (OR 55.4) were independent risk factors for developing postoperative calculi in bladder augmentations. All other risk factors did not achieve statistical significance. DISCUSSION: There seeme		INT
Enrovalonce of nectonorative calculu (8.8%) in our nationte. (CINCEUSION: Bladder exetrenby/onichadiae and				

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231.	UTIs are independent statistically significant risk factors for the formation of bladder calculi in BA patients. Other risk factors such as preoperative calculi, bladder neck procedures and the use of mitrofanoff though not statistically significant, may contribute to the overall risk. The performance of daily bladder irrigation is an important part of our management of mucus. Address: Department of Paediatric Surgery, Christian Medical College, Vellore 632004, India. Electronic address: skisku@yahoo.com. Department of Paediatric Surgery, Christian Medical College, Vellore 632004, India. Kompithra RZ(1), Sarkar R, Mathew LG, Muliyil J, Kang G.	PMID: 26615339	NAT
	<ul> <li>Study of Common Illnesses Before and After Vaccination: A Risk interval Approach.</li> <li>Indian Pediatr. 2015 Nov 9;52(11):933-8.</li> <li>(1)Departments of Child Health and *Gastrointestinal Sciences, Christian Medical College, Vellore, Tamil Nadu, India. Correspondence to: Dr Rajeev Z Kompithra, Department of Child Health, Christian Medical College and Hospital, Vellore, Tamil Nadu, India. rajeev.k zachariah@yahoo.in.</li> <li>OBJECTIVE: To compare the proportion of children who developed a specified illness in the 7 day post-vaccination window, with the background rate of the same event in the 7 day pre-vaccination window. STUDY DESIGN: Risk interval approach (Self-controlled case-series). SETTING: Well Baby Clinic of Christian Medical College, Vellore. PARTICIPANTS: 1602 healthy infants and under-six children presenting for routine vaccination. OUTCOME MEASURES: Episode of any illness. METHODS: The interviewer enquired about any adverse event or illness experienced by the child for each day of the week preceding the administration of age-appropriate vaccines. A second interview (telephonic) was conducted by the same interviewer one week following vaccine administration to enquire about adverse event(s) experienced by the child for each day of the subsequent week using a similar protocol. RESULTS: With multiple vaccines delivered at appropriate ages, common childhoodillnesses that could be reported as adverse events following immunization, exceptfever (RR=5.7, 95% CI=4.50-7.35), occurred at higher rates pre-vaccination. Risk Ratios of fever following who cell (RR=9.3, 95% CI=0.14-2.51)</li> </ul>	WOS:000365557300003	
232.	<ul> <li>and vomiting (RR=1.0, 95% CI=0.14-7.10)] for rotavirus vaccine was similar pre- and post-immunization.</li> <li>CONCLUSIONS: Since most adverse events to vaccines are also common childhood illnesses, estimating the background rates of common illnesses is important to accurately ascertain a causal relationship.</li> <li>Korula A, George B, Ganapule A, Jain P, Lakshmi K, Abubacker F, et al.</li> <li>Outcome of Pediatric Acute Myeloid Leukemia Treated with AML-BFM 98 PROTOCOL in a Developing Country:</li> </ul>	WOS:000367478800110	INT
	Lessons and Challenges. ANNALS OF HEMATOLOGY 94:S94-S95 · FEBRUARY 2015		
233.	<ul> <li>Krishnamoorthy A(1), Joel A(1), Abhilash KP(1).</li> <li>Cryptococcal Meningitis with Multiple Canial Nerves Palsies: A Review of Literature.</li> <li>J Glob Infect Dis. 2015 Jul-Sep;7(3):123-4. doi: 10.4103/0974-777X.161739.</li> <li>Author information: <ul> <li>(1)Department of Medicine IV, Christian Medical College, Vellore, Tamil Nadu,</li> </ul> </li> </ul>	PMID: 26392724	NAT

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	India.		
234.	<ul> <li>Krishnamoorthy VP(1), Perumal R(2), Daniel AJ(3), Poonnoose PM(3).</li> <li>Accuracy of templating the acetabular cup size in Total Hip Replacement using conventional acetate templates on digital radiographs.</li> <li>J Clin Orthop Trauma. 2015 Dec;6(4):215-9. doi: 10.1016/j.jcot.2015.04.001. Epub 2015 May 11.</li> <li>(1)Associate Professor, Department of Orthopaedics, Christian Medical College, Vellore 632004, Tamil Nadu, India. (2)Registrar, Department of Orthopaedics, Christian Medical College, Vellore 632004, Tamil Nadu, India. (3)Professor, Department of Orthopaedics, Christian Medical College, Vellore 632004, Tamil Nadu, India.</li> <li>OBJECTIVE: Templating of the acetabular cup size in Total Hip Replacement (THR) is normally done using conventional radiographs. As these are being replaced by digital radiographs, it has become essential to create a technique of templating using digital films. We describe a technique that involves templating the digital films using the universally available acetate templates for THR without the use of special software. MATERIALS AND METHODS: Preoperative digital radiographs of the pelvis were taken with a 30 mm diameter spherical metal ball strapped over the greater trochanter. Using standard acetate templates provided by the implant company on magnified digital radiographs, the size of the metal ball (X mm) and acetabular cup (Y mm) were determined. The size of the acetabular cup to be implanted was estimated using the formula 30*Y/X. The estimated size was compared with the actual size of the cup used at surgery. RESULTS: Using this technique, it was possible to accurately predict the acetabular cup size in 28/40 (70%) of the hips. When the accuracy to within one size was considered, templating was correct in 90% (36/40). When assessed by two independent observers, there was good intra-observer and inter-observer reliability with intra-class correlation coefficient values greater than 0.8. CONCLUSION: It was possible to accurately and reliably predict the size</li></ul>	PMID: 26566332	NAT
235.	<ul> <li>Kron T(1,)(2), Azhari HA(3), Voon EO(4), Cheung KY(5), Ravindran P(6), SoejokoD(7), Inamura K(8), Han Y(9), Ung NM(10), TsedenIsh B(11), Win UM(12), SrivastavaR(13), Marsh S(14), Farrukh S(15), Rodriguez L(16), Kuo M(17), Baggarley S(18),DilipKumara AH(19), Lee CC(20), Krisanachinda A(21), Nguyen XC(22), NgKH(23,)(24).</li> <li>Medical physics aspects of cancer care in the Asia Pacific region: 2014 survey results.</li> <li>Australas Phys Eng Sci Med. 2015 Sep;38(3):493-501. doi: 10.1007/s13246-015-0373-2. Epub 2015 Sep 7.</li> <li>Author information: (1)Physical Sciences, Peter MacCallum Cancer Cancer Institute, Locked Bag 1, A'Beckett St, Melbourne, 8006, Australia. Tomas.Kron@petermac.org. (2)RMIT University, Melbourne, Australia. Tomas.Kron@petermac.org. (2)RMIT University, Melbourne, Scientific Services, Ministry of Health, Muara, Brunei Darussalam. (5)Department of Clinical Oncology, Prince of Wales Hospital, Hong Kong, China SAR. (6)Department of Radiation Oncology, Christian Medical College,</li> </ul>	PMID: 26346030 WOS:000361762700012	INT

PMID - PUBMED ID; PMCID - PUBMEDCENTRAL ID; WOS - WEB OF SCIENCE ID

Vellore, India. (7)Physics Department, University of Indonesia, Jakarta, Indonesia. (8)Professor Emeritus,		
<ul> <li>Verlöre, India: () Physics bepartment, onversity of Indonesia, Jaaran (Johnson, Montesity, Control (Context), Second (Context), S</li></ul>		
<ul> <li>Kulkarni U(1), Valson A(2), Korula A(3), Mathews V(1). Leukocyte Derived Chemotaxin 2 (ALECT2) Amyloidosis.</li> <li>Mediterr J Hematol Infect Dis. 2015 Jul 1;7(1):e2015043. doi: 10.4084/MJHID.2015.043. eCollection 2015.</li> <li>Author information:</li> <li>(1)Department of Clinical Haematology. Christian Medical College and Hospital, Vellore, Tamil Nadu, India.</li> <li>(2)Department of Nephrology. Christian Medical College and Hospital, Vellore, Tamil Nadu, India.</li> <li>(3)Department of General Pathology. Christian Medical College and Hospital, Vellore, Tamil Nadu, India.</li> </ul>	PMC4500494, PMID: 26185608	INT
	<ul> <li>University, Seoui, Republic of Korea. (10)Clinical Oncology Unit, University of Malaya, Kuala Lumpur, Malayaia. (11)Radiotherapy Department, National Cancer Centre, Ulaanbaatar, Mongolia. (12)Ministry of Health, Yangoon, Myanmar. (13)Department of Radiotherapy, Ghent University Hospital, De Pintelaan 185, Ghent, Belgium. (14)Department of Physics and Astronomy, University of Canterbury, Christchurch, New Zealand. (15)Department of Radiation Oncology, Atomic Energy Medical Centre, Karachi, Pakistan.</li> <li>(15)Department of Radiation Oncology, Cancer Institute (Hospital), Chinese Academy of Medical Sciences, Beljing, China. (18)Department of Radiation Oncology, National University Taoyuan, Taiwan. (21)Department of Radiological Sciences, Chang Gung University, Taoyuan, Taiwan. (21)Department of Radiological Sciences, Chang Gung University, Taoyuan, Taiwan. (21)Department of Radiological Sciences, Chang Gung University, Taoyuan, Taiwan. (21)Department of Radiology, Faculty of Medical Physics, Teaching Hospital Karapitiya, Galle, Sri Lanka. (20)Department of Radiology, Faculty of Medical Physics Unit, University of Malaya Kuala Lumpur, Malaysia.</li> <li>It was the aim of this work to assess and track the workload, working conditions and professional recognition of radiation oncology medical physicists (ROMPs) in the Asia Pacific region over time. In this third survey since 2008, a structured questionnaire was malled in 2014 to 22 senior medical physicists representing 23 countries. As in previous surveys the questionnaire covered seven themes: 1 education, training a und professional certification, 2 staffing, 3 typical tasks, 4 professional organisations, 5 resources, 6 research and teaching, and 7 job satisfaction. The response rate of 100% is a result of performing a survey through a network, which allows easy follow-up. The replies cover 4841 ROMPs in 23 countries. The increase in staff is matched by a similar increase in the number of treatment</li> <li>untwork, which allows easy follow-up, The re</li></ul>	University, Seoul, Republic of Korea. (10)Clinical Oncology Unit, University of Malaya, Kuala Lumpur, Malaysia. (11)Radiotherapy Department, National Cancer Centre, Ulanabatar, Mongolia. (12)Ministry of Health, Yangoon, Myanmar. (13)Department of Radiotherapy, Ghent University Hospital, Dee Pintelaan 185, Ghent, Belgium, (14)Department of Radiation Oncology, Atomic Energy Medical Centre, Karachi, Pakistan. (15)Department of Radiotherapy, Jose R. Reyes Memorial Medical Centre, Karachi, Pakistan. (17)Department of Radiotion Oncology, Cancer Institute (Hospital), Chinese Academy of Medical Sciences, Beijing, China. (18)Department of Radiation Oncology, National University Cancer Institute, Singapore, Singapore, Caltly of Medical Posics, Teaching Hospital Karapitay, Galle, Sri Lanka. (20)Department of Medical Imaging and Radiological Sciences, Chang Gung University, Taoyuan, Taiwan. (21)Department of Medical Imaging and Radiological Sciences, Chang Gung University, Taoyuan, Taiwan. (21)Department of Medical Physics Unit, University of Malaya Medical Centre, Kuala Lumpur, Malaysia. (24)Medical Physics Unit. University of Malaya Medical Centre, Kuala Lumpur, Malaysia. It was the aim of this work to assess and track the workload, working conditions and professional recognition of radiation oncology medical physicists (ROMPs) in the Asia Pacific region over time. In this third survey since 2008, a structured questionnaire was mailed in 2014 to 22 senior medical physicists representing 23 countries. As in previous surveys the questionnaire covered seven themes: 1 education, training and professional certification. 2 staffing. 3 typical tasks, 4 professional organisations, 5 resources, 6 research and teaching, and 7 job satisfaction. The respines cover 4841 ROMPs in 23 countries. Compared to 2008, the number of medical physicists practice has not changed significantly over the last 6 years in the Asia Pacific Region even if the number of countries using complex techniques (IMRT, IGRT) or installin findend eaujment (comot

	male presented with progressive renal dysfunction and non-nephrotic range proteinuria. Serum protein electrophoresis and immunofixation were normal, with mildly elevated serum free light chain ratio. A renal biopsy confirmed the presence of amyloid. Immunohistochemistry was negative for monoclonal light chains. Proteomic analysis confirmed the presence of ALECT2 amyloid. The present case highlights the need for confirmatory testing for typing of amyloid.		
237.	<ul> <li>Kumar AS(1), Singh IR(1), Sharma SD(2), Ravindran BP(1).</li> <li>Performance characteristics of mobile MOSFET dosimeter for kilovoltage X-raysused in image guided radiotherapy.</li> <li>J Med Phys. 2015 Jul-Sep;40(3):123-8. doi: 10.4103/0971-6203.165074.</li> <li>Author information: <ul> <li>(1)Department of Radiotherapy, Christian Medical College, Vellore, Tamil Nadu,India. (2)Radiological Physics and Advisory Division, Bhabha Atomic ResearchCentre, CTCRS, Anushaktinagar, Mumbai, India.</li> </ul> </li> <li>The main objective of this study was to investigate the characteristics of metal oxide semiconductor field effect transistor (MOSFET) dosimeter for kilovoltage</li> <li>(kV) X-ray beams in order to perform the in vivo dosimetry during image guidance in radiotherapy. The performance characteristics of high sensitivity MOSFET dosimeters were investigated for 80, 90, 100, 110, 120, and 125 kV X-ray beams used for imaging in radiotherapy. This study was performed using Clinac 2100 C/D medical electron linear accelerator with on-board imaging and kV cone beam computed tomography system. The characteristics studied in this work include energy dependence, angular dependence, and linearity. The X-ray beam outputs were measured as per American Association of Physicists in Medicine (AAPM) TG 61 recommendations using PTW parallel plate (PP) ionization chamber, which was calibrated in terms of air kerma (Nk) by the National Standard Laboratory. The MOSFET dosimeters were calibrated against the PP ionization chamber for all the kV X-ray beams and the calibration coefficient was found to be 0.11 cGy/MV with a standard deviation of about ±1%. The response of MOSFET dosimeter was also found independent of angle of incidence for the gantry angles in the range of 0° to 360° in-air as well as at 3 cm depth in tissue equivalent phantom.</li> </ul>	PMID: 26500397	NAT
238.	<ul> <li>Kumar M(1), Santhanam S.</li> <li>Acquired Lung Cyst in a Newborn Baby with Cytomegalovirus Infection.</li> <li>Indian Pediatr. 2015 Nov 8;52(11):996.</li> <li>(1)Department of Neonatology, Christian Medical College, Vellore.</li> <li><u>maneeshdr@gmail.com</u>.</li> </ul>	PMID: 26615361 WOS:000365557300025	NAT
239.	Kumar S(1), Paul A(1), Ghosh A(1), Raut R(1). Psammomatoid variant of juvenile ossifying fibroma involving mandible: A rare case report. Contemp Clin Dent. 2015 Oct-Dec;6(4):581-3. doi: 10.4103/0976-237X.169839.	PMC4678565 PMID: 26681872	NAT

	Chie Selentine i Oblication i on the TEAK 2015 (PAROART 10 Deel		
	(1)Department of Dental and Oral Surgery Unit-1, Christian Medical College Hospital, Vellore, Tamil Nadu, India.		
	The term juvenile ossifying fibroma (JOF) is used in literature in naming two microscopically distinct fibro-osseous lesions of the craniofacial skeleton. One is characterized by small uniform spherical ossicles resembling psammoma bodies (psammomatoid JOF [PsJOF]). The other is distinguished by trabeculae of fibrillary osteoid and woven bone (trabecular JOF). Psammomatoid ossifying fibromas represent a unique subset of fibro-osseous lesions of the craniofacial region. PsJOF has been distinguished because of its location, clinical behavior, and age of occurrence. They have distinctive histomorphologic features and a tendency toward locally aggressive behavior, including invasion and destruction of adjacent anatomic structures. It is generally seen in the younger age group, and the most common site is paranasal sinuses, orbits, and frontoethmoidal complex. We report a case of JPOF involving mandible which is rarely been described in literature. An insight into the radiographic progression of this rare entity along with the clinical feature and surgical management is discussed.		
240.	Kumar V(1), Jose J(2), Joseph G(2). Rupture of sinus of Valsalva aneurysm into the left ventricle after dissecting through the interventricular septum mimicking aortic regurgitation.	PMID: 26667232	INT
	Clin Res Cardiol. 2015 Dec 14. [Epub ahead of print]		
	Department of Cardiology, Ruban Patliputra Hospital, Patna, India. docvipin2005@gmail.com. (2)Department of Cardiology, Christian Medical College, Vellore, India.		
241.	Kumar V(1), Varghese MJ(2), George OK(1). Transcatheter closure of direct right pulmonary artery to left atrial communication using vascular plug.	PMID: 26604236	INT
	BMJ Case Rep. 2015 Nov 24;2015. pii: bcr2015212878. doi: 10.1136/bcr-2015-212878.		
	(1)Christian Medical College, Vellore, Vellore, Tamilnadu, India. (2)Department of Cardiology, Christian Medical College, Vellore, Tamilnadu, India.		
	A direct right pulmonary artery to left atrial fistula is a rare congenital condition in which patients usually present with isolated cyanosis in the absence of abnormal cardiovascular findings. We report the percutaneous closure of such a defect in a young woman who presented with severe cyanosis. This was achieved without making a conventional venovenous loop and was performed using an Amplatzer vascular plug. We believe, in patients with a suitable anatomy, closurewith vascular plug without a venovenous loop should be the method of choice fortreating this malady in view of the technical ease.		
242.	Kumar V(1), Varghese MJ(2), Raveendran S(3), George OK(1). Pseudoaneurysm following transradial coronary angiogram.	26358573	INT
	Eur Heart J. 2015 Sep 10. pii: ehv425. [Epub ahead of print]		
	Author information:		

	(1)Department of Cardiology, Christian Medical College, Vellore, India. (2)Department of Cardiology, Christian Medical College, Vellore, India drmithunjv@gmail.com. (3)Dr. Paul Brand Centre for Hand Surgery, Christian Medical College, Vellore, India.		
243.	Kumar, S., Paul, A., Parmar, H. and Chacko, R. Primary malignant mixed germ cell tumour with squamous cell carcinoma of the mandible; A rare entity Journal of Clinical and Diagnostic Research; 2015, 9 (6): ZD16-ZD18 Germ cell Tumours (GCT) are neoplasm derived from germ cells. GCT usually occurs inside the gonads. Extragonadal GCTnulls are rare. Most common GCT associated with head and neck region are the teratomas. Of the few teratomas found in the head and neck, malignant transformation of a teratomatous element is very uncommon, and primary bone involvement within the head and neck is even rare. We present a case of primary malignant mixed germ cell Tumour involving the mandible, the present case presented malignant transformation of the epithelial component showing foci of squamous cell carcinoma within the GCT. Address: S. Kumar, Department of Dental and Oral surgery unit 1 OPD Block, Christian Medical College and Hospital, Vellore, India	PMCID: PMC4525618	NAT
244.	<ul> <li>Kurian, J. J. and Ninan, P. J.</li> <li>A rare case of bilateral cystic partially differentiated nephroblastoma recurring as bilateral cystic Wilms tumour</li> <li>BMJ Case Rep; 2015, 2015 Childhood cystic partially differentiated nephroblastoma (CPDN) is an uncommon renal neoplasm. Bilateral CPDN or CPDN co-existing with a cystic nephroma/Wilms tumour is extremely rare. Treatment of CPDN is by complete surgical excision. Although local recurrences are uncommon, distant metastases have not been described. We present a case of bilateral CPDN that, after complete excision, recurred as bilateral cystic Wilms tumour. To the best of our knowledge, this is the first reported case in the literature where a bilateral CPDN has recurred as bilateral Wilms tumour.</li> <li>Address: Department of Paediatric Surgery, Christian Medical College, Vellore, Tamil Nadu, India.</li> </ul>	PMID: 25878237	INT
245.	Kurian, J. J., Bal, H. S. and Sen, S. Use of congenital pouch colon for augmenting the neurogenic bladder in a child: a 13-year follow-up BMJ Case Rep; 2015, 2015 Congenital pouch colon is an anomaly always associated with anorectal malformation, where the colon is replaced by or terminates into a large aperistaltic intestinal pouch. Vertebral anomalies leading to neurogenic bladder are rare associated malformations. The pouch is aperistaltic and thus a poor rectal substitute but this very property makes it ideal for bladder augmentation. We report the first case where the pouch has been used to augment a high-pressure neurogenic bladder. Address: Department of Paediatric Surgery, Christian Medical College, Vellore, Tamilnadu, India.	PMID: 25766441	INT
246.	Kurian, J. J., Sen, S., Joseph, R. T. and Bindra, M. S. A rare case of bilateral cystic nephroma associated with embryonal rhabdomyosarcoma of the penile urethra J Indian Assoc Pediatr Surg; 2015, 20 (2): 82-3 Bilateral cystic nephroma is an extremely rare benign renal neoplasm. Here we present a case of bilateral cystic nephroma in a four month old boy who subsequently developed embryonal rhabdomyosarcoma of the urethra. Both tumors were successfully treated. To our knowledge this is the first reported case of this association which could be related to Dicer-1 mutation. Address: Department of Paediatric Surgery, Christian Medical College, Vellore, Tamil Nadu, India. Department of Pathology, Christian Medical College, Vellore, Tamil Nadu, India.	PMID: 25829672 4360460: 4360460	NAT

247.	Kurien B, Harris V, Quadri S, De Souza P, Cavett J, Moyer A, et al.	WOS:000360421900125	INT
247.	Ultrasoluble curcumin/turmeric significantly reduces lymphadenopathy and proteinuria in MRL-Ipr/Ipr mice,	103.000300421900123	1111
	but only curcumin increases survival.		
	Clinical and Experimental Rheumatology. 2015;33(3):S34-		
248.	Kurien BT(1), Harris VM(2), Quadri SM(2), Coutinho-de Souza P(3), Cavett J(2),C Moyer A(4), Ittiq B(4), Metcalf A(3), Ramji HF(5), Truong D(6), Kumar R(3),Koelsch KA(1), Centola M(7), Payne A(7), Danda D(8), Scofield RH(1). Significantly reduced lymphadenopathy, salivary gland infiltrates and proteinuria in MRL-lpr/lpr mice treated with ultrasoluble curcumin/turmeric: increased survival with curcumin treatment.	PMID: 26380101 PMCID: PMC4567741 WOS:000370860203182	INT
	Lupus Sci Med. 2015 Sep 8;2(1):e000114. doi: 10.1136/lupus-2015-000114. eCollection 2015.		
	Author information: (1)Department of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma, USA; Oklahoma Medical Research Foundation, Arthritis & Clinical Immunology Program, Oklahoma City, Oklahoma, USA; Department Veterans Affairs Medical Center, Oklahoma City, Oklahoma, USA. (2)Department of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma, USA; Oklahoma Medical Research Foundation, Arthritis & Clinical Immunology Program, Oklahoma City, Oklahoma, USA. (3)Oklahoma Medical Research Foundation, Arthritis & Clinical Immunology Program, Oklahoma City, Oklahoma, USA. (4)Department of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma, USA. (5)Oklahoma School of Science and Mathematics, Oklahoma City, Oklahoma, USA; University of Oklahoma, USA. (7)Haus Bioceuticals, Oklahoma City, Oklahoma, USA. (8)Christian Medical College, Vellore, Tamil Nadu, India.		
	OBJECTIVES: Commercial curcumin (CU), derived from food spice turmeric (TU), has been widely studied as a potential therapeutic for a variety of oncological and inflammatory conditions. Lack of solubility/bioavailability has hindered curcumin's therapeutic efficacy in human diseases. We have solubilised curcumin in water applying heat/pressure, obtaining up to 35-fold increase in solubility (ultrasoluble curcumin (USC)). We hypothesised that USC or ultrasoluble turmeric (UST) will ameliorate systemic lupus erythematosus (SLE) and Sjögren's syndrome (SS)-like disease in MRL-lpr/lpr mice. METHODS: Eighteen female MRL-lpr/lpr (6 weeks old) and 18 female MRL-MpJ mice (6 weeks old) were used. Female MRL-lpr/lpr mice develop lupus-like disease at the 10th week and die at an average age of 17 weeks. MRL-MpJ mice develop lupus-like disease around 47 weeks and typically die at 73 weeks. Six mice of each strain received autoclaved water only (lpr-water or MpJ-water group), USC (lpr-CU or MpJ-CU group) or UST (lpr-TU or MpJ-TU group) in the water bottle. RESULTS: USC or UST ameliorates SLE in the MRL-lpr/lpr mice by significantly reducing lymphoproliferation, proteinuria, lesions (tail) and autoantibodies. lpr-CU group had a 20% survival advantage over lpr-water group. However, lpr-TU group lived an average of 16 days shorter than lpr-water group (p=0.03 and p=0.02, respectively) by induction of apoptosis. Average lymph node weights were 2606±1147, 742±331 and 385±68 mg, respectively, for lpr-water, lpr-CU and lpr-TU mice. Transferase dUTP nick end labelling assay showed that lymphocytes in lymph nodes of lpr-CU and lpr-TU group compared with the lpr-water group, and a trend towards reduced kidney damage was observed in the lpr-CU and lpr-TU groups. CONCLUSIONS: These studies show that USC/UST could prove useful as a therapeutic intervention in SLE/SS.		

249.	<ul> <li>Kurien BT(1,)(2,)(3), Danda D(4), Scofield RH(5,)(6,)(7).</li> <li>Therapeutic potential of curcumin and curcumin analogues in rheumatology.</li> <li>Int J Rheum Dis. 2015 Jul;18(6):591-3. doi: 10.1111/1756-185X.12753.</li> <li>Author information: <ul> <li>(1)Departments of Medicine and Pathology, University of Oklahoma Health Sciences Center, Oklahoma City, OK, USA.</li> <li>(2)Arthritis &amp; Clinical Immunology Program, Oklahoma Medical Research Foundation, Oklahoma City, OK, USA.</li> <li>(3)Veterans Affairs Medical Center, Oklahoma City, OK, USA.</li> <li>(4)Christian Medical College, Vellore, India.</li> <li>(5)Departments of Medicine and Pathology, University of Oklahoma Health Sciences Center, Oklahoma City, Ok, USA. hal-scofield@omrf.ouhsc.edu.</li> <li>(6)Arthritis &amp; Clinical Immunology Program, Oklahoma City, OK, USA.</li> </ul> </li> </ul>	PMID: 26301972 WOS:000360378700001	INT
250.	<ul> <li>Kurien R(1), Babu TR(2), Rupa V(1).</li> <li>Unusual cause of maxillary sinus mass with proptosis.</li> <li>BMJ Case Rep. 2015 Sep 21;2015. pii: bcr2015210627. doi: 10.1136/bcr-2015-210627.</li> <li>Author information: <ul> <li>(1)Department of ENT-3, Christian Medical College, Vellore, Tamil Nadu, India.</li> <li>(2)Department of General Pathology, Christian Medical College, Vellore, Tamil Nadu, India.</li> </ul> </li> <li>We report a case of a 21-year-old Indian man with an 8-month history of left-sided headache, maxillary sinus mass, proptosis and swelling of the left temple, whose contrast-enhanced CT scans of the paranasal sinuses showed an enhancing, destructive soft tissue mass involving the left maxillary sinus, orbit, infratemporal fossa and anterior cranial fossa, suggestive of a malignancy or chronic granulomatous disease. Histopathological examination of the sinus mass, which was debulked and partially excised via an endoscopic approach, suggested a diagnosis of immunoglobulin G4-related sclerosing disease of the maxillary sinus. Subsequent immunohistochemical staining and biochemical tests confirmed the diagnosis. We highlight the importance of considering this increasingly recognised but rare entity that can mimic a malignant lesion with its clinical and radiological features but which, unlike the latter, has a very good prognosis with appropriate treatment.</li> </ul>	PMID: 26392443	INT
251.	Kuruvilla, S., Peter, J., David, S., Premkumar, P. S., Ramakrishna, K., Thomas, L., Vedakumar, M. and Peter, J. V. Incidence and risk factor evaluation of exposure keratopathy in critically ill patients: a cohort study J Crit Care; 2015, 30 (2): 400-4 PURPOSE: Recent emphasis on eye care in intensive care unit (ICU) patients has translated to eye assessment being part of routine care. In this setting, we determined the incidence, risk factors, and resolution time of exposure keratopathy. METHODS: In this prospective cohort study, 301 patients were examined within 24 hours of ICU admission and subsequently daily by an ophthalmologist till death or discharge. Eyelid position, conjunctival and corneal changes, treatment, and outcome data were collected. RESULTS: Admission diagnoses included febrile illnesses (35.2%) and respiratory failure (32.6%); 84.1% were ventilated. Forty-nine patients had exposure keratopathy (bilateral = 35, unilateral = 14) at admission; 35 patients developed new onset keratopathy (incidence 13.2%) 4.6 +/- 2.6 days after ICU admission. In 67	PMID: 25468364 WOS:000349913800033	INT

PMID - PUBMED ID; PMCID - PUBMEDCENTRAL ID; WOS - WEB OF SCIENCE ID

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	<ul> <li>patients, keratopathy was mild (punctate epithelial erosions). Macroepithelial defects (n = 9), stromal whitening with epithelial defect (n = 3), and stromal scar (n = 3) were infrequent. None developed microbial keratitis. On multivariate logistic regression analysis, eyelid position (odds ratio, 2.93; 95% confidence interval, 1.37-6.25), and ventilation duration (odds ratio, 1.11; 95% confidence interval, 1.04-1.19) were strongly associated with the development of keratopathy after ICU admission. Keratopathy resolved in 3.6 +/- 4.5 days. CONCLUSIONS: Severe exposure keratopathy is infrequent in a protocolized ICU setting. Eyelid position and duration of ventilation are associated with exposure keratopathy.</li> <li>Address: Department of Ophthalmology, Schell hospital, Christian Medical College, Vellore, India.</li> <li>Department of Biostatistics, Christian Medical College, Vellore, India.</li> <li>Medical Intensive Care Unit, Christian Medical College, Vellore, India.</li> <li>Medical Intensive Care Unit, Christian Medical</li> <li>College, Vellore, India. Electronic address: peterjohnvictor@yahoo.com.au.</li> </ul>		
252.	Laprise C(1,)(2), Madathil SA(2,)(3), Allison P(1,)(2), Abraham P(4), Raghavendran A(4), Shahul HP(2), ThekkePurakkal AS(2), Castonguay G(2), CoutléeF(5), Schlecht NF(6), Rousseau MC(2,)(3), Franco EL(1,)(2), Nicolau B(1,)(2). No role for human papillomavirus infection in oral cancers in a region in southern India. Int J Cancer. 2015 Aug 28. doi: 10.1002/ijc.29827. [Epub ahead of print] Author information: (1)Division of Cancer Epidemiology, Department of Oncology, McGill University, Montreal, QC, Canada. (2)Division of Oral Health and Society, Faculty of Dentistry, McGill University, Montreal, QC, Canada. (3)Epidemiology and Biostatistics Unit, INRS-Institut Armand-Frappier, Laval, QC, Canada. (4)Department of Clinical Virology, Christian Medical College, Vellore, India. (5)Department of Microbiology and Infectious Diseases, Hôpital Notre-Dame DuCentre De Recherche Du Centre Hospitalier De L'université De Montréal, Montreal, QC, Canada. (6)Department of Epidemiology and Population Health, Albert Einstein College of Medicine, New York, NY. Oral cancer is a major public health issue in India with 77,000 new cases and 52,000 deaths yearly. Paan chewing, tobacco and alcohol use are strong risk factors for this cancer in India. Human papillomaviruses (HPVs) are also related to a subset of head and neck cancers (HNCs). We examined the association between oral HPV and oral cancer in a sample of Indian subjects participating in a hospital-based case-control study.	26317688	INT
	We recruited incident oral cancer cases ( $N=350$ ) and controls frequency-matched by age and sex ( $N=371$ )		
	from two main referral hospitals in Kerala, South India. Sociodemographic and behavioral data were collected by interviews. Epithelial cells were sampled using Oral CDx® brushes from the oral cancer site and the normal mucosa. Detection and genotyping of 36 HPV genotypes were done using a polymerase chain reaction protocol. Data collection procedures were performed by qualified dentists via a detailed protocol with strict quality control, including independent HPV testing in India and Canada. HPV DNA was detected in none of the cases or controls. Associations between oral cancer and risk factors usually associated with HPV infection, such as oral sex and number of lifetime sexual partners, were examined by logistic regression and were not associated with oral cancer. Lack of a role for HPV infection in this study may reflect cultural or religious		
	characteristics specific to this region in India that are not conducive to oral HPV transmission. A nationwide		

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	representative prevalence study is needed to investigate HPV prevalence variability among Indian regions.		
253.	Le Pogam C(1,)(2), Patel S(1,)(2), Gorombei P(1,)(2), Guerenne L(1,)(2), Krief P(1,)(2), Omidvar N(3), Tekin N(4), Bernasconi E(1,)(2), Sicre F(1,)(2,)(5), Schlageter MH(1,)(2,)(5), Chopin M(6), Noguera ME(5), West R(7), Abu A(8), Mathews V(8), Pla M(1,)(2), Fenaux P(1,)(2,)(5), Chomienne C(1,)(2,)(5), Padua RA(1,)(2,)(5). DNA-mediated adjuvant immunotherapy extends survival in two different mouse models of myeloid malignancies. Oncotarget. 2015 Oct 20;6(32):32494-508. doi: 10.18632/oncotarget.5572.	PMID: 26378812 WOS:000363186600032	INT
	Oncotarget. 2015 Oct 20;6(32):32494-508. doi: 10.18632/oncotarget.5572.		
	<ul> <li>Author information:</li> <li>(1)Unité Mixte de la Recherche de Santé (UMR-S), Institut Universitaire d'Hématologie, Université Paris Diderot, Paris, France. (2)Institut National de</li> <li>la Santé et de la Recherche Médicale (INSERM) Unité (U), Paris, France. (3)Haemotology Department, Cardiff University School of Medicine, Cardiff, UK. (4)Biotechnology Institute, Ankara University, Ankara, Turkey.</li> <li>(5)Hôpital Saint Louis, Assistance Publique-Hôpitaux de Paris (AP-HP), Paris, France. (6)Département d'Expérimentation Animale, Institut Universitaire d'Hématologie, University Paris Diderot, Paris, France.</li> <li>(7)Welsh Heart Research Institute, Cardiff University School of Medicine, Cardiff, UK. (8)Department of Hematology, Christian Medical College and Hospital, Vellore, India.</li> </ul>		
	We have previously shown that a specific promyelocytic leukemia-retinoic acid receptor alpha (PML-RARA) DNA vaccine combined with all-trans retinoic acid (ATRA) increases the number of long term survivors with enhanced immune responses in a mouse model of acute promyelocytic leukemia (APL). This study reports the efficacy of a non-specific DNA vaccine, pVAX14Flipper (pVAX14), in both APL and high risk myelodysplastic syndrome (HR-MDS) models. PVAX14 is comprised of novel immunogenic DNA sequences inserted into the pVAX1 therapeutic plasmid. APL mice treated with pVAX14 combined with ATRA had increased survival comparable to that obtained with a specific PML-RARA vaccine. Moreover, the survival advantage correlated with decreased PML-RARA transcript levels and increase in anti-RARA antibody production. In HR-MDS mice, pVAX14 significantly improved survival and reduced biomarkers of leukemic transformation such as phosphorylated mitogen-activated protein/extracellular signal-regulated kinase kinase (MEK) 1. In both preclinical models, pVAX14 vaccine significantly increased interferon gamma (IFNy) production, memory T-cells (memT), reduced the number of colony forming units (CFU) and increased expression of the adapter molecule signaling to NF-KB, MyD88. These results demonstrate the adjuvant properties of pVAX14 providing thus new approaches to improve clinical outcome in two different models of myeloid malignancies, which may have potential for a broader applicability in other cancers.		
254.	Lepcha A, Tyagi A, Ashish G, Augustine A, Balraj A. Audiovestibular and radiological findings in patients with migrainous vertigo. Neurology Asia. 2015;20(4):367-73. Address correspondence to: Dr. Anjali Lepcha, Professor, Dept. of Otolaryngology Unit 4, Christian Medical College, Vellore 632004, India.Tel: +91-416- 2286075 (O), Fax: +91-416-2232035/2103, Email: anjalilepcha@yahoo.com	WOS:000367386600007	NAT
255.	Lepcha, A., Chandran, R. K., Alexander, M., Agustine, A. M., Thenmozhi, K. and Balraj, A. Neurological associations in auditory neuropathy spectrum disorder: Results from a tertiary hospital in South	PMID: 26019414 PMCID:PMC4445192	NAT

	India Annals of Indian Academy of Neurology. 2015;18(2):171-6. doi: 10.4103/0972-2327.150578	WOS:000354768000008	
	AIMS: To find out the prevalence and types of neurological abnormalities associated in auditory neuropathy spectrum disorder in a large tertiary referral center. SETTINGS AND DESIGN: A prospective clinical study was conducted on all patients diagnosed with auditory neuropathy spectrum disorder in the ear, nose, and throat (ENT) and neurology departments during a 17-month period. Patients with neurological abnormalities on history and examination were further assessed by a neurologist to determine the type of disorder present. RESULTS: The frequency of auditory neuropathy spectrum disorder was 1.12%. Sixty percent were found to have neurological involvement. This included cerebral palsy in children, peripheral neuropathy (PN), spinocerebellar ataxia, hereditary motor-sensory neuropathy, spastic paresis, and ponto-bulbar palsy. Neurological lesions did not present simultaneously with hearing loss in most patients. Sixty-six percent of patients with auditory neuropathy spectrum disorder were born of consanguineous marriages. CONCLUSIONS: There is a high prevalence of neurological lesions in auditory neuropathy spectrum disorder. Address: Department of Ear, Nose and Throat, Christian Medical College and Hospital, Vellore, Tamil Nadu, India. Department of Neurology, Christian Medical College and Hospital, Vellore, Tamil Nadu, India.		
256.	<ul> <li>Department of Neurology, Christian Medical College and Hospital, Venore, Famili Nadu, India.</li> <li>Ling C(1), Wang Y(2), Lu Y(3), Wang L(4), Jayandharan GR(5), Aslanidi GV(6), Li B(6), Cheng B(7), Ma</li> <li>W(6), Lentz T(8), Ling C(9), Xiao X(10), Samulski R(8), Muzyczka N(11), Srivastava A(12).</li> <li>Enhanced transgene expression from recombinant single-stranded</li> <li>D-sequence-substituted adeno-associated virus vectors in human cell lines in vitro and in murine hepatocytes in vivo.</li> <li>J Virol. 2015 Jan 15;89(2):952-61. doi: 10.1128/JVI.02581-14. Epub 2014 Oct 29.</li> <li>Author information:</li> <li>(1)Division of Cellular and Molecular Therapy, Department of Pediatrics, University of Florida College of Medicine, Gainesville, Florida, USA Powell Gene Therapy Center, University of Florida College of Medicine, Gainesville, Florida, USA Powell Gene Therapy Center, University of Florida College of Medicine, Gainesville, Florida, USA Powell Gene Therapy Center, University of Florida, USA Powell</li> <li>Gene Therapy Center, University of Florida College of Medicine, Gainesville, Florida, USA Powell</li> <li>Gene Therapy Center, University of Florida College of Medicine, Gainesville, Florida, USA Powell</li> <li>Gene Therapy Center, University of Florida College of Medicine, Gainesville, Florida, USA Powell</li> <li>Gene Therapy Center, University of Florida College of Medicine, Gainesville, Florida, USA Neovell</li> <li>Gene Therapy Center, University of Florida College of Medicine, Gainesville, Florida, USA. (4)Division of</li> <li>Cellular and Molecular Therapy Department of Pediatrics, University of Florida College of Medicine,</li> <li>Gainesville, Florida, USA Powell Gene Therapy Center, University of Florida College of Medicine,</li> <li>Gainesville, Florida, USA Powell Gene Therapy Center, University of Florida College of Medicine,</li> <li>Gainesville, Florida, USA Powell Gene Therapy Center, University of Florida College of Medicine,</li> <li>Gainesville, Stange (Gene Therapy C</li></ul>	PMCID: PMC4300666 PMID: 25355884 WOS:000347178900006	INT

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Department of Pediatrics, University of Florida College of Medicine, Gainesville, Florida, USA Department of Traditional Chinese Medicine, Changhai Hospital, Second Military Medical University, Shanghai, China. (8)Gene Therapy Center, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, USA. (9)Department of Traditional Chinese Medicine, Changhai Hospital, Second Military Medical University, Shanghai, China Shanghai University of Traditional Chinese Medicine, Shanghai, China. (10)Gene Therapy Center, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, USA Division of Molecular Pharmaceutics, University of North Carolina School of Pharmacy, Chapel Hill, North Carolina, USA. (11)Powell Gene Therapy Center, University of Florida College of Medicine, Gainesville, Florida, USA Department of Molecular Genetics & Microbiology, University of Florida College of Medicine, Gainesville, Florida, USA Genetics Institute, University of Florida College of Medicine, Gainesville, Florida, USA. (12)Division of Cellular and Molecular Therapy, Department of Pediatrics, University of Florida College of Medicine, Gainesville, Florida, USA Department of Molecular Genetics & Microbiology, University of Florida College of Medicine, Gainesville, Florida, USA Department of Molecular Genetics & Microbiology, University of Florida College of Medicine, Gainesville, Florida, USA Department of Molecular Genetics & Microbiology, University of Florida College of Medicine, Gainesville, Florida, USA Department of Molecular Genetics & Microbiology, University of Florida College of Medicine, Gainesville, Florida, USA Shands Cancer Center, University of Florida College of Medicine, Gainesville, Florida, USA Shands Cancer Center, University of Florida College of Medicine, Gainesville, Florida, USA Shands Cancer Center, University of Florida College of Medicine, Gainesville, Florida, USA Shands Cancer Center, University of Florida College of Medicine, Gainesville, Florida, USA Shands Cancer Center, University		
We have previously reported that the removal of a 20-nucleotide sequence, termed the D sequence, from both ends of the inverted terminal repeats (ITRs) in the adeno-associated virus serotype 2 (AAV2) genome significantly impairs rescue, replication, and encapsidation of the viral genomes (X. S. Wang, S. Ponnazhagan, and A. Srivastava, J Mol Biol 250:573-580, 1995; X. S. Wang, S. Ponnazhagan, and A. Srivastava, J Virol 70:1668-1677, 1996). Here we describe that replacement of only one D sequence in either ITR restores each of these functions, but DNA strands of only single polarity are encapsidated in mature progeny virions. Since most commonly used recombinant AAV vectors contain a single-stranded DNA (ssDNA), which is transcriptionally inactive, efficient transgene expression from AAV vectors is dependent upon viral second-strand DNA synthesis. We have also identified a transcription suppressor sequence in one of the D sequences, which shares homology with the binding site for the cellular NF-kB-repressing factor (NRF). The removal of this D sequence from, and replacement with a sequence containing putative binding sites for transcription factors in, single-stranded AAV (ssAAV) vectors significantly augments transgene expression both in human cell lines in vitro and in murine hepatocytes in vivo. The development of these genome-modified ssAAV vectors has implications not only for the basic biology of AAV but also for the optimal use of these vectors in human gene therapy.IMPORTANCE: The results of the studies described here not only have provided novel insights into some of the critical steps in the life cycle of a human virus, the adeno-associated virus (AAV), that causes no known disease but have also led to the development of novel recombinant AAV vectors which are more efficient in allowing increased levels of gene expression. Thus, these studies have significant implications for the potential use of these novel AAV vectors in human gene therapy. Copyright © 2015, American Society for Microbiology. All Rig		
Livingstone RS(1), Grunnet LG(2), Thomas N(3), Eapen A(1), Antonisamy B(4), Mohan VR(5), Spurgeon R(3), Frank ID(3), Bygbjerg IC(6), Vaag A(2). Are hepatic and soleus lipid content, assessed by magnetic resonance spectroscopy, associated with low birth weight or insulin resistance in a rural Indian population of healthy young men? Diabet Med. 2015 Jul 14. doi: 10.1111/dme.12852. [Epub ahead of print]	26172248	INT
	<ul> <li>(8)Gene Therapy Center, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, USA.</li> <li>(9)Department of Traditional Chinese Medicine, Changhai Hospital, Second Military Medical University, Shanghai, China Shanghai University of Traditional Chinese Medicine, Shanghai, China. (10)Gene Therapy Center, University of North Carolina at Chapel Hill, North Carolina, USA. Division of Molecular Pharmaceutics, University of Florida College of Medicine, Gainesville, Florida, USA Department of Molecular Genetics &amp; Microbiology, University of Florida College of Medicine, Gainesville, Florida, USA Department of Polida College of Medicine, Gainesville, Florida, USA Department of Molecular Interapy, Department of Pediatrics, University of Florida College of Medicine, Gainesville, Florida, USA</li> <li>Department of Molecular Genetics &amp; Microbiology, University of Florida College of Medicine, Gainesville, Florida, USA</li> <li>Department of Molecular Genetics &amp; Microbiology, University of Florida College of Medicine, Gainesville, Florida, USA</li> <li>Department of Molecular Genetics &amp; Microbiology, University of Florida College of Medicine, Gainesville, Florida, USA</li> <li>Department of Molecular Genetics &amp; Microbiology, University of Florida College of Medicine, Gainesville, Florida, USA</li> <li>Department of Molecular Genetics &amp; Microbiology, University of Florida College of Medicine, Gainesville, Florida, USA</li> <li>Department of Molecular Genetics &amp; Microbiology, University of Florida College of Medicine, Gainesville, Florida, USA</li> <li>Department of Molecular Genetics &amp; Microbiology, University of Florida College of Medicine, Gainesville, Florida, USA</li> <li>Department of Molecular Genetics, Bardy and A.</li> <li>Sinvastava, J Mol Sol 20:573-580, 1995; X. S. Wang, S. Ponnazhagan, and A.</li> <li>Sinvastava, J Vinol 70:668-1677, 1996). Here we describe that replacement of only one D sequence in either TIR restores each of these functions, but DNA strands of only single polarity ar</li></ul>	Traditional Chinese Medicine, Changhai Hospital, Second Military Medical University, Shanghai, China.         (8)Geen Therapy Center, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, USA.         (9)Department of Traditional Chinese Medicine, Changhai Hospital, Second Military Medical University, of North Carolina School of Pharmacy. Chapel Hill, North Carolina, USA.         Pharmaceutics, University of Florida College of Medicine, Gainesville, Florida, USA.         Gene Therapy Center, University of Florida College of Medicine, Gainesville, Florida, USA.         Genetics Institute, University of Florida College of Medicine, Gainesville, Florida, USA.         Genetics Institute, University of Florida College of Medicine, Gainesville, Florida, USA.         Florida, USA Powell Gene Therapy Center, University of Florida College of Medicine, Gainesville, Florida, USA         Poinda, USA Bowell Gene Therapy Center, University of Florida College of Medicine, Gainesville, Florida, USA Shands         Cancer Center, University of Florida College of Medicine, Gainesville, Florida, USA Shands         Cancer Center, University of Florida College of Medicine, Gainesville, Florida, USA Shands         Cancer Center, University of Florida College of Medicine, Gainesville, Florida, USA Shands         Cancer Center, University of Florida College of Medicine, Cainesville, Florida, USA Shands         Cancer Center, University of Florida College of Medicine, Cainesville, Florida, USA         Ve have previously reported that the removal of a 20-nucleotide sequence, termed the D sequence, from

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Author information:       (1)Department of Radiology, Christian Medical College and Hospital, Vellore,         India. (2)Diabetes and Metabolism, Copenhagen University Hospital (Rigshospitalet), Denmark.       (3)Department of Endocrinology, Diabetes and         Metabolism, Christian Medical College and Hospital, Vellore, India. (4)Department of Biostatistics, Christian Medical College and Hospital, Vellore, India. (5)Department of Community Health, Christian Medical College and Hospital, Vellore, India. (5)Department of Community Health, Christian Medical College and Hospital, Vellore, India. (5)Department of Community Health, Christian Medical College and Hospital, Vellore, India. (5)Department of Community Health, Christian Medical College and Hospital, Vellore, India. (5)Department of Community Health, Christian Medical College and Hospital, Vellore, India. (4)Department of Community Health, Christian Medical College and Hospital, Vellore, India. (4)Department of Community Health, Christian Medical College and Hospital, Vellore, India. (5)Department of Community Health, Christian Medical College and Hospital, Vellore, India. (4)Department, Sugnature, India. (4)Department, Grand Status, Wellore, India. (5)Department of Community Health, Christian Medical College and Hospital, Vellore, India. (5)Department of Community Health, Christian Medical College and Hospital, Vellore, India. (5)Department of Community Health, Christian Medical College and Hospital, Vellore, India. (5)Department of Community Health, Christian Medical College and Hospital, Vellore, India. (5)Department of Longital Network as associated with insulin resistance in this population. METHODS: A total of 54 lean men with normal birth weight gale men with low birth weight (3)e range 18-22 years) from rural India were recruited. All the men underwent anthropometry, magnetic resonance spectroscopy, a hyperinsulinaemic-euglycaemic clamp and a dual-	
<ul> <li>258. Livingstone, R. S., Chase, D., Varghese, A., George, P. V. and George, O. K. Transition from image intensifier to flat panel detector in interventional cardiology: Impact of radiation dose J Med Phys; 2015, 40 (1): 24-8 Flat panel detector (FPD) technology in interventional cardiology is on the increase due to its varied advantages compared to the conventional image intensifier (II) systems. It is not clear whether FPD imparts lower radiation doses from II and FPD systems for coronaryangiography (CAG) and Percutaneous Transluminal Coronary Angioplasty (PTCA) performed in a tertiary referral center. Radiation doses were measured using dose area product (DAP) meter from patients who underwent CAG (n = 222) and PTCA (n = 75) performed using FPD angiography system. The DAP values from FPD were compared with earlier reported data using II systems from the same referral center where the study was conducted. The mean DAP values from FPD system for CAG and PTCA were 24.35 and 63.64 Gycm(2) and those from II system were 27.71 and 65.44 Gycm(2). Transition from II to FPD system requires stringent dose optimization strategies right from the initial period of installation. Address: Department of Radiology, Christian Medical College, Vellore, Tamil Nadu, India.</li> <li>259. Londhe V(1), Vijayaselvi R(1), Balaji V(2), Benjamin SJ(3), Sahni RD(4).</li> </ul>	NAT
<b>237.</b>   Longine $v(1)$ , $v_{1}ayaseivi (1)$ , balaji $v(2)$ , benjanini $SJ(3)$ , Salini ( $D(4)$ ).   PMID: 203931/0	INAT

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	Carbapenem Resistant Organisms: An Unusual Aetiology for Puerperal Sepsis.		
	J Clin Diagn Res. 2015 Jul;9(7):QD01-2. doi: 10.7860/JCDR/2015/13577.6148. Epub 2015 Jul 1.		
	Author information: (1)Assistant Professor, Department of Obstetrics and Gynaecology, Christian Medical College, Vellore, Tamil Nadu, India . (2)Professor, Department of Microbiology, Christian Medical College, Vellore, Tamil Nadu, India . (3)Associate Professor, Department of Obstetrics and Gynaecology, Christian Medical College, Vellore, Tamil Nadu, India . (4)Associate Professor, Department of Microbiology, Christian Medical College, Vellore, Tamil Nadu, India .		
	Puerperal infection is a common complication of labour. It occurs universally and is usually responsive to first line antibiotics. However, resistance to first line antibiotics and even second line antibiotics is becoming more wide spread. We report a case of puerperal infection caused by carbapenem resistant organisms leading to prolonged fever and hospitalisation. A 28-year-old primigravida, following caesarean section done elsewhere, for elevated blood pressure presented with high grade fever. The patient was treated with antibiotic to which she failed to respond. She underwent laparotomy twice and only improved after Colistin was combined with Meropenam, based on urine and pus culture reports.		
260.	Low N(1), Bavdekar A, Jeyaseelan L, Hirve S, Ramanathan K, Andrews NJ, Shaikh N,Jadi RS, Rajagopal A, Brown KE, Brown D, Fink JB, John O, Scott P, Riveros-Balta AX, Greco M, Dhere R, Kulkarni PS, Henao Restrepo AM. A randomized, controlled trial of an aerosolized vaccine against measles. N Engl J Med. 2015 Apr 16;372(16):1519-29. doi: 10.1056/NEJMoa1407417.	PMID: 25875257 WOS:000352856500007	INT
	Author information: (1)From the Institute of Social and Preventive Medicine, University of Bern, Bern (N.L., P.S.), and the World Health Organization (WHO), Geneva (A.X.RB., A.M.H.R.) - both in Switzerland; the Department of Pediatrics, King Edward Memorial Hospital Research Centre (A.B.), the National Institute of Virology (N.S., R.S.J.), the Serum Institute of India (R.D., P.S.K.), and Shirdi Sai Baba Hospital (S.H.), Pune, the Department of Biostatistics, Christian Medical College, Vellore (L.J., K.R., A.R.), and the WHO Regional Office for South-East Asia, New Delhi (O.J.) - all in India; the Statistics Unit (N.J.A.) and Virus Reference Department (K.E.B., D.B.), Public Health England, London; Aerogen, Galway, Ireland (J.B.F.); and Sainte- Foy-lès-Lyon, France (M.G.).		
	Comment in Child Care Health Dev. 2015 Jul;41(4):638-9. BMJ. 2015;350:h2006.		
	BACKGROUND: Aerosolized vaccine can be used as a needle-free method of immunization against measles, a disease that remains a major cause of illness and death. Data on the immunogenicity of aerosolized vaccine against measles in children are inconsistent. METHODS: We conducted an open-label noninferiority trial involving children 9.0 to 11.9 months of age in India who were eligible to receive a first dose of measles		

	vaccine. Children were randomly assigned to receive a single dose of vaccine by means of either aerosol inhalation or a subcutaneous injection. The primary end points were seropositivity for antibodies against measles and adverse events 91 days after vaccination. The noninferiority margin was 5 percentage points. RESULTS: A total of 1001 children were assigned to receive aerosolized vaccine, and 1003 children were assigned to receive subcutaneous vaccine; 1956 of all the children (97.6%) were followed to day 91, but outcome data were missing for 331 children because of thawed specimens. In the per-protocol population, data on 1560 of 2004 children (77.8%) could be evaluated. At day 91, a total of 662 of 775 children (85.4%; 95% confidence interval [CI], 82.5 to 88.0) in the aerosol group, as compared with 743 of 785 children (94.6%; 95% CI, 92.7 to 96.1) in the subcutaneous group, were seropositive, a difference of -9.2 percentage points (95% CI, -12.2 to -6.3). Findings were similar in the full-analysis set (673 of 788 children in the aerosol group [85.4%] and 754 of 796 children in the subcutaneous group [94.7%] were seropositive at day 91, a difference of -9.3 percentage points [95% CI, -12.3 to -6.4]) and after multiple imputation of missing results. No serious adverse events were attributable to measles vaccination. Adverse-event profiles were similar in the two groups. CONCLUSIONS: Aerosolized vaccine against measles was immunogenic, but, at the prespecified margin, the aerosolized vaccine was inferior to the subcutaneous vaccine with respect to the rate of seropositivity. (Funded by the Bill and Melinda Gates Foundation; Measles Aerosol Vaccine Project Clinical Trials Registry-India number, CTRI/2009/091/000673.).		
261.	<ul> <li>Madhuri V(1,)(2), Santhanam M(2), Sugumar LK(2), Rajagopal K(2), Chilbule SK(1).</li> <li>Classical and atypical Fibrodysplasia Ossificans Progressiva in India.</li> <li>Ann Hum Genet. 2015 Jul;79(4):245-52. doi: 10.1111/ahg.12112. Epub 2015 Jun 9.</li> <li>Author information: <ul> <li>(1)Paediatric Orthopaedics Unit, Department of Orthopaedics, Christian Medical College, Vellore, Tamil Nadu, 632004, India.</li> <li>(2)Centre for Stem Cell Research, Christian Medical College, Vellore, Tamil Nadu, 632004, India.</li> </ul> </li> <li>Fibrodysplasia Ossificans Progressiva (FOP) is a rare debilitating disorder characterized by congenital deformity of the great toes from infancy and postnatal heterotopic ossification. Activating mutations in the activin A receptor type 1 (ACVR1) gene are responsible for the disease. The most common allelic variant leading to FOP is c.617 G&gt;A; p.R206H, however, other alleles have been reported with atypical phenotypes. We report 14 cases presenting to a referral institution in South India over a 3-year period. The patients were clinically diagnosed based on foot abnormality or abnormal ectopic ossification and were screened for ACVR1. The genetic analysis of ACVR1 identified the recurrent allelic variant in 12 of 14 patients. One of the remaining patients had a previously reported allele c.1067G&gt;A; p.G356D in the 9th exon and the second allele c.983G&gt;A; p.G328E in the 8th exon of ACVR1. The most common recurrent allele c.617 G&gt;A; p.R206H is also the most common in Indian patients with FOP.</li> </ul>	PMID: 26058333 WOS:000356492000003	INT
262.	Madhusudhan, V. L. Efficacy of 1% acetic acid in the treatment of chronic wounds infected with Pseudomonas aeruginosa: prospective randomised controlled clinical trial Int Wound J; 2015, Chronic wounds are those wounds that are persistent and do not respond to any sort of treatment. The concept of using topical antiseptics on open wounds is to prevent and treat infections. They also help to shorten the time taken to heal the wounds. The use of topical agents on wounds to prevent infection is a minimal ability to develop resistance to the microorganisms. Pseudomonas aeruginosa is a Gram-negative opportunistic pathogen with innate resistance to many antibiotics. In places that are	PMID: 25851059	INT

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	economically backward, these problems get compounded by the inability of patients to afford newer expensive drugs. Topically applied dilute acetic acid, which is cheap and easily available, has been found to be effective in such chronic wounds. In the present study, an attempt has been made to use 1% acetic acid as the sole antimicrobial agent for the treatment of pseudomonal wound infections. A control limb was used in which the wounds were treated with normal saline. Our objective was to evaluate the efficacy of acetic acid in low concentration of 1% in chronic wounds infected with P. aeruginosa. This was a prospective study conducted over a period of 6 months. INCLUSION CRITERIA: All patients with chronic wounds infected with P. aeruginosa. EXCLUSION CRITERIA: Wounds due to massive burns, suspected malignancy, immunocompromised individuals and individuals with sepsis. A total of 32 patients enrolled in the study. Subjects were randomised equally to the 1% acetic acid group and saline dressing group. None of the patients received any systemic antibiotics during the study period and received twice daily dressings. The endpoint of the treatment was wounds free of P. aeruginosa. The duration of treatment required to eliminate the Pseudomonas from the wounds in the acetic acid group was on an average 7 days less than that required by the saline group. P value was <0.001. In the 1% acetic acid group irrespective of the sensitivity of the organism to antibiotics, Pseudomonas organisms were eliminated within 11.5 days and multidrug-resistant organisms were eliminated by 15.5 days. 1% acetic acid is a simple, safe and effective topical antiseptic that can be used in the elimination of P. aeruginosa from chronic infected wounds. Address: Department of Plastic Surgery, Christian Medical College, Vellore, India.		
263.	Madsen, C., Mogensen, P., Thomas, N., Christensen, D. L., Bygbjerg, I. C., Mohan, V., Inbakumari, M., Nadig, S. V., Alex, R., Geetanjali, F. S., Westgate, K., Brage, S., Vaag, A. and Grunnet, L. G. Effects of an outdoor bicycle-based intervention in healthy rural Indian men with normal and low birth weight J Dev Orig Health Dis; 2015, 6 (1): 27-37 Physical inactivity and low birth weight (LBW) may lead to an increased risk for developing type 2 diabetes. The extent to which LBW individuals may benefit from physical exercise training when compared with those with normal birth weight (NBW) controls is uncertain. We assessed the impact of an outdoor exercise intervention on body composition, insulin secretion and action in young men born with LBW and NBW in rural India. A total of 61 LBW and 56 NBW healthy young men were recruited into the study. The individuals were instructed to perform outdoor bicycle exercise training for 45 min every day. Fasting blood samples, intravenous glucose tolerance tests and bioimpedance body composition assessment were carried out. Physical activity was measured using combined accelerometry and heart rate monitoring during the first and the last week of the intervention. Following the exercise intervention, the LBW group displayed an increase in physical fitness [55.0 ml (02)/kg min (52.0-58.0)-57.5 ml (02)/kg min (54.4-60.5)] level and total fat-free mass [10.9% (8.0-13.4)-11.4% (8.0-14.6)], as well as a corresponding decline in the ratio of total fat mass/fat-free mass. In contrast, an increase in total fat percentage as well as total fat mass was observed in the NBW group. After intervention, fasting plasma insulin levels, homoeostasis model assessments (HOMA) of insulin resistance (HOMA-IR) and insulin secretion (HOMA-IS), improved to the same extent in both the groups. In summary, young men born with LBW in rural India benefit metabolically from exercise training to an extent comparable with NBW controls. Address: 1Department of Diabetes and Metabolism,Corpenhagen University Ho	PMID: 25514893 WOS:000348699300005	INT

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	6MRC Epidemiology Unit,University of Cambridge,Cambridge,United Kingdom.		
264.	<ul> <li>Mahajan RK(1), Peter JV(1), John G(1), Graham PL(2), Rao SV(3), Pinsky MR(4).</li> <li>Patterns of central venous oxygen saturation, lactate and veno-arterial CO2</li> <li>difference in patients with septic shock.</li> <li>Indian J Crit Care Med. 2015 Oct;19(10):580-6. doi: 10.4103/0972-5229.167035.</li> <li>(1)Medical Intensive Care Unit, Division of Critical Care Medicine, Christian</li> <li>Medical College, Vellore, Tamil Nadu, India. (2)Department of Statistics, Macquarie University, Sydney, Australia. (3)Surgical Intensive Care Unit,</li> <li>Division of Critical Care Medicine, Christian Medical College, Vellore, Tamil</li> <li>Nadu, India. (4)Department of Critical Care Medicine, University of Pittsburgh,</li> <li>Pittsburgh, Pennsylvania, USA.</li> <li>BACKGROUND AND AIMS: Tissue hypoperfusion is reflected by metabolic parameters such as lactate, central venous oxygen saturation (ScvO2) and the veno-arterial CO2 (vaCO2) difference. We studied the relation of these parameters over time and with outcome in patients with severe septic shock.</li> <li>MATERIALS AND METHODS: In this single-center, prospective observational cohort study, adult patients (≥18 years) with circulatory shock were included.</li> <li>Echocardiography and simultaneous arterial and venous blood gases were done on enrolment (0 h) and at 24, 48 and 72 h. The partial pressure of CO2, lactate and ScvO2 were recorded from the central venous blood gas samples. RESULTS: Of the 104 patients with circulatory shock, Year gatient (SOFA) score of 11.0 ± 3.4 were included. 71 patients (W9.9%) were ventilated (11.4 ± 12.3 ventilator-free days). The duration of hospitalization was 16.6 ± 12.8 days and hospital mortality 50.6%. Lactate significantly decreased over time with a greater decrement in survivors than nonsurvivors (-0.35 vs0.10, P &lt; 0.001). For every l/min increase in cardiac output, vaCO2 decreased by 0.34 mmHg (P = 0.006). There was no association between ScvO2 and mortality (P = 0.930). 0 h SOFA and vaCO2 ≤6 mmHg were strongl</li></ul>	PMID: 26628822	NAT

265.	Mahesh, D. M., Jebasingh, F. K., Baruah, M. P. and Thomas, N. Cretinism presenting as a pseudotumour BMJ Case Rep; 2015, 2015 A 43-year-old man from a remote part of India (over 1800 km from our institution), presented with a headache of 3 years duration. He was of short stature, had delayed puberty and was mentally retarded. On evaluation he was detected to have primary hypothyroidism with markedly elevated thyroid-stimulating hormone titres. A CT of the brain revealed a large sellar mass with suprasellar extension into the third ventricle causing obstructive hydrocephalus. Surgical intervention was deferred due to absence of visual impairment and the presence of gross hypothyroidism. The clinical diagnosis of congenital hypothyroidism was confirmed by the absence of radioiodine uptake in the thyroid bed. With thyroid hormone replacement therapy, the 'tumour' underwent significant reduction in size with the resolution of hydrocephalus thereby favouring a potential pituitary pseudotumour. This was an unusual situation of a giant pituitary pseudotumour detected in an adult with untreated congenital hypothyroidism. Address: Department of Endocrinology, Diabetes and Metabolism, Christian Medical College and Hospital, Vellore, Tamil Nadu, India. Department of Endocrinology, Excelcare Hospitals, Guwahati, Assam, India.	PMID: 25576505	INT
266.	Maheswaran, S., Rupa, V., Ebenezer, J., Manoharan, A. and Irodi, A. Relative etiological importance of adenoid hypertrophy versus sinusitis in children with persistent rhinorrhoea Indian J Otolaryngol Head Neck Surg; 2015, 67 (1): 34-8 Persistent rhinorrhoea is a common, yet often neglected, problem among Indian children. This study was designed to evaluate the relative etiological importance of adenoid hypertrophy versus sinusitis in children with persistent rhinorrhea. Additionally, the association between S. pneumoniae colonization and adenoid hypertrophy was studied. Children aged 1-14 years with persistent rhinorrhea underwent clinical evaluation, rigid nasal endoscopy and xrays of the nasopharynx and paranasal sinuses to ascertain the presence of adenoid hypertrophy and sinusitis using standard criteria. Nasopharyngeal swabbing to ascertain the presence of nasopharyngeal colonization with S. pneumoniae was also performed. Adenoid hypertrophy was more consistently associated with persistent rhinorrhea than sinusitis ( $p < 0.0001$ ). Coincident adenoid hypertrophy and sinusitis occurred in 57 %. S. pneumoniae was cultured in only 29 % of children. Up to 47 % of patients had features of nasal allergy. There was no association between S. pneumoniae colonization and adenoid hypertrophy ( $p = 0.1$ ). Adenoid hypertrophy is an important cause of persistent rhinorrhea in children. Measures to evaluate for and treat adenoid hypertrophy should be instituted early to alleviate the problem of persistent rhinorrhoea in children. S. pneumoniae colonization of the nasopharynx is not a major etiological factor for persistent rhinorrhoea in these children. Nasal allergy may be a cause of adenoid hypertrophy in roughly half the children. Address: Departments of ENT, Christian Medical College Hospital, Vellore, 632004 India. Infectious Disease and Medicine I Department, Christian Medical College Hospital, Vellore, India. Departments of Radiology, Christian Medical College Hospital, Vellore, India.	PMID: 25621229 4298585: 4298585	NAT
267.	Maji A(1), Misra R(1), Kumar Mondal A(1,)(2), Kumar D(1), Bajaj D(3), SinghalA(1), Arora G(1), Bhaduri A(1), Sajid A(1), Bhatia S(1), Singh S(4), Singh H(4), Rao V(1), Dash D(1), Baby Shalini E(5), Sarojini Michael J(5), Chaudhary A(6),Gokhale RS(1), Singh Y(1). Expression profiling of lymph nodes in tuberculosis patients reveal inflammatory milieu at site of infection Sci Rep. 2015 Oct 15;5:15214. doi: 10.1038/srep15214.	PMID: 26469538 WOS:000362804800001	INT

	Author information: (1)CSIR-Institute of Genomics &Integrative Biology, Mall Road, Delhi, India. (2)Academy of Scientific &Innovative Research (AcSIR), CSIR-IGIB, Delhi, India. (3)Department of Zoology, University of Delhi, Delhi, India. (4)Hindu Rao Hospital, Malka Ganj, Delhi, India. (5)Christian Medical College, Vellore, Tamil Nadu, India. (6)Rajan Babu Institute of Pulmonary Medicine and Tuberculosis, Delhi, India.		
	Extrapulmonary manifestations constitute 15 to 20% of tuberculosis cases, with lymph node tuberculosis (LNTB) as the most common form of infection. However, diagnosis and treatment advances are hindered by lack of understanding of LNTB biology. To identify host response, Mycobacterium tuberculosis infected lymph nodes from LNTB patients were studied by means of transcriptomics and quantitative proteomics analyses. The selected targets obtained by comparative analyses were validated by quantitative PCR and immunohistochemistry. This approach provided expression data for 8,728 transcripts and 102 proteins, differentially regulated in the infected human lymph node. Enhanced inflammation with upregulation of T-helper1-related genes, combined with marked dysregulation of matrix metalloproteinases, indicates tissue damage due to high immunoactivity at infected niche. This expression signature was accompanied by significant upregulation of an immunoregulatory gene, leukotriene A4 hydrolase, at both transcript and protein levels. Comparative transcriptional analyses revealed LNTB-specific perturbations. In contrast to pulmonary TB-associated increase in lipid metabolism, genes involved in fatty-acid metabolism were found to be downregulated in LNTB suggesting differential lipid metabolic signature. This study investigates the tissue molecular signature of LNTB patients for the first time and presents findings that indicate the possible mechanism of disease pathology through dysregulation of inflammatory and tissue-repair processes.		
268.	Makharia GK(1), Ghoshal UC(2), Ramakrishna BS(3), Agnihotri A(1), Ahuja V(1),Chowdhury SD(4), Gupta SD(5), Mechenro J(3), Mishra A(1), Mishra A(2), PathakMK(1), Pandey RM(6), Sharma R(7), Sharma SK(8). Intermittent Directly Observed Therapy for Abdominal Tuberculosis: A Multicenter Randomized Controlled Trial Comparing 6 Months Versus 9 Months of Therapy.	PMID: 25969531 WOS:000361468700012	INT
	Clin Infect Dis. 2015 Sep 1;61(5):750-7. doi: 10.1093/cid/civ376. Epub 2015 May12.		
	<ul> <li>Author information:</li> <li>(1)Department of Gastroenterology and Human Nutrition, All India Institute of</li> <li>Medical Sciences, New Delhi. (2)Department of Gastroenterology, Sanjay Gandhi Postgraduate Institute of</li> <li>Medical Sciences, Lucknow. (3)Department of Gastroenterology, SRM Institute of Medical Sciences, Chennai</li> <li>Department of Gastroenterology, Christian Medical College, Vellore. (4)Department of Gastroenterology,</li> <li>Christian Medical College, Vellore. (5)Department of Pathology. (6)Department of Biostatistics.</li> <li>(7)Department of Radiodiagnosis. (8)Department ofMedicine, All India Institute of Medical Sciences, New</li> <li>Delhi, India.</li> </ul>		
	BACKGROUND: The duration of treatment of gastrointestinal tuberculosis continues to be a matter of debate. The World Health Organization advocates intermittent directly observed short-course therapy (DOTs), but there is a lack of data of its efficacy in abdominal tuberculosis. We therefore conducted a multicenter randomized controlled trial to compare 6 months and 9 months of antituberculosis therapy using DOTs. METHODS: One hundred ninety-seven patients with abdominal tuberculosis (gastrointestinal, 154;		

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antituberculosis therapy using intermic completion of treatment to assess rec clinical response, partial response, an the end of 1 year of follow-up). RESU groups. There was no difference betwe response rate on per-protocol analysis 75.8%; P = .89). Only 1 patient in the of disease. Side effects occurred in 21 groups, respectively. CONCLUSIONS: for either 6 months or 9 months in eith	mized to receive 6 months (n = 104) or 9 months (n = 93) of ittent directly observed therapy. Patients were followed up 1 year after currence. Patients were evaluated for primary endpoint (complete d no response) and secondary endpoint (recurrence of the disease at LTS: Baseline characteristics were similar between the 2 randomized even the 6-month group and 9-month group in the complete clinical s (91.5% vs 90.8%; P = .88) or intent-to-treat analysis (75% vs e 9-month group and no patients in the 6-month group had recurrence L (21.3%) and 16 (18.2%) patients in the 6-month and 9-month There was no difference in efficacy of antituberculosis therapy delivere ther gastrointestinal or peritoneal tuberculosis, confirming the efficacy apy.CLINICAL TRIALS REGISTRATION: NCT01124929.		
Int J Soc Psychiatry; 2015, 61 (2): 18 OBJECTIVE: This study attempted to o living in Vellore, Tamil Nadu, India. M among co-residents using the Self-Re using the 10/66 Dementia Research G also collected. Logistic regression was 73 (9.0%) had significant psychologic poorer, illiterate, currently employed neuropsychiatric symptoms and great morbidity among co-residents. CONCI psychological morbidity, which needs Address: Specialist Mental Health Ser	examine psychological morbidity among co-residents of older people ETHOD: This cross-sectional study evaluated psychological morbidity porting Questionnaire and psychiatric morbidity among older people Group's population-based studies protocol. Socio-demographic data wer a used for multivariate analysis. RESULTS: Of 807 residents evaluated, cal morbidity. Such morbidity was associated with being older, female, and being a spouse of the older person. A diagnosis of depression, cer disability in older people were also associated with psychological LUSION: Co-residents living with older people have significant to be recognised and treated. vices for Older People, Penrith, NSW, Australia. Older People, Penrith, NSW, Australia	PMID: 24948614	INT
Intrahepatic Porto-Systemic Shunt (T. J Clin Exp Hepatol. 2015 Sep;5(3):25 Department of Radiology, Christian M 632004, India. (2)Department of Hep Portal vein thrombosis, once consider intrahepatic porto-systemic shunt (TI and technical success in a patient with	ger a Contraindication for Transjugular IPS) Insertion. 9-61. doi: 10.1016/j.jceh.2014.08.008. Epub2014 Sep 22.	PMID: 26628844	NAT
	s V(1), Chiramel GK(1), Irodi A(1), GnanamuthuBR(2). terial pulmonary malinosculation.	PMID: 26288517 PMC4531447,	NAT

Indian 1 Radiol Imaging. 2015 Jul-Sep;25(3):239-43. doi: 10.4103/0971-3026.161439.       Image: Section 2015				
Endovascular repair of latrogenic subclavian artery pseudo-aneurysm.       Saudi J Kidney Dis Transpl. 2015 Sep;26(5):1023-5. doi: 10.4103/1319-2442.164598.         Author information:       (1)Department of Radiology, Christian Medical College, Tamil Nadu, Vellore, Inndia.       PMID: 25865972         273.       Mani, M., Ramalingam, V. V., Lionel, J., Christina, S. A., Sachithanandham, J., Peedicayil, A. and Kannangai, R.       PMID: 25865972         Emergence of HIV-1 drug-resistant variants in women following antiretroviral prophylaxis for the prevention of mother to child transmission       Inndia J Med Microbiol; 2015, 53 (2): 225-30         PURPOSE: Emergence of drug resistance following HIV prophylaxis has an important impact on ART program. OBJECTIVE: To investigate the emergence of drug resistance following HIV-1 infected pregnant women. MATERIALS AND METHODS: Fifty-three HIV-1 infected pregnant women who had received 4-12 weeks of antenatal A2T followed by Nevirapine during delivery and Combrivir [AZT + 3TC] for 1 week postpartum (group-1, n = 48) or who come at the time of delivery and received Neurispine followed by Combinir for 1 week (group-2, n = 5) were recruited. Samples were collected prive to the start of the prophylaxis and 5-8 weeks postpartum. In addition, a third sample was collected between 26-65 weeks postpartum. To or (2%) woman from group-1 showed a mutation after 6-8 weeks of prophylaxis. Among the samples collected between 26-65 weeks postpartum, 3/7 (43%) showed mutation and all these women belong to group-1. Women belonging to group-2 idnir show with ART prophylaxis, our data showed frequency of mutations after 6-8 weeks of prophylaxis. CMOLUSION: In contrast to the available data among pregnature mort on following prophylaxis, our data showed reduced frequency of mutations for theses worthowed		<ul> <li>10.4103/0971-3026.161439.</li> <li>Author information: <ul> <li>(1)Department of Radiology, Christian Medical College, Vellore, Tamil Nadu,</li> <li>India. (2)Department of Cardiothoracic Surgery, Christian Medical College,</li> <li>Vellore, Tamil Nadu, India.</li> </ul> </li> <li>We report the endovascular management of a series of four cases of isolated systemic supply to normal lung or isolated arterial pulmonary malinosculation of the left lung. In these cases, the basal segments of the left lung lacked normal pulmonary arterial supply and instead received systemic arterial blood from the descending thoracic aorta. The relevant anatomy and literature are also revieed.</li> </ul>		
<ul> <li>273. Mani, M., Ramalingam, V. V., Lionel, J., Christina, S. A., Sachithanandham, J., Peedicayil, A. and Kannangai, R.</li> <li>Emergence of HIV-1 drug-resistant variants in women following antiretroviral prophylaxis for the prevention of mother to child transmission</li> <li>Indian J Med Microbiol; 2015, 33 (2): 225-30</li> <li>PURPOSE: Emergence of drug resistance following HIV prophylaxis has an important impact on ART program. OBJECTIVE: To investigate the emergence of drug resistance in HIV-1 infected pregnant women. MATERIALS AND METHODS: Fifty-three HIV-1 infected pregnant women who had received 4-12 weeks of antenatal AZT followed by Nevirapine during delivery and combivir [ZT + 3TC] for 1 week postpartum (group-1, n = 48) or who come at the time of delivery and received Nevirapine followed by Combivir for 1 week (group-2, n = 5) were recruited. Samples was collected periven 26-65 weeks postpartum from 7 women. Amplification of HIV-1 pol gene and drug resistance analysis was done. RESULT: two (3.8%) women in group-1 showed transmitted drug resistance and they continued to show this even at 6 weeks postpartum. One (2%) woman from group-1 showed a mutation after 6-8 weeks of prophylaxis. CNCLUSION: In contrast to the available data among pregnant women with ART prophylaxis, our data showed reduced frequency of mutations following 5-8 weeks of postpartum but an emergence of mutation later (26-65 weeks). The addition of Combivir with the single dose Nevirapine during delivery and the early stage of the disease with higher CD4 counts could be the reasons for this. Address: Department of Clinical Virology, Christian Medical College, Vellore, Tamil Nadu, India.</li> <li>274. Manian KV(1,)(2), Aalam SM(1), Bharathan SP(1,)(2), Srivastava A(1,)(2),</li> <li>Velayudhan SR(1,)(2).</li> </ul>	272.	Endovascular repair of iatrogenic subclavian artery pseudo-aneurysm. Saudi J Kidney Dis Transpl. 2015 Sep;26(5):1023-5. doi: 10.4103/1319-2442.164598. Author information: (1)Department of Radiology, Christian Medical College, Tamil Nadu, Vellore,	26354585	INT
Velayudhan SR(1,)(2). WOS:000366311300003		Mani, M., Ramalingam, V. V., Lionel, J., Christina, S. A., Sachithanandham, J., Peedicayil, A. and Kannangai, R. Emergence of HIV-1 drug-resistant variants in women following antiretroviral prophylaxis for the prevention of mother to child transmission Indian J Med Microbiol; 2015, 33 (2): 225-30 PURPOSE: Emergence of drug resistance following HIV prophylaxis has an important impact on ART program. OBJECTIVE: To investigate the emergence of drug resistance in HIV-1 infected pregnant women. MATERIALS AND METHODS: Fifty-three HIV-1 infected pregnant women who had received 4-12 weeks of antenatal AZT followed by Nevirapine during delivery and Combivir [AZT + 3TC] for 1 week postpartum (group-1, n = 48) or who come at the time of delivery and received Nevirapine followed by Combivir for 1 week (group-2, n = 5) were recruited. Samples were collected prior to the start of the prophylaxis and 5-8 weeks postpartum. In addition, a third sample was collected between 26-65 weeks postpartum from 7 women. Amplification of HIV- 1 pol gene and drug resistance analysis was done. RESULT: Two (3.8%) women in group-1 showed transmitted drug resistance and they continued to show this even at 6 weeks postpartum. One (2%) woman from group-1 showed a mutation after 6-8 weeks of prophylaxis. Among the samples collected between 26- 65 weeks postpartum, 3/7 (43%) showed mutations and all these women belong to group-1. Women belonging to group-2 didn't show mutation prior to or following prophylaxis. CONCLUSION: In contrast to the available data among pregnant women with ART prophylaxis, our data showed reduced frequency of mutations following 5-8 weeks of postpartum but an emergence of mutation later (26-65 weeks). The addition of Combivir with the single dose Nevirapine during delivery and the early stage of the disease with higher CD4 counts could be the reasons for this. Address: Department of Clinical Virology, Christian Medical College, Vellore, Tamil Nadu, India.	WOS:000370843400005	
	274.	Velayudhan SR(1,)(2).		INT

	Cell Reprogram. 2015 Dec;17(6):427-40. doi: 10.1089/cell.2015.0013. Epub 2015 Nov12.		
	(1)1 Centre for Stem Cell Research, Christian Medical College, Vellore, Tamil Nadu, India. (2)2 Department of Haematology, Christian Medical College, Vellore, Tamil Nadu, India.		
	Reprogramming of somatic cells to generate induced pluripotent stem cells (iPSCs) has considerable latency and generates epigenetically distinct partially and fully reprogrammed clones. To understand the molecular basis of reprogramming and to distinguish the partially reprogrammed iPSC clones (pre-iPSCs), we analyzed several of these clones for their molecular signatures. Using a combination of markers that are expressed at different stages of reprogramming, we found that the partially reprogrammed stable clones have significant morphological and molecular heterogeneity in their response to transition to the fully pluripotent state. The pre-iPSCs had significant levels of OCT4 expression but exhibited variable levels of mesenchymal-to-epithelial transition. These novel molecular signatures that we identified would help in using these cells to understand the molecular mechanisms in the late of stages of reprogramming. Although morphologically similar mouse iPSC clones showed significant heterogeneity, the human iPSC clones isolated initially on the basis of morphology were highly homogeneous with respect to the levels of pluripotency.		
275.	Manuel, D. A., Kumar, P. and Jose, J. Incidentally detected large neonatal ductus arteriosus aneurysm	PMID: 25979874	INT
	Asian Cardiovasc Thorac Ann; 2015,		
	Address: Department of Cardiology, Christian Medical College, Vellore, Tamil Nadu, India devi manny@redifmail.com.		
	Department of Cardiology, Christian Medical College, Vellore, Tamil Nadu, India.		
276.	Manvizhi, S., Kumar, A., Shanthi, F. M. and Ernest, K. Inhibitory effect of curcumin on the contractility of isolated caprine detrusor muscle Indian Journal of Pharmaceutical Sciences. 2015 Mar-Apr; 77(2): 222-6 Curcumin is a naturally occurring compound which has been used in traditional medicine in India for a long time. This study investigated the ability of curcumin to inhibit the contractility of isolated caprine (goat) detrusor muscle. The ability of three concentrations of curcumin (30, 100 and 300 microM) to inhibit the 100 microM acetylcholine-induced contractility of the isolated caprine urinary bladder detrusor muscle was investigated. The effect of raising the concentration of acetylcholine from 100, 200 and 400 microM to overcome the curcumin-induced inhibition of detrusor contractility and the effects of the reversal agents tetraethylammonium, a potassium channel blocker (100 microM), glibenclamide, an ATP-sensitive potassium channel blocker (10 microM), and propranolol, a beta adrenergic receptor blocker (1 microM), on the inhibitory effect of detrusor contractility of the isolated detrusor muscle which was statistically significant at all three concentrations of curcumin used. This inhibition was partially overcome by raising the concentration of ACh to 200 and 400 microM. The inhibitory effect of 100 microM curcumin, but not that of 300 microM curcumin. Propranolol reversed the inhibitory effect of 100 microM curcumin but not that of 300 microM curcumin. These results suggest that curcumin inhibited the contractions of the isolated detrusor	PMID: 26009657 PMCID: PMC4442473 WOS:000354415200015	NAT

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	muscle. The results further suggest that the inhibitory effect is mediated by various mechanisms: stimulation of beta adrenergic receptors; an anticholinergic effect; and the opening of ATP-sensitive potassium channels. Address: Department of Pharmacology and Clinical Pharmacology, Christian Medical College, Vellore-632 002, India.		
277.	Maragh S(1), Veltri RW(2), Lund SP(3), Mangold L(2), Isharwal S(2), Christudass CS(4), Partin AW(2), Humphreys EB(2), Sorbara L(5), Srivastava S(5), Wagner PD(5). Evaluation of two mitochondrial DNA biomarkers for prostate cancer detection. Cancer Biomark. 2015 Nov 24;15(6):763-73. doi: 10.3233/CBM-150518.	PMID: 26406418 WOS:000367802400006	INT
	Author information: (1)Biosystems and Biomaterials Division, National Institute of Standards and Technology, Gaithersburg, MD, USA. (2)Department of Urology, Brady Urological Institute, Johns Hopkins University School of Medicine, Baltimore, MD, USA. (3)Statistical Engineering Division, National Institute of Standards and Technology, Gaithersburg, MD, USA. (4)Department of Neurological Sciences, Christian Medical College, Vellore, Tamilnadu, India. (5)Division of Cancer Prevention, National Cancer Institute, Rockville, MD, USA.		
	BACKGROUND: A 3.4kb deletion (3.4kb $\Delta$ ) in mitochondrial DNA (mtDNA) found in histologically normal prostate biopsy specimens has been reported to be a biomarker for the increased probability of prostate cancer. Increased mtDNA copy number is also reported as associated with cancer. OBJECTIVE: Independent evaluation of these two potential prostate cancer biomarkers using formalin-fixed paraffin-embedded (FFPE) prostate tissue and matched urine and serum from a high risk cohort of men with and without prostate cancer. METHODS: Biomarker levels were detected via qPCR. RESULTS: Both 3.4kb $\Delta$ and mtDNA levels were significantly higher in cancer patient FFPE cores (p= 0.045 and p= 0.070 respectively at > 90% confidence).		
	Urine from cancer patients contained significantly higher levels of mtDNA ( $p$ = 0.006, 64.3% sensitivity, 86.7% specificity). Combining the 3.4kb $\Delta$ and mtDNA gave better performance of detecting prostate cancer than either biomarker alone (FFPE 73.7% sensitivity, 65% specificity; urine 64.3% sensitivity, 100% specificity). In serum, there was no difference for any of the biomarkers. CONCLUSIONS: This is the first report on detecting the 3.4kb $\Delta$ in urine and evaluating mtDNA levels as a prostate cancer biomarker. A confirmation study with increased sample size and possibly with additional biomarkers would need to be conducted to corroborate and extend these observations.		
278.	Mariappan R(1), Harshit CR, Prasanna RG. Novel Method of Identifying Intraoperative Cuff Leak and its Treatment While Monitoring Cuff Pressure. J Neurosurg Anesthesiol. 2015 Oct;27(4):349-250. doi: 10.1097/ANA.000000000000151	PMID: 25514495 WOS:000369886500014	INT
	Author information: (1)Christian Medical College, Vellore Tamil Nadu, India.		
279.	Mariappan R(1), Singh G, Koshy MS. The Effect of Increased Intracranial Pressure on Pulmonary Compliance in a Neonate.	PMID: 26649769	INT

	J Neurosurg Anesthesiol. 2015 Dec 8 [Epub ahead of print]		
	(1)Department of Anesthesia, Christian Medical College, Vellore, Tamil Nadu India.		
280.	Mariappan, R., Venkatraghavan, L., Vertanian, A., Agnihotri, S., Cynthia, S., Reyhani, S., Tung, T., Khan, O. H. and Zadeh, G. Serum lactate as a potential biomarker of malignancy in primary adult brain tumours J Clin Neurosci; 2015, 22 (1): 144-8 Lactate, a by-product of glycolysis, is an indicator of poor tissue perfusion and is a useful biomarker with prognostic value in risk-stratifying patients in several diseases. Furthermore, elevated lactate production is observed in tumour glycolysis, also known as the Warburg effect, and is essential in promoting tumour cell invasion, metastasis, and immune system evasion, promoting resistance to cell death. However, there are no studies of elevated serum lactate in brain tumour patients as a potential biomarker, to our knowledge. The aim of this study is to determine possible correlations between the malignancy of tumours and pre- and intraoperative serum lactate elevation in patients undergoing craniotomy for tumour resection. We provide initial evidence that a rise in serum lactate can be used as a non-invasive biomarker that correlates with brain tumour grade. The results from this study and future prospective studies may allow for determination of tumour progression and response to therapy using serum lactate as a biomarker. Address: Department of Anesthesia, University Health Network, Toronto Western Hospital, Toronto, Ontario, Canada. Division of Neurosurgery, Department of Surgery, University Health Network, Toronto Western Hospital, 399 Bathurst Street, West Wing 4-439, MST 2S8 Toronto, Ontario, Canada. Department of Anesthesia, Christian Medical College Hospital, Vellore, India. Division of Neurosurgery, Department of Surgery, University Health Network, Toronto Western Hospital, 399 Bathurst Street, West Wing 4-439, MST 2S8 Toronto, Ontario, Canada. Electronic address: gelareh.zadeh@uhn.ca.	PMID: 25172017 WOS:000348337300026	INT
281.	Mathew A, Francis I, Prakash J, Goel R, Arvind G, Laishram S, et al. AUTOANTIBODY PROFILE AND ASSOCIATED CLINICAL OUTCOMES IN AN INDIAN POPULATION WITH MYOSITIS Rheumatology (2015) 54 (suppl 1): i122.	WOS:000364513700306	INTL
282.	Mathew A, Prakash J, Goel R, Laishram S, Jayaseelan V, Arya S, et al. CLINICAL CORRELATES OF AUTOANTIBODIES IN INFLAMMATORY MYOSITIS. Internal Medicine Journal. 2015;45:33-	WOS:000354320700106	INT
283.	Mathew AJ(1), Goel R(1), Kumar S(2), Danda D(1). Childhood-onset Takayasu arteritis: an update. Int J Rheum Dis. 2015 Nov 20. doi: 10.1111/1756-185X.12718.	PMID: 26585174	INT
	<ul> <li>(1)Department of Clinical Immunology and Rheumatology, Christian Medical College, Vellore, India.</li> <li>(2)Department of Child Health and Pediatric Rheumatology, Christian Medical College, Vellore, India.</li> <li>Childhood-onset Takayasu arteritis (c-TA) is a distinct subset affecting a wide age group, ranging from young infants to adolescents and it differs from adult TA in many aspects. There is scarcity of data on c-TA worldwide. The disease is classified using the European League Against Rheumatism/Pediatric Rheumatology International Trials Organization/Pediatric Rheumatology European Society criteria. The non-specific nature</li> </ul>		

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	of presenting complaints and lack of appropriate biomarkers delay the early diagnosis of this illness and many children present with complications, which become irreversible once they set in. One of the largest cohorts of 40 children with c-TA from our center reports hypertension as the commonest presenting feature. Systemic symptoms like headache, fever and weight loss are also described. Assessment of disease in c-TA is done by correlating clinical features with raised inflammatory markers. Advanced imaging plays an important role in diagnosis. In c-TA, the role of magnetic resonance angiography is advocated, taking into consideration the enormous amount of radiation exposure with other modalities. Complications of c-TA include cardiovascular, pulmonary, neurological and those arising secondary to long-term steroid and immunosuppression therapy.		
284.	<ul> <li>Mathew BS(1), Prabha R(1), Basu G(2), Rajkumar P(1), Tamilarasi V(2), FlemingDH(1).</li> <li>Therapeutic drug monitoring of modified release once daily tacrolimus in de novo renal transplant with conversion to a twice daily generic in the stable period.</li> <li>J Pharmacol Pharmacother. 2015 Jul-Sep;6(3):156-9. doi: 10.4103/0976-500X.162019.</li> <li>Author information: <ul> <li>(1)Department of Pharmacology and Clinical Pharmacology, Clinical PharmacologyUnit, Christian Medical College Hospital, Vellore, Tamil Nadu, India.</li> <li>(2)Department of Nephrology, Christian Medical College, Vellore, Tamil Nadu, India.</li> </ul> </li> </ul>	PMC4544138, 26312000	NAT
285.	<ul> <li>Mathew JE; Azariah J; George SE; Grewal SS</li> <li>Do they hear what we speak? Assessing the effectiveness of communication to families of critically ill neurosurgical patients.</li> <li><u>J Anaesthesiol Clin Pharmacol.</u> 2015 Jan-Mar;31(1):49-53. doi: 10.4103/0970-9185.150540</li> <li>Department of Neurosurgery, Christian Medical College and Hospital, Ludhiana, Department of Neurosurgery, Christian Medical College and Hospital, Ludhiana, Department of Anaesthesia, Christian Medical College and Hospital, Ludhiana, Department of Anaesthesia, Christian Medical College and Hospital, Vellore, Tamil Departmentof Neurosurgery, Christian Medical College and Hospital, Ludhiana, Punjab, India.</li> <li>ABSTRACT: BACKGROUND AND AIMS: Clinician-family communication must be effective for medical decision making in any Intensive Care Unit (ICU) setting. We performed a prospective study to assess the effectiveness of communication to families of critically ill neurosurgical patients based on the two criteria of comprehension and satisfaction. MATERIALS AND METHODS: The study was conducted on 75 patients in a 15 bedded neurosurgical ICU. An independent investigator assessed the comprehension and satisfaction of diagnosis, prognosis and treatment. The satisfaction was measured using a modified version of the Critical Care Family Needs Inventory (CCFNI) (score of 56-extreme disatisfaction and 14-extreme satisfaction). RESULTS: Poor comprehension was noted in 52 representatives (71.2). The mean satisfaction score as measured by the CCFNI score was 28. Factors associated with poor comprehension included increasing age of patient representative (P = 0.024), higher simplified acute physiology score (P = 0.26), nonoperated patients (P = 0.0087) and clinician estimation of poor prognosis (P = 0.01). Operated patients had significantly better satisfaction score (P = 0.04). CONCLUSION: Families of patients were reasonably satisfied, but had poor comprehension levels of the patient's illness, poor prognosis as estimated by the p</li></ul>	PMID:25755773 PMCID:PMC4353153	NAT

	independent predictors of poor comprehension. Extra effort to communicate with patient representatives at risk of poor comprehension and provision of a family information leaflet could possibly remedy this situation.		
286.	<ul> <li>Insk of poor comprehension and provision of a family information leafer could possibly reflecy this situation.</li> <li>Mathew P(1), Jose A(2), Alex RG(3), Mohan VR(1).</li> <li>Chronic pesticide exposure: Health effects among pesticide sprayers in Southern India</li> <li>Indian J Occup Environ Med. 2015 May-Aug;19(2):95-101. doi:</li> <li>10.4103/0019-5278.165334.</li> <li>Author information: <ul> <li>(1)Department of Community Health, Christian Medical College, Vellore, Tamil</li> <li>Nadu, India. (2)Department of Clinical Biochemistry, Christian Medical College, Vellore, Tamil Nadu, India.</li> <li>(3)Department of Accident and Emergency Medicine, Christian Medical College, Vellore, Tamil Nadu, India.</li> </ul> </li> <li>BACKGROUND: Occupational health has never been a priority for policy makers in India, despite 63% of the Indian population being in the economically productive age group. OBJECTIVES: The study was designed to find out the morbidity as a result of long-term exposure to pesticides among professional pesticide sprayers in a rural block in Tamil Nadu, Juring July to October 2013. A total of 70 professional pesticide sprayers and 66 people engaged in other occupations were enrolled into the study. The participants were administered a standardized questionnaire apart from measuring pulmonary function and peripheral sensations. Venous blood samples were collected for measuring pulmonary function and peripheral sensations. Venous blood samples were collected for measuring pulmonary function and peripheral sensations. Venous blood samples were collected for measuring pulmonary function and peripheral sensations. Venous blood samples were collected for measuring pulmonary function and peripheral sensations. Venous blood samples were collected for measuring serum cholinesterase. RESULTS: The pesticide sprayers had higher prevalence of breathlessness on activities of daily living (odds ratio [OR]: 3.14, 95% confidence interval [CI]: 1.22-8.07), chronic cough/phlegm (OR: 3.53, 95% CI: 1.09-11.4</li></ul>	PMID: 26500412	NAT
287.	Mathew, A. J. and Ravindran, V. Infections and arthritis Best Pract Res Clin Rheumatol; 2014, 28 (6): 935-59 Bacteria, viruses, fungi, and parasites can all cause arthritis of either acute or chronic nature, which can be divided into infective/septic, reactive, or inflammatory. Considerable advances have occurred in diagnostic techniques in the recent decades resulting in better treatment outcomes in patients with infective arthritis. Detection of emerging arthritogenic viruses has changed the epidemiology of infection-related arthritis. The role of viruses in the pathogenesis of chronic inflammatory arthritides such as rheumatoid arthritis is increasingly being recognized. We discuss the various causative agents of infective arthritis and emphasize on the approach to each type of arthritis, highlighting the diagnostic tests, along with their statistical accuracy. Various investigations including newer methods such as nucleic acid amplification using polymerase chain reaction are discussed along with the pitfalls in interpreting the tests. Address: Department of Clinical Immunology and Rheumatology, Christian Medical College, Vellore, India. Centre for Rheumatology, Calicut, Kerala, India. Electronic address: drvinod12@gmail.com.	PMID: 26096095	INT

288.	<ul> <li>Mathew, N. G., Abiramalatha, T., Singh, H. and Santhanam, S.</li> <li>Appendicular Perforation in a Neonate Masquerading as Testicular Torsion</li> <li>Indian Pediatr; 2015, 52 (6): 526-7</li> <li>BACKGROUND: Neonatal appendicitis is difficult to diagnose, and is associated with high mortality. CASE</li> <li>CHARACTERISTICS: A preterm (33 wk) neonate developed abdominal distension feeding intolerance and</li> <li>erythema of left inguinal region on day 4 of life. OBSERVATION: Testicular torsion was suspected but inguinal</li> <li>exploration revealed normal testis with feco-purulent fluid draining into processus vaginalis from peritoneal</li> <li>cavity. Laparotomy revealed inflamed and perforated appendix. Appendectomy and intravenous antibiotics</li> <li>led to a recovery. MESSAGE: Appendicitis in a neonate can rarely present with inguinal symptoms,</li> <li>masquerading as testicular torsion.</li> <li>Address: Departments of Neonatology and *Paediatric Surgery, Christian Medical College, Vellore, Tamilnadu,</li> <li>India. Correspondence to: Dr Sridhar Santhanam, Professor, Department of Neonatology, 3rd floor; ISSCC</li> <li>Building, Christian Medical College, Vellore, Tamilnadu, India. santhanamsridhar@gmail.com.</li> </ul>	PMID: 26121734 WOS:000356724800016	NAT
289.	Mathews K. Causes and Outcomes of Severe Hyponatremia in Elderly Hospitalized Patients in a Large Tertiary Care Indian Teaching Hospital. Journal of the American Geriatrics Society. 2015;63:S183-S	WOS:000352578900511	INT
290.	Mathews V(1). De-escalation of treatment for acute promyelocytic leukaemia? Lancet Haematol. 2015 Sep;2(9):e348-9. doi: 10.1016/S2352-3026(15)00129-5. Ep2015 Aug 20. (1)Department of Haematology, Christian Medical College, Vellore 632004, India. Electronic address: vikram@cmcvellore.ac.in.	PMID: 26685765 WOS:000362075100002	INT
291.	<ul> <li>Matthai SM, Ramakrishna B(1).</li> <li>Cancer stem cells in hepatocellular carcinoma - an immunohistochemical study withhistopathological association.</li> <li>Indian J Med Res. 2015 Oct;142(4):391-8. doi: 10.4103/0971-5916.169195.</li> <li>(1)Department of Pathology, Christian Medical College, Vellore, India.</li> <li>BACKGROUND &amp; OBJECTIVES: Cancer stem cells (CSCs) may be responsible for tumour recurrence and resistance to chemotherapy in hepatocellular carcinoma (HCC). This study was carried out to evaluate the association between histological parameters and liver CSCs (LCSC) in HCC, and to compare distribution of liver CSCs in HCC associated with and without hepatitis B virus (HBV) infection. METHODS: Seventy nine tumours (49 surgical resections from 46 patients, and 30 from autopsy) were reviewed.</li> <li>Immunohistochemical staining for the LCSC marker EpCAM (epithelial cell adhesion molecule), liver progenitor cell (LPC) markers CK19 (cytokeratin 19) and neural cell adhesion molecule (NCAM) were performed and were associated with histological features of tumour RESULTS: Thirty three tumours (41.8%) showed positive staining for EpCAM. CK19 and NCAM expression were seen in 26 (32.9%) and four (5.1%) tumours, respectively. The expression of EpCAM and CK19 was significantly associated with each other ( P&lt;0.001). EpCAM expression was significantly associated with clinical and histological features indicating aggressive tumour behaviour, including younger age of onset, higher serum alpha foetoprotein</li> </ul>	PMID: 26609030 WOS:000365693400007	NAT

	(AFP) levels, tumour cell dedifferentiation, increased mitotic activity, and vascular invasiveness. There was no significant difference in expression of EpCAM, CK19 and NCAM between HBV positive and negative HCC. INTERPRETATION & CONCLUSIONS: The LCSC marker EpCAM was expressed in less than half of HCC, was independent of HBV aetiology, and was strongly associated with clinical and histological features of aggressive tumour behaviour. Positive staining for CK19 suggests a possible LPC origin of the EpCAM positive HCCs.		
292.	Matthai, S. M., Basu, G., Varughese, S., Pulimood, A. B., Veerasamy, T. and Korula, A. Collapsing glomerulopathy following anabolic steroid use in a 16-year-old boy with IgA nephropathy <u>Indian Journal of Nephrology</u> . 2015 Mar-Apr; 25(2): 99-102 Collapsing glomerulopathy (CG) is a proliferative podocytopathy, increasingly recognized in a variety of disease conditions. We report a case of CG in a 16-year-old boy with IgA nephropathy (IgAN) who presented with acute kidney injury, marked proteinuria and hypertension following a short period of anabolic steroid use. Although CG has been associated with long-term anabolic steroid use among body builders, there is no data on the effect of anabolic steroid use in persons with underlying renal disease like IgAN. We postulate that development of CG in our patient could be temporally linked to intake of body-building steroids along with a predisposing background renal disease of IgAN. Address: Department of Pathology, Central Electron Microscopy Unit, Wellcome Trust Research Laboratory, Vellore, Tamil Nadu, India. Department of Nephrology, Christian Medical College, Vellore, Tamil Nadu, India.	PMID: 25838648 PMCID:PMC4379634	NAT
293.	<ul> <li>Matthai, T., Bhowmick, K., Boopalan, P. R. and George, J. C.</li> <li>Neglected Anterior Dislocation of the Knee with Common Peroneal Palsy</li> <li>Case Rep Orthop; 2015, 2015 174965</li> <li>Knee dislocations usually follow high velocity injuries and are increasingly being treated with immediate reduction and staged repair of the ligaments. Neglected knee dislocations are rare and more difficult to treat with inferior outcomes. We present a rare case of neglected anterior dislocation of the knee treated by surgical arthrodesis.</li> <li>Address: Department of Orthopaedics, Christian Medical College, Vellore 632004, India.</li> <li>Muthoot Medical Centre, Pathanamthitta, Kerala 689641, India.</li> </ul>	PMID: 26171266 44855556: 4485556	INT
294.	Mayuranathan T, Rayabararn J, Nath A, Velayudhan S. Identification of Erythroid Specific Enhancers By Analyzing Genome Wide Association of Transcriptional Co- Activators CBP and P300. Blood. 2015;126(23). Department of Hematology, Christian Medical College, Vellore, India 2Centre for Stem Cell Research, Christian Medical College, Vellore, India	WOS:000368020104212	INT
295.	<ul> <li>Michael SA(1), Rabi S(2).</li> <li>Morphology of Sigmoid Colon in South Indian Population: A Cadaveric Study.</li> <li>J Clin Diagn Res. 2015 Aug;9(8):AC04-7. doi: 10.7860/JCDR/2015/13850.6364. Epub 2015 Aug 1.</li> <li>Author information: <ul> <li>(1)Assistant Professor, Department of Anatomy, Christian Medical College , Vellore, India .</li> </ul> </li> </ul>	PMID: 26435933	NAT

22/	INTRODUCTION: Sigmoid volvulus is a common etiological factor in acute large bowel obstruction. The increased length of sigmoid colon is attributed as one of the causes of sigmoid volvulus. AIM: The aim of this study was to find the morphology of sigmoid colon in South Indian population using cadavers. MATERIALS AND METHODS: The present study was performed with 31 cadavers used for teaching purpose. The sigmoid colon was classified into classical, long-narrow and long- broad types by their disposition in the abdominal cavity. The sigmoid loop's relation to pelvic brim was also observed and grouped as pelvic and suprapelvic in position. The length of sigmoid colon along the mesenteric and antimesenteric border, height and width of sigmoid colon in relation to the pelvic brim and the root of mesentery were measured in the study. RESULTS: The study showed that the majority of the sigmoid colons fell into the classical type (47.6%). The sigmoid colon in pelvic position was significantly more prevalent. The mean length of sigmoid colon was 15.2 $\pm$ 4.4cm and 19.2 $\pm$ 6cm considering the pelvic brim and root of mesentery as reference points of measurement respectively. The mean length along antimesenteric border was 22.3 $\pm$ 7.9cm and 25 $\pm$ 8.7cm along the same reference points. The mean length of sigmoid mesocolon respectively. The mean width of mesocolon was 7.4 $\pm$ 3cm (pelvic brim) and 8 $\pm$ 2cm (root of Sigmoid mesocolon) There was a positive correlation of sigmoid colon length with the height of the mesocolon. CONCLUSION: This study documents that the South Indian population has a more classical type of sigmoid colon and that the anatomical dimensions of sigmoid colon and its mesocolon is significantly longer in males.		
296.	Mishra AK(1), Mani S(2), George AA(3), Sudarsanam TD(4). Recurrent pericardial effusion and tamponade in a patient with Erdheim-Chester disease (ECD).	PMID: 26604233	INT
	<ul> <li>BMJ Case Rep. 2015 Nov 24;2015. pii: bcr2015212483. doi: 10.1136/bcr-2015-212483.</li> <li>Author information: <ul> <li>(1)Department of Internal Medicine, Christian Medical College, Vellore, Tamil</li> <li>Nadu, India. (2)Department of Radiology, Christian Medical College, Vellore,</li> <li>Tamil Nadu, India. (3)Department of Dermatology, Christian Medical College,</li> <li>Vellore, Tamil Nadu, India. (4)Department of Internal Medicine Unit II, ChristianMedical College, Vellore,</li> <li>Tamil Nadu, India.</li> </ul> </li> <li>Erdheim-Chester disease (ECD) is a rare xanthogranulomatous disorder characterised by the proliferation of lipid laden histiocytes along with infiltration of various organs of the body. Although commonly presenting with bone pains secondary to bony infiltration, cardiac involvement in the form of periaortic fibrosis and pericardial involvement may be seen in a subgroup of patients. We report a case of ECD presenting as recurrent pericardial effusion along with pericardial tamponade.</li> </ul>		
297.	Mishra, J. and Gupta, M. Cerebrospinal fluid involvement in acute promyelocytic leukaemia at presentation BMJ Case Rep; 2015, 2015 In acute promyelocytic leukaemia (APL), extramedullary disease (EMD) is rare but can occur in those who relapse following therapy. Although the most common site of EMD in APL is central nervous system (CNS) and skin, CNS involvement in recently diagnosed patients with APL is very rare and rarely described. We report cerebrospinal fluid involvement in a case of APL, on day 3 of induction	PMID: 25754165	INT

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	therapy. Address: Department of Pathology, School of Medical Sciences and Research, Greater Noida, Uttar Pradesh, India.		
	Department of General Pathology, Christian Medical College, Vellore, Tamil Nadu, India.		
298.	Mistry, P. K., Lukina, E., Ben Turkia, H., Amato, D., Baris, H., Dasouki, M., Ghosn, M., Mehta, A., Packman, S., Pastores, G., Petakov, M., Assouline, S., Balwani, M., Danda, S., Hadjiev, E., Ortega, A., Shankar, S., Solano, N. H., Ross, L., Angell, J. and Peterschmitt, M. J. Effect of oral eliglustat on splenomegaly in patients with Gaucher disease type 1: the ENGAGE randomized clinical trial JAMA; 2015, 313 (7): 695-706 IMPORTANCE: Gaucher disease type 1 is characterized by hepatosplenomegaly, anemia, thrombocytopenia, and skeletal disease. A safe, effective oral therapy is needed. OBJECTIVE: To determine whether eliglustat, a novel oral substrate reduction therapy, safely reverses clinical manifestations in untreated adults with Gaucher disease type 1. DESIGN, SETTING, AND PARTICIPANTS: Phase 3, randomized, double-blind, placebo-controlled trial conducted at 18 sites in 12 countries from November 2009 to July 2012 among eligible patients with splenomegaly plus thrombocytopenia and/or anemia. Of 72 patients screened, 40 were enrolled. INTERVENTIONS: Patients were stratified by spleen volume and randomized 1:1 to receive eligilustat (50 or 100 mg twice daily; n = 20) or placebo (n = 20) for 9 months. MAIN OUTCOMES AND MEASURES: The primary efficacy end points was percentage change in spleen volume in multiples of normal from baseline to 9 months; secondary efficacy end points were change in hemoglobin level and percentage changes in liver volume and platelet count. RESULTS: All patients had baseline splenomegaly, and 20% had mild anemia. Least-square mean spleen volume decreased by 27.77% (95% CI, -32.57% to -22.97%) in the eliglustat group (from 13.89 to 10.17 multiples of normal) vs an increase of 2.26% (95% CI, -2.54% to 7.06%) in the placebog orgung (from 12.50 to 12.84 multiples of normal) for an absolute treatment difference of -30.03% (95% CI, -36.82% to -23.24%; P < .001). For the secondary end points, the least-square mean absolute differences between groups all favored eliglustat, with a 1.22-g/dL in	PMID: 25688781 WOS:000349476100015	INT
	Address: Yale University School of Medicine, New Haven, Connecticut. Hematology Research Center, Moscow, Russia. Hopital La Rabta, Tunis, Tunisia. Mount Sinai Hospital, Toronto, Ontario, Canada. Rabin Medical Center, Petach Tikvah, and Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel. University of Kansas Medical Center, Kansas City. Hotel-Dieu de France University Hospital, Beirut, Lebanon. The Royal Free Hospital, London, England. University of California, San Francisco, School of Medicine, San Francisco. New York University School of Medicine, New York, New York. Clinical Center of Serbia, University of Belgrade School of Medicine, Belgrade, Serbia. Jewish General Hospital, Montreal, Quebec, Canada. Icahn School of Medicine at Mount Sinai Hospital, New York, New York. Christian Medical College, Vellore, India. University		

	Hospital Alexandrovska, Sofia, Bulgaria. OCA Hospital, Monterrey, Mexico. Emory University, Atlanta, Georgia. Hospital de San Jose-Fundacion Universitaria de Ciencias de la Salud San Jose, Bogota, Colombia. Genzyme, Cambridge, Massachusetts. 14Christian Medical College, Vellore, India.		
299.	Mitra S(1), Abhilash K, Arora S, Miraclin A. A prospective study from south India to compare the severity of malaria caused byPlasmodium vivax, P. falciparum and dual infection.	PMID: 26714506 WOS:000368245700003	NAT
	J Vector Borne Dis. 2015 Oct-Dec;52(4):281-6.		
	Department of Accident and Emergency Medicine, Christian Medical College, Vellore, India.		
	BACKGROUND & OBJECTIVES: Traditionally, Plasmodium falciparum has been attributed to cause severe malaria, whereas P. vivax is considered to cause "benign" tertian malaria. Recently, there has been an increasing body of evidence challenging this conviction. However, the spectrum and degree of severity of the disease caused by P. vivax, as per World Health Organization (2012) remains unclear. Thus, in this prospective study, we aimed at comparing the severity of malaria caused by P. vivax, P. falciparum and dual infection. METHODS: Adult patients presenting to Christian Medical College, Vellore from October 2012 to September 2013 with microscopically confirmed malaria were included in the study. Their clinical and laboratory parameters were recorded and analyzed. Paired t-test and chi-square with 95% CI and post-hoc analyses using the Scheffi post-hoc criterion were used to assess the statistical significance at the level of a <0.05. RESULTS: In total, 131 cases of malaria were identified during the study period, comprising 83 cases of P. vivax, 35 cases of P. falciparum and 13 cases of mixed vivax and falciparum infections. The spectrum and degree of hematological, hepatic, renal, metabolic, central nervous system complications of vivax malaria was not different from that of falciparum group. Thrombocytopenia and hyperbilirubinemia were the most common laboratory abnormalities identified in all the groups. INTERPRETATION & CONCLUSION: This cross-sectional comparative study clearly demonstrates that clinical features, complications and case-fatality rates in vivax malaria can be as severe as in falciparum malaria. Hence, vivax malaria could not be considered benign; and appropriate preventive strategies along with antimalarial therapies should be adopted for control and elimination of this disease.		
300.	Mohan S(1), Nayak R(2), Thomas RJ(3), Ravindran V(2). The Effect of Entonox, Play Therapy and a Combination on Pain Relief in Children: A Randomized Controlled Trial.	PMID: 26545731 WOS:000367564900014	INT
	Pain Manag Nurs. 2015 Dec;16(6):938-43. doi: 10.1016/j.pmn.2015.08.004. Epub 2015 Nov 3.		
	(1)C.S.I. College of Nursing, Dr.S.M.C.S.I.Medical College, Karakonam, Kerala, India. Electronic address: simishalomchristian@yahoo.co.in. (2)College of Nursing, Christian Medical College, Vellore, Tamil Nadu, India. (3)Department of Pediatric Surgery, Christian Medical College, Vellore, Tamil Nadu, India.		
	Pediatric pain is often undertreated/neglected due to time constraints, difficulties in timing of oral analgesics, fear of side effects of opioids and anxiolytics, and apprehension of additional pain in the use of local anesthetic		
	injections. In this study, the researcher was prompted to choose rapidly acting interventions that were low dose and allowed the child to stay alert, suitable		

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	for a quick discharge. The purpose of this study was to evaluate the effects of Entonox, play therapy, and a combination to relieve procedural pain in children aged 4-15 years. The study was designed as a randomized controlled trial; the subjects were divided into four groups using a sequential allocation plan from 123 total subjects. Group A received Entonox, Group B received play therapy, Group C received both Entonox and play therapy, and Group D received existing standard interventions. The study was vetted by the departmental study review committee. The pain level was assessed using FLACC scale for children aged 4-9 years and the Wong Bakers Faces Pain Scale for children aged 10-15 years; scores ranged from 0 to 10. All the data were analyzed using SPSS 16.0 with descriptive statistics and, inferential statistics. The mean pain scores were as follows: Entonox group, 2.87; Play therapy group, 4; combination group, 3; and control group, 5.87. When statistical testing was applied, a significant reduction in the pain score in all the three experimental groups when compared to the control group was found (p = .002), but not in the pain score among the three experimental groups (p = .350). The findings of this study indicated that all three interventions were effective in lowering pain scores when compared to the control group. Play therapy is as potent as Entonox in relieving procedural pain, though there was no additive effect on pain relief when play therapy and Entonox were combined. A protocol for age-related choice between play therapy and Entonoxadministration was introduced as a standing order in the Pediatric Surgerydepartment for acute procedural pain relief		
301.	<ul> <li>Mohan, V. R., Sarkar, R., Abraham, V. J., Balraj, V. and Naumova, E. N.</li> <li>Differential patterns, trends and hotspots of road traffic injuries on different road networks in Vellore district, southern India</li> <li>Trop Med Int Health; 2015, 20 (3): 293-303</li> <li>OBJECTIVE: To describe spatial and temporal profiles of Road Traffic Injuries (RTIs) on different road networks in Vellore district of southern India. METHODS: Using the information in the police maintained First Information Reports (FIRs), daily time series of RTI counts were created and temporal characteristics were analysed with respect to the vehicle, road types and time of the day for the period January 2005 to May 2007. Daily incidence and trend of RTIs were estimated using a Poisson regression analysis. RESULTS: Of the reported 3262 RTIs, 52% had occurred on the National Highway (NH). The overall RTI rate on the NH was 8.8/100 000 vehicles per day with significantly higher pedestrian involvement. The mean numbers of RTIs were significantly higher on weekends. Thirteen percentage of all RTIs were associated with fatalities.</li> <li>Hotspots are major town junctions, and RTI rates differ over different stretches of the NH. CONCLUSION: In India, FIRs form a valuable source of RTI information. Information on different vehicle profile, RTI patterns, and their spatial and temporal trends can be used by administrators to devise effective strategies for RTI prevention by concentrating on the high-risk areas, thereby optimising the use of available personnel and resources.</li> <li>Address: Christian Medical College, Vellore, India.</li> </ul>	PMID: 25425088 PMCID:PMC4308433 WOS:000348665100005	INT
302.	Mohanan E, Panetta J, Royan S, Abraham A, Edison E, Lakshmi K, et al. Population Pharmacokinetics of Fludarabine and Treosulfan in Patients with Thalassemia Undergoing Hematopoietic Stem Cell Transplantation. Blood. 2015;126(23)	WOS:000368020104002.	INT
303.	Mohanan E, Royan S, Panetta J, Abubacker F, Korula A, Abraham A, et al. Generic Intravenous Busulfan in Hematopoietic Stem Cell Transplantation: Relevance of Therapeutic Drug Monitoring. Blood. 2015;126(23)	WOS:000368021801264.	INT
304.	Mohapatra A(1), Matthai SM(2), Vijayakumar K(3), Basu G(4). Quiz page: an unusual cause of nephrotic syndrome.	PMID: 26111909	INT

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Am J Kidney Dis. 2015 Jul;66(1):A18-21. doi: 10.1053/j.ajkd.2014.12.021.		
Author information: (1)Nephrology Department, Christian Medical College, Vellore, India. (2)Central Electron Microscopy Unit, Christian Medical College, Vellore, India. (3)General Pathology Department, Christian Medical College, Vellore, India. (4)Nephrology Department, Christian Medical College, Vellore, India. Electronic address: drbasug@yahoo.co.in.		
Moorthy RK, Rajshekhar V(1).	PMID: 26588616	NAT
	W03.000303035700010	
Neurol India. 2015 Nov-Dec;63(6):841-51.		
(1)Department of Neurological Sciences, Christian Medical College, Vellore, TamilNadu, India.		
Stereotactic radiosurgery (SRS) has proven to be an effective strategy in the management of intracranial arteriovenous malformations (AVMs) in children and adults over the past three decades. Its application has resulted in lowering the morbidity and mortality associated with treatment of deep-seated AVMs. SRS has been used as a primary modality of therapy as well as in conjunction with embolization and microsurgery in the management of AVMs. The obliteration rate after SRS has been reported to range from 35% to 92%. Smaller AVMs receiving higher marginal doses have obliteration rates of 70% and more. The median follow-up reported in most series is approximately 36-40 months. The median time to obliteration has been reported to be approximately 24-36 months in most series. Radiation-induced neurological complications have been reported in less than 10% of patients, with a 1.5%-6% risk of developing a new permanent neurological deficit. The bleeding rate during the latency to obliteration has been reported to be approximately 5%. This review describes the experience reported in literature with respect to the indications, dosage, factors affecting obliteration rate of AVMs, and complications after SRS.		
Moses, V. and Korah, I. Lack of security of networked medical equipment in radiology AJR Am J Roentgenol; 2015, 204 (2): 343-53 OBJECTIVE. There are few articles in the literature describing the security and safety aspects of networked medical equipment in radiology departments. Most radiologists are unaware of the security issues. We review the security of the networked medical equipment of a typical radiology department. MATERIALS AND METHODS. All networked medical equipment in a radiology department was scanned for vulnerabilities with a port scanner and a network vulnerability scanner, and the vulnerabilities were classified using the Common Vulnerability Scoring System. A network sniffer was used to capture and analyze traffic on the radiology network for exposure of confidential patient data. We reviewed the use of antivirus software and firewalls on the networked medical equipment. USB ports and CD and DVD drives in the networked medical equipment were tested to see whether they allowed unauthorized access. Implementation of the virtual private network (VPN) that vendors use to access the radiology network was reviewed. RESULTS. Most of the networked medical equipment in our radiology department used vulnerable software with open ports and services. Of the 144 items scanned, 64 (44%) had at least one critical vulnerability, and 119 (83%) had at least one high-risk vulnerability. Most equipment did not encrypt traffic and allowed capture of confidential patient data. Of the 144 items scanned, two (1%) used antivirus software and three (2%) had a firewall enabled.	PMID: 25615757 WOS:000348652300039	INT
	Author information: (1)Nephrology Department, Christian Medical College, Vellore, India. (2)Central Electron Microscopy Unit, Christian Medical College, Vellore, India. (3)General Pathology Department, Christian Medical College, Vellore, India. (4)Nephrology Department, Christian Medical College, Vellore, India. Electronic address: drbasug@yahoo.co.in. Moorthy RK, Rajshekhar V(1). Stereotactic radiosurgery for intracranial arteriovenous malformations: A review. Neurol India. 2015 Nov-Dec;63(6):841-51. (1)Department of Neurological Sciences, Christian Medical College, Vellore, TamilNadu, India. Stereotactic radiosurgery (SRS) has proven to be an effective strategy in the management of intracranial arteriovenous malformations (AVMS) in children and adults over the past three decades. Its application has resulted in lowering the morbidity and mortality associated with treatment of deep-seated AVMS. SRS has been used as a primary modality of therapy as well as in conjunction with embolization and microsurgery in the management of AVMS. The obliteration rate after SRS has been reported to range from 35% to 92%. Smaller AVMs receiving higher marginal doses have obliteration rates of 70% and more. The median follow-up reported in less than 10% of patients, with a 1.5%-6% risk of developing a new permanent neurological deficit. The bleding rate during the latency to obliteration has been reported to be approximately 5%. This review describes the experience reported in literature with respect to the indications, dosage, factors affecting obliteration rate of AVMs, and complications after SRS. Moses, V. and Korah, I. Lack of security of the networked medical equipment in radiology AR Am J Roentgenol; 2015, 204 (2): 343-53 OBJECTIVE. There are few articles in the literature describing the security and safety aspects of networked medical equipment in radiology departments. Most radiologis department, MATERALS AND METHODS. All networked medical equipment to a typical radiology department was scanned	Author information:       (1)Nephrology Department, Christian Medical College, Vellore, India. (2)Central Electron Microscopy Unit, Christian Medical College, Vellore, India. (3)Reperiod Pathology Department, Christian Medical College, Vellore, India. (4)Nephrology Department, Christian Medical College, Vellore, India. Electronic address: drbasug@yahoo.co.in.       PMID: 26588616         Moorthy RK, Rajshekhar V(1).       Stereotactic radiosurgery for intracranial arteriovenous malformations: A review.       WDS:000365695700010         Neurol India. 2015 Nov-Dec;63(6):841-51.       (1)Department of Neurological Sciences, Christian Medical College, Vellore, TamilNadu, India.       Stereotactic radiosurgery (SRS) has proven to be an effective strategy in the management of VMS. The obliteration rate after SRS has been reported to movering the morbidity and mortality associated with treatment of deeo-seated AVMS. SRS has been used as a primary modality of therapy as well as in conjunction with embolization and microsurgery in the management of AVMS. The obliteration nates for 5RS has been reported to be approximately 34-36 months in most series. Radion-induced neurological complications have been reported in likes than 10% of patients, with a 1.5%-6% risk of developing a new permanent neurological deficit. The bleeding rate during the latency to obliteration has been reported to be approximately 34-36 months in most series. Radion-induced neurological complications, and as the security and safety aspects of networked medical equipment in radiology department. MATERIALAS AND METHODS. 200348652300039         Maxer, Y. and Korah, I.       Lack of

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	not secure on 17 of the 31 (55%) items with a CD or DVD drive. One of three vendors had an insecure implementation of VPN access. CONCLUSION. Radiologists and the medical industry need to urgently review and rectify the security issues in existing networked medical equipment. We hope that the results of our study and this article also raise awareness among radiologists about the security issues of networked medical equipment. Address: 1 Both authors: Department of Radiology, Christian Medical College, Vellore, Dr. Ida Scudder Rd, Vellore 632004, Tamil Nadu, India.		
307.	Mukherjee A, Arun R, Tharyan A. Recovery from Homelessness for Homeless Mentally III: A myth or a Reality Indian Journal of Psychiatry. 2015;57(5):S45-S6.	WOS:000366494300154	NAT
	AUTHOR ADDRESS: Arnab Mukherjee, Arun R, Anna Tharyan Christian Medical College, Vellore, India, arnabmukh11@gmail.com, arunrdr@ gmail.com, anna.vellore@gmail.com		
	Keyword: homelessness, homeless mentally ill, psychosocial, rehabilitation, destitute mentally ill, community psychiatry Background: Homelessness secondary to mental illness is not uncommon. However, care of homeless mentally ill that includes rescuing them from streets, recovering them from psychiatric illness and reuniting them with their families are limited in India. Udhavum Ullangal, a non-government organisation (NGO) in Tamil Nadu, aims at rehabilitation of homeless mentally ill. The NGO has incorporated above principles in its functioning. Objectives: The outcome of psychosocial rehabilitation by Udhavum Ullangal in terms of family reunion of homeless mentally ill is discussed. Methods: Home for Psycho-social Rehabilitation of Mentally Ill Persons run by Udhavum Ullangal Tirupattur Tamil Nadu is registered under Dept of Social Welfare Government of Tamil Nadu. It started functioning in April 2006. The intake strength is 50. Regular psychiatric care is provided by Dept of Psychiatry, Christian Medical College, Vellore, and Tamil Nadu. Data on inmates were collected from the source, were entered into SPSS 16.0 and analysed using descriptive statistics. Results: During the period 2006-2013, 112 inmates were admitted (men: 79, women: 33). Psychiatric assessment revealed most were suffering from ICD-10 diagnosis of Psychosis-unspecified. In addition, a few were intellectually disabled too. At the time of admission, only 7 percent (N=8) could provide accurate personal address whereas 65 percent (N=72) could not provide any address details. Consequent to psychiatric and psychosocial care, families of 64 percent (N=71) were traced. Of these, thirty four men and fourteen women could be reunited with their families. In spite of tracing the family, twenty four inmates continue to stay in the home for various reasons. Conclusion: Psychosocial rehabilitation (PSR) can help address homelessness in mentally ill. However, attitude towards mentally ill still remains an obstacle to PSR. Similar models of rehabilitation o		
308.	Muthu MS(1), Ankita S(2), Renugalakshmi A(3), Richard K(4). Impact of Pharmacological Interventions in Expectant Mothers Resulting in AlteredMutans Streptococci Levels in their Children.	PMID: 26531084 WOS:000364360700003	INT
	Pediatr Dent. 2015;37(5):422-8.		
	(1)Department of Pedodontics and Preventive Dentistry, Faculty of Dental Sciences, Sri Ramachandra University, Chennai, Tamil Nadu, India. muthumurugan@gmail.com. (2)Department of Pedodontics and Preventive Dentistry, Faculty of Dental Sciences, Sri Ramachandra University, Chennai, Tamil Nadu, India.		

	(3)Department of Pedodontics, College of Dental Sciences, Jazan University, Jazan, Saudi Arabia. (4)South Asian Cochrane Network and Centre, Christian Medical College, Vellore, Tamil Nadu, India.		
	PURPOSE: The purpose of this systematic review was to assess whether prenatal use of fluoride, chlorhexidine mouthrinses, and xylitol could alter the mutans streptococci levels in children. METHODS: A systematic search of clinical trials was implemented for the Cochrane Oral Health Group's Trials Register, PubMed, PMC, NCBI, ClinicalKey, Google Scholar, LILACS, and Science Direct. A search for ongoing trials was also undertaken in the clinicaltrial.gov database to identify eligible studies. Data regarding methodology, participants, types of interventions, and outcomes were extracted, and the risk of bias was also assessed independently by two review authors. RESULTS: Only two clinical trials fulfilled the inclusion criteria. Although one study showed significant results, the overall result of this systematic review showed no statistical significance. A risk ratio and 95 percent confidence interval of 0.1 (0.01 to 1.89) were obtained. CONCLUSIONS: Statistically significant results were reported in both the included studies; however, systematic analysis revealed a dearth of current evidence to support the general recommendation of pharmacological interventions for expectant mothers resulting in altered mutans streptococci levels in their children.		
309.	Muthuirulandi Sethuvel DP(1), Anandan S, Devanga Ragupathi NK, Veeraraghavan B, Vinod O, Walia K. Association of blaCTX-M-15 and qnr genes in multidrug-resistant Salmonella Typhimurium and Shigella spp from India.	PMID: 26623641 WOS:000366289600016	INT
	J Infect Dev Ctries. 2015 Nov 30;9(11):1294-7. doi: 10.3855/jidc.6965.		
	(1)Christian Medical College, Vellore, India. <u>dhiviyap@gmail.com</u> .		
310.	Muthusamy, K., Sudhakar, S. V., Yoganathan, S., Thomas, M. M. and Alexander, M. Hypomyelination, Hypodontia, Hypogonadotropic Hypogonadism (4H) Syndrome With Vertebral Anomalies: A Novel Association J Child Neurol; 2015, 30 (7): 937-41 Hypomyelination, hypodontia, hypogonadotropic hypogonadism (4H) syndrome is a rare hypomyelination disorder with around 40 cases reported worldwide. Children with hypomyelination, hypodontia, hypogonadotropic hypogonadism syndrome present with varying degrees of developmental delay with a spastic ataxic syndrome with delayed eruption of teeth along with disruption in the eruption sequence, hypogonadotropic hypogonadism, and a fluctuating clinical course with intercurrent infections and varying periods of stability. The disorder is caused by mutations in POL3A and POL3B genes and is collectively termed as pol III-related leukodystrophies. Here we describe 2 children with hypomyelination, hypodontia, hypogonadotropic, hypogonadism syndrome and the association of multiple vertebral fusion anomalies in one of them, which has not been previously described in the literature. We conclude that the spectrum of the disorder is not limited to brain parenchyma alone and involves all the structures arising from neural ectoderm, and this needs further research. Address: Section of Neurology, Department of Neurological Sciences, Christian Medical College, Vellore, Tamil Nadu, India. Department of Radiology, Christian Medical College, Vellore, Tamil Nadu, India. Section of Neurology, Department of Neurological Sciences, Christian Medical College, Vellore, Tamil Nadu, India mathewalex@cmcvellore.ac.in.	PMID: 25213661 WOS:000354546700018	INT
311.	Muthusamy, K., Yoganathan, S., Thomas, M. M., Alexander, M. and Verghese, V. P.	PMID: 25745323	NAT

	Subacute sclerosing panencephalitis in a child with human immunodeficiency virus (HIV) infection on antiretroviral therapy Ann Indian Acad Neurol; 2015, 18 (1): 96-8 Subacute Sclerosing Panencephalitis (SSPE) in HIV-infected children is a scarcely reported entity with previous reports describing fulminant course. The impact of highly active antiretroviral therapy (HAART) in altering its course remains unknown. We describe a child with HIV infection, who developed measles at 5 months of age and later developed SSPE at 14 years of age, remaining stable at 7 month follow-up, while on HAART for WHO (World Health Organisation) stage IV disease. The dynamics of HIV-related immunosuppression has an impact on the clinical course of SSPE. Contrary to reported cases of fulminant progression, a classic presentation with slow progression can be expected in children on HAART. We reemphasize the recommendation of "early measles vaccination" to prevent measles infection and subsequent SSPE in these children with an increasingly good life expectancy in the era of HAART. Address: Department of Neurological Sciences, Christian Medical College, Vellore, Tamil Nadu, India. Department of Child Health, Christian Medical College, Vellore, Tamil Nadu, India.	PMCID:PMC4350227 WOS:000349841400023	
312.	<ul> <li>Nabarro LE(1,)(2), Veeraraghavan B(3).</li> <li>Combination therapy for carbapenem-resistant Enterobacteriaceae: increasing evidence, unanswered questions, potential solutions.</li> <li>Eur J Clin Microbiol Infect Dis. 2015 Dec;34(12):2307-11. doi: 10.1007/s10096-015-2486-7. Epub 2015 Sep 12.</li> <li>Author information: <ul> <li>(1)Public Health England, London, UK. Laura.nabarro@nhs.net.</li> <li>(2)Department ofMicrobiology, Christian Medical College, Vellore, Tamil Nadu, India. Laura.nabarro@nhs.net.</li> <li>(3)Department of Microbiology, Christian Medical College, Vellore, Tamil Nadu, India.</li> </ul> </li> <li>Carbapenem-resistant Enterobacteriaceae (CRE) are associated with a high mortality rate and are an increasing problem worldwide. In this mini-review, we consider the growing number of observational studies in favour of combination therapy but highlight the absence of randomised control trials. We discuss the importance of data on minimum inhibitory concentrations (MICs), both for surveillance and for individual patient management. We examine the issues surrounding the use of carbapenems, polymyxins and tigecycline in the treatment of CRE. When and how should we be using carbapenems? Which polymyxin is best? Is tigecycline much maligned? Further studies are urgently needed to validate drugcombinations, doses and ratios to maximise efficacy whilst reducing drug exposureand adverse effects.</li> </ul>	PMID: 26363636 WOS:000365424200001	INT
313.	<ul> <li>Nagappan AS(1), Varghese J(2), James JV(3), Jacob M(4).</li> <li>Indomethacin induces endoplasmic reticulum stress, but not apoptosis, in the rat kidney.</li> <li>Eur J Pharmacol. 2015 Aug 15;761:199-205. doi: 10.1016/j.ejphar.2015.04.044. Epub2015 May 7.</li> <li>Author information: <ul> <li>(1)Department of Biochemistry, Christian Medical College, Vellore 632002, India. Electronic address: aruarum@gmail.com. (2)Department of Biochemistry, Christian Medical College, Vellore 632002, India.</li> <li>Electronic address: joevarghese@cmcvellore.ac.in. (3)Department of Biochemistry, Christian Medical College, Vellore 632002, India.</li> </ul> </li> </ul>	PMID: 25958182 WOS:000359227300026	INT

PMID - PUBMED ID; PMCID - PUBMEDCENTRAL ID; WOS - WEB OF SCIENCE ID

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	Electronic address: mjacob@cmcvellore.ac.in.		
	Non-steroidal anti-inflammatory drugs (NSAIDs) are commonly used in clinical practice. However, their use is often associated with adverse effects in the gastrointestinal tract and kidney. Our earlier work with indomethacin, a prototype NSAID, has shown that it induced oxidative stress in the kidney in rats, an event that has been postulated to contribute to pathogenesis of its adverse effects in this organ. Endoplasmic reticulum (ER) stress responses have been shown to occur in response to oxidative stress. We investigated whether this occurred in the rat kidney, in response to indomethacin. For this, Wistar rats were orally gavaged with indomethacin (20mg/kg). Markers of ER stress were studied in the kidneys 1, 12 and 24h later. GRP78, p-PERK and nuclear sXBP-1, all markers of ER stress, were found to be increased in the rat kidney at 12h, in response to indomethacin; levels of these markers fell by 24h. The effects seen at 12h were attenuated by pre-treatment with zinc, a known anti-oxidant, which has earlier been shown to ameliorate indomethacin-induced oxidative stress. Activation of an ER stress response was not associated with induction of apoptosis, as measured by markers of apoptosis such as release of cytochrome c from mitochondria into the cytosol, activation of caspases 3 and 9, cleavage of poly-ADP ribose polymerase and the presence of DNA laddering. We conclude that indomethacin-induced oxidative stress, but did not lead to apoptosis in the rat kidney.		
314.	Naik GS(1), Kodagali R, Mathew BS, Thomas M, Prabha R, Mathew V, Fleming DH. Therapeutic Drug Monitoring of Levetiracetam and Lamotrigine: Is There a Need?	PMID: 25478905 WOS:000358352400003	INT
	Ther Drug Monit. 2015 Aug;37(4):437-44. doi: 10.1097/FTD.000000000000158.		
	Author information: (1)Departments of *Pharmacology and Clinical Pharmacology, and <sup>†</sup> NeurologicalSciences, Christian Medical College, Vellore, India.		
	BACKGROUND: This study was a retrospective assessment of the therapeutic drug monitoring data collected for levetiracetam and lamotrigine from a clinical setting. The proportion of patients in relation to the therapeutic ranges for serum concentrations of lamotrigine and levetiracetam was estimated, and the influence of age and anticonvulsant comedications on their clearances were studied. METHODS: Information on levetiracetam (2011-2013) and lamotrigine (2008-2013) dose, trough concentration, age, sex, body weight, and anticonvulsant comedications prescribed was obtained from the therapeutic drug monitoring register and archived medical records. Patients were categorized into 4 groups based on anticonvulsant comedications and further divided into 3 subgroups based on age (a: <9 years; b: $9-17$ years; c: $\geq 18$ years). In each subgroup, the proportion of patients who achieved trough concentrations in the therapeutic range for levetiracetam and lamotrigine was computed. Apparent clearance (CL/F) was compared across subgroups by 1-way analysis of variance, and factors which significantly predicted CL/F were identified by stepwise multiple linear regression. RESULTS: Overall, 348 (330 patients) and 706 (493 patients) samples for levetiracetam and lamotrigine were included in the analysis. Of these, 56.9% and 72.4% were within, 43.1% and 23.9% below, 0% and 3.7% above the therapeutic range for levetiracetam (P < 0.001) and lamotrigine (P < 0.001). Age <9 years, age $\geq 18$ years, and inducer comedications significantly predicted CL/F for levetiracetam. For lamotrigine, inhibitor comedications, age <9 years, inducer comedications, and age 9-17 years significantly predicted CL/F. CONCLUSIONS: These findings emphasize the need to monitor relatively newer anticonvulsants, lamotrigine and levetiracetam, especially among children and when other		

PMID - PUBMED ID; PMCID - PUBMEDCENTRAL ID; WOS - WEB OF SCIENCE ID

	anticonvulsant comedications are prescribed or discontinued in the treatment regimen.		
315.	Naik, D. and Thomas, N. Yoga- a potential solution for diabetes & metabolic syndrome Indian J Med Res; 2015, 141 (6): 753-6 Address: Department of Endocrinology, Diabetes & Metabolism, Christian Medical College,Vellore 632 004, Tamil Nadu, India.	PMID: 26205017 WOS:000358431400003	NAT
316.	<ul> <li>Nair A, Chichra A, Rachana A.</li> <li>Assessment of knowledge and factors concerning management of emergency and common psychiatric scenarios among non psychiatry doctors; a cross sectional observational study.</li> <li>Indian Journal of Psychiatry. 2015;57(5):S88-S.</li> <li>Author Address:</li> <li>Christian Medical College, Vellore, India, aishwarya86nair@gmail.com, chichra@gmail.com, arunrdr@gmail.com</li> <li>Keywords: knowledge, emergency psychiatry, Delphi method, non psychiatry doctors, India Background:</li> <li>Objective: To assess non- psychiatric professionals' knowledge of common psychiatric emergencies and management issues and factors affecting the same. Background: There are few studies with updated questionnaires to assess knowledge of relevant psychiatric emergencies in non-psychiatry professionals in India, where they are often the first, and sometimes, the only point of contact for the mentally ill. Method: The study adopted a cross-sectional study design. Fifty medical graduates, postgraduates and trainees from Christian Medical College, Vellore, Tamil Nadu participated in the study. Using principles of Delphi method, a knowledge questionnaire on common psychiatric emergencies and psychiatric management issues was developed. The questionnaire had eleven questions. Each question had three options viz. 'true', 'false' and 'I don't know'' total score ranged from 0 to 1.1. A semi structure questionnaire was also used to collect related data on participants. Data was collected and entered into EpiData. Descriptive and bivariate analysis was done using SPSS version 16. Results: There were 9 house-surgeons (male:11, female:8), 16 casualty medical officers (male:7, female:9) and 23 other non-psychiatric postgraduates (male:14, female:9). The mean age of study participants was 25.9 years (standard deviation: 2.6 years). The total score compol psychiatry emergination to isone surgeous (male:14, female:9). The total score conclusion: It is encouraging to observe that there is good knowledge</li></ul>	WOS:000366494300301	NAT
317.	Nair S(1), Chandy TT(2). Cardiac arrest from tramadol and fentanyl combination. Indian J Anaesth. 2015 Jul;59(7):464. doi: 10.4103/0019-5049.160982.	PMC4523981, PMID: 26257433	NAT
	Author information: (1)Department of Neurological Sciences, Christian Medical College, Vellore, TamilNadu, India. (2)Department of Anaesthesia, Christian Medical College, Vellore, Tamil Nadu, India.		

318.	Nair SC, Arora N(1), Jain S, Inbakumar D, Mammen J, Sitaram U. Mean reticulocyte volume enhances the utility of red cell mean sphered cell volume in differentiating peripheral blood spherocytes of hereditary spherocytosis from other causes.	PMID: 26275251 WOS:000370345400008	NAT
	Indian J Pathol Microbiol. 2015 Jul-Sep;58(3):307-9. doi: 10.4103/0377-4929.162836.		
	Author information: 1 Department of Transfusion Medicine and Immunohaematology, Christian Medical College, Vellore, Tamil Nadu, India		
	<ul> <li>2 Department of Laboratory Haematology and Molecular Genetics, TATA Medical Center, Kolkata, West</li> <li>Bengal, India</li> <li>3 Department of Laboratory Services, Artemis Health Institute, Gurgaon, India</li> </ul>		
	CONTEXT: Mean sphered cell volume (MSCV) and mean reticulocyte volume (MRV) are additional reticulocyte parameters generated while processing the blood samples on Beckman coulter LH 755 in the reticulocyte mode using the volume, conductivity and scatter technology. It has been observed that the difference between mean		
	corpuscular volume (MCV) and MSCV is higher in the cases of hereditary spherocytosis (HS) and this difference is increasingly being utilized as a screening tool for spherocytes. In addition now there have been new observations that reticulocyte volume in cases of HS is less as compared to normal reticulocyte. AIMS: Our aim was to test the usefulness of reticulocyte parameters like MSCV and MRV in distinguishing cases of HS and autoimmune hemolytic anemia (AIHA). MATERIALS AND METHODS: This is a retrospective and partly prospective study where peripheral blood ethylenediaminetetraacetic acid samples from cases of HS (n = 57) and AIHA (n = 29) were processed on LH 755 in both the differential and the reticulocyte mode. The data generated were analyzed and compared with data from normal healthy donors (n = 46). RESULTS: Using an algorithm of MCV - MSCV >10 and MRV - MSCV <25, a sensitivity of 84.2% and specificity of 94.7% was observed in cases of HS. CONCLUSIONS: With the reticulocyte analysis, we may now have a simple and cheap additional tool for screening of HS.		
319.	Nair V(1), Madan H, Sofat S, Ganguli P, Jacob MJ, Datta R, Bharadwaj P, Sarkar RS, Pandit AJ, Nityanand S, Goel PK, Garg N, Gambhir S, George PV, Chandy S, Mathews V, George OK, Talwar KK, Bahl A, Marwah N, Bhatacharya A, Bhargava B, Airan B, Mohanty S, Patel CD, Sharma A, Bhatnagar S, Mondal A, Jose J, Srivastava A; MI3 Trial.	PMCID: PMC4613437 PMID: 26354213 WOS:000360996200009	NAT
	Efficacy of stem cell in improvement of left ventricular function in acute myocardial infarctionMI3 Trial. Indian J Med Res. 2015 Aug;142(2):165-74. doi: 10.4103/0971-5916.164245.		
	Author information: 1 Army Hospital (Research and Referral), New Delhi, 2 Military Hospital, Cardio Thoracic Centre, Pune, 3 Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow, 4 Christian Medical College, Vellore, 5 Postgraduate Institute of Medical Education & Research, Chandhigarh, 6 All India Institute of Medical Sciences, New Delhi, 7 Department of Biotechnology, Government of India, New Delhi & 8 Institute of Nuclear Medicine & Allied Sciences, Delhi, India		

	BACKGROUND & OBJECTIVES: Acute myocardial infarction (AMI) is characterized by irreparable and irreversible loss of cardiac myocytes. Despite major advances in the management of AMI, a large number of patients are left with reduced left ventricular ejection fraction (LVEF), which is a major determinant of short and long term morbidity and mortality. A review of 33 randomized control trials has shown varying improvement in left ventricular (LV) function in patients receiving stem cells compared to standard medical therapy. Most trials had small sample size and were underpowered. This phase III prospective, open labelled, randomized multicenteric trial was undertaken to evaluate the efficacy in improving the LVEF over a period of six months, after injecting a predefined dose of $5 \cdot 10 \times 10$ [8] autologous mononuclear cells (MNC) by intracoronary route, in patients, one to three weeks post ST elevation AMI, in addition to the standard medical therapy. METHODS: In this phase III prospective, multicentric trial 250 patients with AMI were included and randomized into stem cell therapy (SCT) and non SCT groups. All patients were followed up for six months. Patients with AMI having left ventricular ejection fraction (LVEF) of $20-50$ per cent were included and were randomized to receive intracoronary stem cell infusion after successfully completing percutaneous coronary intervention (PCI). RESULTS: On intention-to-treat analysis the infusion of MNCs had no positive impact on LVEF improvement of $\ge 5$ per cent. The improvement in LVEF after six months was $5.17 \pm 8.90$ per cent in non SCT group and $4.82 \pm 10.32$ per cent in SCT group. The adverse effects were comparable in both the groups. On post hoc analysis it was noted that the cell dose had a positive impact when infused in the dose of $\ge 5 \times 10$ [8] (n=71). This benefit was noted upto three weeks post AMI. There were 38 trial deviates in the SCT group which was a limitation of the study. INTERPRETATION & CONCLUSIONS: Infusion of stem cells was found to have no		
320.	Nair, M. K., Rajaraman, V., Chacko, D., Russell, S., George, B., Sumaraj, L. and Russell, P. S. Comparison of the Diagnostic Accuracy and Validity of a Short Version of Teen Screen Questionnaire-Mental Health (TSQ -M-Short) for Use in Community Indian J Psychol Med; 2015, 37 (2): 201-4	PMID: 25969607 PMCID: 4418254	NAT
	BACKGROUND: A few self-administered questionnaires are available for assessing mental health among adolescents in primary-care settings. Brief measures are desirable for use in big-data, epidemiological studies. OBJECTIVES: To evaluate a 7-item version, of the Teen Screen Questionnaire-Mental Health (TSQ-		
	M), the TSQ-M-Short. MATERIALS AND METHODS: In this prospective cross-sectional study of 140 adolescents, recruited from 6 rural or urban schools, the newly developed TSQ-M-Short as the measure for validation and General Health Questionnaire-12 item (GHQ-12) as the gold standard measure were		
	administered by independent trained raters. Tests for diagnostic accuracy and validity were conducted. RESULTS: A total TSQ-M-Short score of >/= 6 had a sensitivity of 76%, specificity of 74%, positive likelihood ratio of 2.99, negative likelihood ratio of 0.33, positive predictive value of 6% and a negative predictive value		
	of 82.1%. The area under curve (AUC) in the Receiver Operating Characteristic (ROC) for the TSQ-M-Short version was 0.84 (95% cumulative incidence (CI) = $0.76-0.89$ ). The AUC for the TSQ-M-Short version was higher than the AUC for the original version, and the difference between the areas was 0.10 (95% CI = $0.02$ -		
	0.19), which was statistically significant ( $z = 2.49$ ; $P = 0.01$ ). The internal consistency of TSQ-M-Short, as measured by chronbach's alpha, was 0.34 (95% CI = 0.15-0.48). The construct validity demonstrated a 3-factor structure, which explained 55% of the variance. CONCLUSION: The TSQ-M-Short has an overall		
	diagnostic accuracy which is better than the original TSQ-M. Although the original version includes symptoms for more mental health disorders, providing a wider screen. This short version will prove useful in big-data studies.		

321.       Nair, S. and Chandy, T. T.       PMID: 25937657         Cardiac arrest from tramadol and fentanyl combination       Indian J Anaesth; 2015, 59 (4): 254-5       Address: Department of Neurological Sciences, Neuro ICU, Christian Medical College, Vellore, Tamil Nadu, India.       PMID: 25937657         Department of Anaesthesia, Christian Medical College, Vellore, Tamil Nadu, India.       PMID: 26205016         WOS:000358431400002       Indian J Med Res; 2015, 141 (6): 749-52         Address: Department of Transfusion Medicine, Christian Medical College, Vellore 632 004 Tamil Nadu, India.       PMID: 26205016         323.       Nair, S. C., Vijay, R., Margaret, H. F., Abraham, A., Vishwabandya, A., Sundarsingh, A. J., Kavitha, M. L., Nobuo, A., Tavkar, P., Hiroshi, K. and Srivastava, A.       WOS:000356426904548         Activated partial thromboplastin time (APTT) clot waveform analysis (CWA) on SYSMEX CS 2000 helps differentiate milder from severe phenotype in patients with severe hemophilia A       Journal of Thrombosis and Haemostasis; 2015, 13 ((Nair S.C.; Vijay R.; Margaret H.F.) Transfusion Medicine, Vellore, India): 808	
322.       Nair, S. C. and Mammen, J. J.       PMID: 26205016         Repeat voluntary non-remunerated blood donor is the best quality indicator for blood safety       Indian J Med Res; 2015, 141 (6): 749-52         Address: Department of Transfusion Medicine, Christian Medical College, Vellore 632 004 Tamil Nadu, India.       WOS:000358431400002         323.       Nair, S. C., Vijay, R., Margaret, H. F., Abraham, A., Vishwabandya, A., Sundarsingh, A. J., Kavitha, M. L.,       WOS:000356426904548         Nobuo, A., Tavkar, P., Hiroshi, K. and Srivastava, A.       Activated partial thromboplastin time (APTT) clot waveform analysis (CWA) on SYSMEX CS 2000 helps       WOS:000356426904548         Journal of Thrombosis and Haemostasis; 2015, 13 ((Nair S.C.; Vijay R.; Margaret H.F.) Transfusion Medicine, Vellore, India): 808       Journal of Thrombosis and Haemostasis; 2015, 13 ((Nair S.C.; Vijay R.; Margaret H.F.) Transfusion Medicine, Vellore, India): 808	NAT
Nobuo, A., Tavkar, P., Hiroshi, K. and Srivastava, A. Activated partial thromboplastin time (APTT) clot waveform analysis (CWA) on SYSMEX CS 2000 helps differentiate milder from severe phenotype in patients with severe hemophilia A Journal of Thrombosis and Haemostasis; 2015, 13 ((Nair S.C.; Vijay R.; Margaret H.F.) Transfusion Medicine, Vellore, India): 808	NAT
Background: Since its first report on the assessment of global haemostasis in severe hemophilia in 2002, reports of the use of CWA have been infrequent because coagulometers offering this option were limited. We have assessed CWA on the CS2000(Sysmex, Kobe, Japan) a coagulometer which detects decrease in transmittance at 660 nM during the fibrin clot formation and this rate or Velocity is Minimum of 1st derivative (min1) and the acceleration as Minimum of 2nd derivative (min2). Aims: To assess the ability of CWA on CS2000to detect small changes in factor activity of spiked FVIII deficient plasma and evaluate its usefulness in differentiating the bleeding heterogeneity in patients with severe hemophilia A (SHA) with FVIII:C less than 0.01 IU mL-1. Methods: CWA reference range was established using 133 healthy blood donors. CWA of APTT clot curves of plasma obtained from 45 patients with SHA who were part of an ongoing study and had not received treatment with FVIII products for at least 1 week before the time of sampling. Annual bleeding rate, number of joints involved, HJHS and Pettersson score were used to categorize the mild phenotype among them. Results: CS2000 CWA reference range for APTT was: (min1/ min2 = 1.40 - 3.40/ 0.20 - 0.60). Evaluation of FVIII deficient plasma spiked with rFVIII also showed good linearity of min1 and min2 extending to levels of 0.001iu/mL even though the lowest limit of detection of FVIII: C on CS2000 was only 0.003 IU mL-1. Six of the 45 patients with SHA were categorized as having a mild phenotype. Both min1 and min2 values (mean - 0.10; Range 0.05 - 0.19) obtained on these patients were higher than the patients with severe phenotype (mean - 0.56; Range 0.33 - 1.26/ mean - 0.05; Range 0.02 - 0.04; P = 0.002). Conclusion: The APTT CWA on the CS2000 is sensitive to a wide range of FVIII activity and could differentiate milder from severe phenotype in patients with severe hemophilia A. This is the first time an APTT CWA subdy was done on CS2000. Address: S.C. Nair, Transfusion Medi	INT
<b>324</b> . Nakasaki M, Hwang Y, Xie Y, Kataria S, Gund R, Hajam E, et al. PMID: 26469761	INT

	The matrix protein Fibulin-5 is at the interface of tissue stiffness and inflammation in fibrosis.	WOS:000364932600021	
	The matrix protein ribuin-5 is at the interface of tissue stimess and imanimation in fibrosis.	W03.000304932000021	
	Nature Communications. 2015;6. doi: 10.1038/ncomms9574.		
	http://www.nature.com/ncomms/2015/151015/ncomms9574/pdf/ncomms9574.pdf		
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	Christian Medical College, Ida Scudder Road, Vellore, Tamil Nadu 632004, India. 4Department of		
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	632004, India. 5Department of Rheumatology, Christian Medical College, Ida Scudder Road, Vellore, Tamil		
	Nadu 632004, India. 6Department of Surgery, Christian Medical College, Ida Scudder Road, Vellore, Tamil		
	Nadu 632004, India. 7Department of Pharmacology, Kansai Medical University, 10-15 Fumizono-cho, Moriguchi, Osaka 570-8506, Japan. 8 Section of Cell and Developmental Biology, Division of Biological		
	Sciences, University of California, San Diego, 9500 Gilman Drive, La Jolla, California 92093-0380, USA. w		
	Present address: Soonchunhyang Institute of Medi-bio Science (SIMS), Soonchunhyang University, 22		
	Soonchunhyang-ro, Shinchang-myeon 336-745, South Korea. Correspondence and requests for materials		
	should be addressed to S.V. (email: svarghese@ucsd.edu) or to C.J. (email: colinj@instem.res.in)		
325.	Navaneethan, P. R., Kekre, A., Jacob, K. S. and Varghese, L.	PMID: 26167056	NAT
	Vitamin D deficiency in postmenopausal women with pelvic floor disorders	4481742: 4481742	
	J Midlife Health; 2015, 6 (2): 66-9		
	INTRODUCTION: The aim of this study is to evaluate the association of vitamin D deficiency and pelvic floor		
	disorders (PFD) including pelvic organ prolapse (POP) and stress urinary incontinence in postmenopausal		
	women. MATERIALS AND METHODS: This is a prospective case control study on 120 women with or without		
	symptoms of PFD. Relevant history and clinical examination were conducted. Serum 25-hydroxy vitamin D		
	levels were measured in all women. Chi square and student t test were used to test significance of		
	association. Logistic regression was used to adjust for age. Odds ratios and 95% confidence intervals were		
	calculated. RESULTS: Of the 120 postmenopausal women included, 51 had PFD on clinical examination. Of the 51 cases, 28 women had POP and 14 women had stress incontinence (SUI) while nine women had both		
	POP and SUI. The study showed that vitamin D levels were significantly lower in women with PFD than those		
	without PFD. Menopausal status of more than 5 years was also significantly associated with PFD.		
	CONCLUSION: Findings suggest association of vitamin D deficiency and PFD in postmenopausal women. In		
	addition, postmenopausal women have a high prevalence of vitamin D deficiency indicating a need to		
	evaluate vitamin D levels in these women.		
	Address: Department of Obstetrics and Gynecology, Christian Medical College Hospital, Vellore, Tamil Nadu,		
	India.		
	Department of Psychiatry, Christian Medical College Hospital, Vellore, Tamil Nadu, India.		
326.	Nayak, R., Nair, B. R., Nair, S. and Joseph, M.	PMID: 25810623	NAT
	Rhabdomyolysis in lumbar spinal surgery: Early detection is crucial	4366926: 4366926	
	Indian J Crit Care Med; 2015, 19 (3): 190-1		
	Address: Department of Neurosurgery, Christian Medical College, Neurological ICU, Vellore, Tamil Nadu, India.		
	Department of Neurological Sciences, Christian Medical College, Neurological ICU, Vellore, Tamil Nadu, India.		
327.	Nirmal, T. J. and Kekre, N. S.	PMID: 25624571	NAT
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	Management of urological malignancies: Has positron emission tomography/computed tomography made a difference? <u>Indian Journal of Urology</u> . 2015 Jan-Mar; 31(1): 22-7 Positron emission tomography/computed tomography (PET/CT) technology has been a significant, but expensive addition to the oncologist's armamentarium. The aim of this review was to determine the clinical utility of PET/CT in urological oncology, its impact on disease outcome and cost-effectiveness. We searched MedLine and peer reviewed journals for all relevant literature available online from the year 2000 until January 2014 regarding the use of PET/CT in the management of urological malignancies. (11)C-choline PET/CT has emerged as a powerful tool for assessment of biochemical relapse in prostate cancer. Use of novel radiotracers like (124)I-girentuximab has shown promise in the diagnosis of clear cell renal carcinoma. Fluorodeoxyglucose PET has a proven role in seminoma for the evaluation of postchemotherapy residual masses and has shown encouraging results when used for detection of metastasis in renal, bladder, and penile cancer. Introduction of novel radiotracers and advanced technology has led to a wider application of PET/CT in urological oncology. However, testicular seminoma aside, its impact on disease outcome and cost-effectiveness still needs to be established. Address: Department of Urology, Christian Medical College, Vellore, Tamil Nadu, India.	4300566: 4300566	
328.	Ojha R, George J, Chandy BR, Tharion G, Devasahayam SR. Neuromodulation by surface electrical stimulation of peripheral nerves for reduction of detrusor overactivity in patients with spinal cord injury: A pilot study. J Spinal Cord Med. 2015 Mar;38(2):207-13. doi: 10.1179/2045772313Y.0000000175. Epub 2014 Jan 3. Author Address:1Department of Bioengineering, Christian Medical College, Vellore, India 2Department of Physical Medicine and Rehabilitation, Christian Medical College, Vellore, India 3Princess Royal Spinal Injuries and Neurorehabilitation Center, Northern General Hospital, Sheffield, United Kingdom Correspondence to Department of Bioengineering, Christian Medical College, Vellore, India 2Department of Physical Medicine and Rehabilitation, Christian Medical College, Vellore, India 2Department of Physical Medicine and Rehabilitation, Christian Medical College, Vellore, India 2Department of Physical Medicine and Rehabilitation, Christian Medical College, Vellore, India 3Princess Royal Spinal Injuries and Neurorehabilitation Center, Northern General Hospital, Sheffield, United Kingdom Correspondence to: Rajdeep Ojha, Department of Bioengineering, Christian Medical College, Vellore, Tamil Nadu 632002, India. Email: rajdeep@cmcvellore.ac.in	PMCID: PMC4397203 PMID: 24621046 WOS:000351072300012	INT
	OBJECTIVES: To demonstrate reduction in detrusor overactivity using surface electrical stimulation of posterior tibial nerve (PTN) or dorsal penile nerve (DPN) in patients with spinal cord injury (SCI). DESIGN: Patients with SCI with symptoms of urinary urgency/leaks, with cystometrogram (CMG) proven detrusor overactivity were recruited in this study. Ten persons with observable F-wave from tibial nerve were included in the PTN group. Five persons who had F-wave absent but preserved bulbocavernosus reflex were included in the DPN group. Stimulation was given at 20 Hz, 10-40 mA for 20 minutes/session/day for 14 consecutive days. Detrusor overactivity was recorded using CMG on days 1 and 15. SETTINGS: Rehabilitation Institute, Department of Physical Medicine and Rehabilitation, Christian Medical College and Hospital, Vellore, TN, India. PARTICIPANTS: Patients with SCI. INTERVENTIONS: Surface stimulation of peripheral nerves for reduction of detrusor overactivity. OUTCOME MEASURES: Qualitative analysis using voiding diary data and quantitative analysis using CMG data comparing pre- and post-intervention. RESULTS: P value obtained from voiding chart was 0.021 for PTN and 0.062 for DPN. P value obtained from CMG data was not significant in both groups. In one subject, treatment		

	CINE SELECTION OF THE TEAK 2015 (JANGART TO DEC		
329.	was extended to 4 weeks and further improvement in voiding diary was seen. CONCLUSIONS: In this pilot study of 15 patients, voiding chart data showed statistically significant improvement following PTN stimulation and trend of improvement following DPN stimulation. However, the CMG data were not statistically significant in this sample population. Further studies with larger, appropriately powered sample size would be helpful to demonstrate the associations of symptoms with CMG data. Trial registration CTRI no.; CTRI/2012/12/003234; CMCH Approval no.: CMC/IRB/6735/2008/12/18.	PMID: 26015607	NAT
327.	Fate of bone grafting for acetabular defects in total hip replacement Indian Journal of Orthopaedics. 2015 Mar-Apr; 49(2): 181-6 BACKGROUND: The use of allografts and autografts in the management of acetabular defects have been reported with varying results. Trabecular metal is an expensive option in the management of these defects. This study aims to assess the fate and efficacy of bone grafting for acetabular bone defects in total hip arthroplasty. MATERIALS AND METHODS: A total of 30 hips in 28 patients with acetabular deficiencies were treated with bone grafting and total hip replacement (THR). Seventeen hips had American Academy of Orthopedic Surgeons (AAOS) type 2 (Paprosky type 2c) deficiency and 13 had AAOS type 3 (Paprosky type 3a) defects of the acetabulum. Allografts were used in 15 patients and autografts were used in the remaining 13. Cemented total hip rathroplasty was done in 18 hips and uncemented THR in 12. Seven patients underwent the procedure for, acetabular erosion and symptoms following hemiarthroplasty (4 out of 7), or, acetabular revision for failure (3 out of 7) following total hip arthroplasty. Acetabular deficiencies in other patients were due to posttraumatic causes, advanced primary hip arthritis and second stage treatment of postinfective arthritis. A mesh was used in 6 hips and screws were used in 13 hips for graft fixation. RESULTS: Patients were followed up clinicoradiologically for a period of 10 months to 4 years (mean 23.4 months). One patient had graft lysis and change in cup inclination with persistent pain. He was not keen on further intervention at last followup. Other patients were pain free at the time of followup with radiographs showing maintenance of graft and implant position. CONCLUSION: Bone grafting is a suitable option in the management of acetabular defects in total hip arthroplasty, especially in resource challenged countries. Address: Department of Orthopaedics, Unit 2, Christian Medical College and Hospital, Vellore, Tamil Nadu, India.	PMCID: PMC4436484 WOS:000354385600010	
330.	Oommen, V. and Kanthakumar, P. The gastrointestinal system: a piece of cake Adv Physiol Educ; 2015, 39 (2): 128 Address: Department of Physiology, Ch`ristian Medical College, Vellore, Tamil Nadu, India vinayoommen@cmcvellore.ac.in. Department of Physiology, Christian Medical College, Vellore, Tamil Nadu, India.	PMID: 26031732 WOS:000355533100016	INT
331.	Ostrovidov S(1), Shi X(2), Sadeghian RB(1), Salehi S(1), Fujie T(3), Bae H(4), Ramalingam M(1,)(5), Khademhosseini A(6,)(7,)(8,)(9,)(10,)(11). Stem Cell Differentiation Toward the Myogenic Lineage for Muscle Tissue Regeneration: A Focus on Muscular Dystrophy. Stem Cell Rev. 2015 Dec;11(6):866-84. doi: 10.1007/s12015-015-9618-4. Author information: (1)WPI-Advanced Institute for Materials Research, Tohoku University, Sendai, 980-8577, Japan. (2)National Engineering Research Center for Tissue Restoration and Reconstruction & School of Materials Science and Engineering, South China University of Technology, Guangzhou, 510640,	26323256	INT

CITE SELECTION OF THE TEAK 2015 (SANOART TO DECE		
People's Republic of China. (3)Department of Life Science and Medical Bioscience, School of Advanced Science and Engineering, Waseda University, Tokyo, 162-8480, Japan. (4)College of Animal Bioscience and Technology, Department of Bioindustrial Technologies, Konkuk University, Hwayang-dong, Kwangjin-gu, Seoul, 143-701, Republic of Korea. (5)Christian Medical College Bagayam Campus, Centre for Stem Cell Research, Vellore, 632002, India. (6)WPI-Advanced Institute for Materials Research, Tohoku University, Sendai, 980-8577, Japan. alik@mit.edu. (7)College of Animal Bioscience and Technology, Department of Bioindustrial Technologies, Konkuk University, Hwayang-dong, Kwangjin-gu, Seoul, 143-701, Republic of Korea. alik@mit.edu. (8)Division of Biomedical Engineering, Department of Medicine, Harvard Medical School, Biomaterials Innovation Research Center, Brigham and Women's Hospital, Boston, MA, 02139, USA. alik@mit.edu. (9)Division of Health Sciences and Technology, Harvard-Massachusetts Institute of Technology, Massachusetts Institute of Technology, Cambridge, MA, 02139, USA. alik@mit.edu. (11)Department of Physics, King Abdulaziz University, Jeddah, 21569, Saudi Arabia. alik@mit.edu. (11)Department of Physics, King Abdulaziz University, Jeddah, 21569, Saudi Arabia. alik@mit.edu. (11)Department of Physics, King Abdulaziz University, vorfiber degeneration with severe symptoms. Although current therapies in muscular dystrophy are still very challenging, important progress has been made in materials science and in cellular technologies with the use of stem cells. It is therefore useful to review these advances and the results obtained in a clinical point of view. This article focuses on the differentiation of stem cells into myoblasts, and their application in muscular dystrophy. After an overview of the different types of stem cell into myoblasts. We highlight recent insights obtained in therapies for muscular dystrophy. Finally, we conclude with a discussion on stem cell technology. We discussed in parallel the bene		
<ul> <li>Padaki PA(1), Sachithanandham J(1), Isaac R(2), Ramalingam VV(1), Abraham OC(3), Pulimood SA(4), Kannangai R(1).</li> <li>The performance of reverse transcriptase assay for the estimation of the plasma viral load in HIV-1 and HIV-2 infections.</li> <li>Infect Dis (Lond). 2015 Dec 11:1-5.</li> <li>(1)a Departments of Clinical Virology ; (2)b Rural Unit for Health and Social Affairs (RUHSA) ; (3)c Internal Medicine ; (4)d Dermatology and Venereology , Christian Medical College , Vellore , India.</li> <li>Viral load testing for human immunodeficiency virus 1 (HIV-1) in resource-poor settings continues to be a challenge. Although antiretroviral therapy (ART) is being made available in developing countries, monitoring of viral load is not being done on a regular basis. The purpose of this study was to assess the utility of Cavidi version 3.0, which measures the plasma reverse transcriptase (RT) activity and compare its performance with molecular HIV viral load assays. In all, 125 HIV-1 and 13 HIV-2 positive samples were analyzed. The</li> </ul>	PMID: 26654354	INT
	People's Republic of China. (3)Department of Life Science and Medical Bioscience, School of Advanced Science and Engineering, Wasedu University, Tokyo, 162-8480, Japan. (4)College of Animal Bioscience and Technology, Department of Bioindustrial Technology, Hawayang-dong, Kwangjin-gu, Seoul, 143-701, Republic of Korea. (5)Christian Medical College Bagayam Campus, Centre for Stem Cell Research, Velore, 632002, India. (6)WPI-Advanced Institute for Materials Research, Tohoku University, Sendaj, 980-8577, Japan. alik@mit.edu. (7)College of Animal Bioscience and Technology, Department of Bioindustrial Technologies, Konkuk University, Havayang-dong, Kwangjin-gu, Seoul, 143-701, Republic of Korea. alik@mit.edu. (8)Division of Biomedical Engineering, Department of Medicine, Harvard Medical School, Biomaterials Innovation Research Center, Brigham and Women's Hospital, Boston, MA, 02139, USA. alik@mit.edu. (10)Wyss Institute for Biologically Inspired Engineering, Harvard Minesix, Boston, MA, 02115, USA. alik@mit.edu. (10)Wyss Institute for Biologically Inspired Engineering, Harvard University, Boston, MA, 02115, USA. alik@mit.edu. (11)Department of Physics, King Abdulaziz University, Jeddah, 21569, Saudi Arabia. alik@mit.edu. (11)Department of Febiologically Inspired Engineering, Harvard Muiergity, Boston, MA, 02139, USA. alik@mit.edu. (12)Wyss Institute for Biologically Inspired Engineering, Harvard University, Boston, MA, 021515, USA. alik@mit.edu. (11)Department of Physics, King Abdulaziz University, Jeddah, 21569, Saudi Arabia. alik@mit.edu. (11)Department of the dystrophin gene leading to progressive myofiber degeneration with severe symptoms. Although current therapies in muscular dystrophy are still very challenging, important progressive alsee due to mutations of the dystrophin gene leading to progressive discussed on teres easend. To hove were symptoms. Although current therapies in muscular dystrophy are still very challenging, important progressi has been made in materials science and in cellular technologies w	People's Republic of China. (3)Department of Life Science and Medical Bioscience, School of Avianced                  People's Republic of China. (3)Department of Bioindustrial Technologies, Konkuk University, Hwayang-dong, Kwayang Cangus, Cantre for Stem Cell              Research, Velore, 932002, India. (6)WPF-Advanced Institute for Materials Research, Totokuk University, Sendai, 980-8577, Japan. akk@mit.edu. (7)College of Animal Bioscience and Technology. Department of Bioindustrial Technologies, Konkuk University, Hwayang-dong, Kwanglin-gu, Seoul, 143-701, Republic of Korea. (S)Christian Medical College Bagayam Campus, Cantre for Stem Cell           Bioindustrial Technologies, Konkuk University, Hwayang-dong, Kwanglin-gu, Seoul, 143-701, Republic of Korea. aik@mit.edu. (3)Division of Biometical Engineering, Department of Medical School, Biomaterials Imovation Research Center, Brigham and Women's Hospital, Boston, MA, 02139, USA. aik@mit.edu. (9)Division of Health Sciences and Technology, Almard-Massachusetts Institute of Technology, King Abdulazi University, Jeddah, 21569, Saudi Arabia. alk@mit.edu.           ChilDepartment of Mysics, King Abdulazi University, Uddah, 21569, Saudi Arabia. alk@mit.edu.              (1)Department of Mysics, King Abdulazi University, Boston, MA, 02115, USA. alk@mit.edu.           ChilDepartment of Physics, King Abdulazi University, Potophy (DMD) is a progressive disease due to mutations of the dystrophing ene leading to progressive unsclare dystrophy. Research Center, Sing Abdulazi University, Potophy Tenter an overview of the dystrophing ene leading to progressive unsclare dystrophy. After an overview of the differentiate into myobatist. Between the exclusion on the materials science and in cellular technologies. Bumplication in muscular dystrophy. Hear an overview of th

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	overall sensitivity of the assay was 86.8% and 94.1% for viral load >1000 copies/ml measured by Qiagen Artus HIV-1 RG RT PCR and Abbott RealTime HIV-1 PCR assays, respectively. Compared with the routine molecular viral load assays, Cavidi version 3.0 is inexpensive, user-friendly, the expenditure on infrastructure is minimal, and it can be used for monitoring of both HIV types.		
333.	Padhye KP(1), David KS(2), Dholakia SY(2), Mathew V(2), Murugan Y(2). 'Munchausen syndrome': a forgotten diagnosis in the spine.	PMID: 26510423	INT
	Eur Spine J. 2015 Oct 28. [Epub ahead of print]		
	Author information: (1)Christian Medical College, Ida Scudder Road, Vellore, Tamil Nadu, 632004, India. kedarorth@gmail.com. (2)Christian Medical College, Ida Scudder Road, Vellore, Tamil Nadu, 632004, India.		
	PURPOSE: To present the case of a patient with Munchausen's syndrome who underwent multiple surgeries in the spine before the diagnosis was made and, therefore, to highlight the importance of this obscure condition that can result in unnecessary surgical treatment. METHODS: A 44-year-old businesswoman presented with multiple episodes of low back pain and weakness in both lower limbs over past 11 years. Past history consisted of multiple hospitalizations, and three surgeries on her lumbar spine at different hospitals, with dramatic improvement in symptoms being reported each time after surgery. Clinical examination showed inconsistent and nonspecific neurological findings. Imaging studies like X-rays, magnetic resonance imaging, and all neurophysiological studies were within normal limits. RESULTS: Multi-disciplinary evaluation by a team of orthopedicians, neurologist and psychiatrist and rehabilitation specialists diagnosed it as 'Munchausen syndrome'. Only one report of this fictitious disease in spine was found in review of literature (Association AP, Diagnostic and statistical manual of mental disorders: DSM-IV-TR(®), 2003). CONCLUSIONS: A history of multiple surgical interventions at multiple hospitals, often followed by dramatic improvement and then relapse, should trigger a suspicion of Munchausen syndrome, particularly in the scenario of normal imaging studies. Diagnosing this rare condition in spine is key to avoid unnecessary surgery.		
334.	Pai, R., Ebenazer, A., Paul, M. J., Thomas, N., Nair, A., Seshadri, M. S., Oommen, R., Shanthly, N., Devasia, A., Rebekah, G., Jeyaseelan, L. and Rajaratnam, S. Mutations seen among patients with pheochromocytoma and paraganglioma at a referral center from India Horm Metab Res; 2015, 47 (2): 133-7 Determining the mutational status of susceptibility genes including RET, VHL, SDHx (SDHB, SDHC, SDHD) among patients with pheochromocytoma/paraganglioma (PCC/PGL) is gaining importance. These genes have not been systematically characterized among patients with PCC/PGL from India. The aim of the work was to screen the most frequently mutated genes among patients with PCC/PGL to determine the frequency and spectrum of mutations seen in this region. Fifty patients with PCC/PGL treated at our tertiary care hospital between January 2010 and June 2012 were screened for mutations in susceptibility genes using an algorithmic approach. Thirty-two percent (16/50) of patients were found to be positive for mutations including mutations among RET (n=4), VHL (n=6), SDHB (n=3), and SDHD (n=3) genes. None of these patients were positive for SDHC mutations. A significant association was found between young patients with bilateral tumors and VHL mutations (p=0.002). Two of the 3 patients with extra-adrenal SDHB associated tumors, had unique mutations, viz., c.436delT (exon 5) and c.788_857del (exon 8), one of which was	PMID: 24977658 WOS:000350739000007	INT

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	malignant. High frequency of mutations seen among patients in this study emphasizes the need to consider mutational analysis among Indian patients with PCC/PGL.		
	Address: Department of Pathology, Christian Medical College, Vellore, India. Department of Endocrine Surgery, Christian Medical College, Vellore, India. Department of Endocrinology and Metabolism, Christian Medical College, Vellore, India. Department of Nuclear Medicine, Christian Medical College, Vellore, India. Department of Urology, Christian Medical College, Vellore, India. Department of Biostatistics, Christian Medical College, Vellore, India.		
335.	Palaniappan P(1), Rajaraman V. Visual hallucinations: a treatment-emergent adverse effect of linezolid.	PMID: 25716499 WOS:000354607600015	INT
	J Neuropsychiatry Clin Neurosci. 2015 Winter;27(1):e65. doi: 10.1176/appi.neuropsych.13110338.		
	Author information: (1)Dept. of Psychiatry, PSG Institute of Medical Science and Research, Coimbatore, Tamilnadu, India (PP); and Dept. of Child and Adolescent Psychiatry, Christian Medical College, Vellore, Tamilnadu, India (VR).		
336.	Panda, A. Tissue engineering and stem cell research in Urology: Is the moment yet to come? <u>Indian Journal of Urology</u> . 2015 Apr-Jun; 31(2): 87-8 Address: Department of Urology, Christian Medical College, Vellore, Tamil Nadu, India. E-mail: arabindpanda@gmail.com.	PMID: 25878405 4397560: 4397560	NAT
337.	Pandit A(1), Mathew LG(2), Bavdekar A(3), Mehta S(4), Ramakrishnan G(5), DattaS(6), Liu YF(7). Hepatotropic viruses as etiological agents of acute liver failure and related-outcomes among children in India: a retrospective hospital-based study.	PMC4549952, 26311040	INT
	BMC Res Notes. 2015 Aug 27;8:381. doi: 10.1186/s13104-015-1353-z.		
	Author information: (1)Department of Pediatrics and Neonatology, King Edward Memorial Hospital, Sardar Mudaliar Road, Rasta Peth, Pune, 411011, India. kemhrc@vsnl.net. (2)Christian Medical College, Vellore Child Health Unit 1, Vellore, 632004, India. lenimathew@cmcvellore.ac.in. (3)Department of Pediatrics and Neonatology, King Edward Memorial Hospital, Sardar Mudaliar Road, Rasta Peth, Pune, 411011, India. bavdekar@vsnl.com. (4)GlaxoSmithKline Pharmaceuticals, Dr. Annie Besant Road, Worli, Mumbai, 400 030, India. shailesh.i.mehta@gsk.com. (5)GlaxoSmithKline Pharmaceuticals, #5 Embassy Links, SRT road, Bangalore, 560052, India. gunasekaran.c.ramakrishnan@gsk.com. (6) GlaxoSmithKline Vaccines, Rue Fleming 20, 1300, Wavre, Belgium. sanjoy.k.datta@gsk.com. (7) Glaxo SmithKline Vaccines, 150 Beach Road, #22-00 Gateway West, Singapore, 189720, Singapore. yanfangliu@hotmail.com.		
	BACKGROUND: Acute liver failure (ALF) is marked by a sudden loss of hepatic function and is associated with a high mortality rate in children. The etiology of ALF is shown to vary geographically. This study assessed the frequency of hepatotropic viruses as etiological agents of ALF in Indian children. METHODS: This retrospective study enrolled children aged 0-18 years with confirmed ALF admitted to Christian Medical College, Vellore and King Edward Memorial Hospital and Research Center, Pune between January 2003 and		

	CITE SELECTION OF THE TEAK 2013 (SANOAKT TO DECE		
	December 2005. The frequency of hepatotropic viruses as etiological agents in children with ALF aged $\leq 18$ years was calculated with 95% confidence interval (CI). Descriptive analyses of demographic characteristics, clinical signs and symptoms of ALF, choice of treatment and outcomes were performed. RESULTS: Of 76 children enrolled, 54 were included in the per-protocol analyses. Mean age of children with ALF was 5.43 years (standard deviation = 3.62); 51.9% (28/54) were female. The percentage of children positive for antihepatitis A virus (HAV) IgM and hepatitis B surface antigen was 65.9% (27/41; 95% CI 49.4-79.9) and 15.9% (7/44; 95% CI 6.6-30.1), respectively. The final cause of ALF was HAV (36.3%) followed by hepatitis B virus (HBV; 8.8%). Before and during admission, encephalopathy was observed in 77.8% (42/54) and 63.0% (34/54) of children, respectively. A high number of children (46/54; 85.2%) required intensive care and ALF was fatal in 24.1% (13/54). The proportion of deaths due to HAV and HBV was 18.5% (5/27) and 57.1% (4/7), respectively. CONCLUSIONS: HAV and HBV were the most common etiological agents of ALF in Indian children. Primary prevention by vaccination against HAV and HBV in young childrenmay be useful in the prevention of ALF due to viral hepatitis in India.		
338.	Panwar J(1), Thomas BP(2), Sreekanth R(2). Sonographic findings of extensor digiti minimi triggering caused by thickened extensor retinaculum.	PMC4353823, 25767644	INT
	J Ultrasound. 2014 Nov 5;18(1):79-82. doi: 10.1007/s40477-014-0140-3. eCollection 2015.		
	<ul> <li>Author information:</li> <li>(1)Department of Radiology, Christian Medical College and Hospital, Vellore,</li> <li>632004 Tamil Nadu India. (2)Department of Hand and Leprosy Reconstructive Surgery (HLRS), Christian Medical College and Hospital, Vellore, Tamil Nadu India.</li> <li>Trigger finger is a common well recognized condition and involves the flexor tendons at the A1 pulley in the palm. Triggering of the extensor tendons is a very rare clinical entity. We report a rare case of extensor triggering of little finger caused by constriction of the extensor digiti minimi by a markedly thickened extensor retinaculum (ER) at the wrist, well delineated dynamically by real-time high-resolution ultrasound. The patient underwent release of thickened ER and was asymptomatic immediately.</li> </ul>		
339.	Parmar, H. V. Oncocytic lipoadenoma of submandibular gland: a case report J Clin Diagn Res; 2015, 9 (3): ED05-6 Lipomatous tumours of salivary glands are very uncommonly diagnosed and reported tumours. Majority of these tumours present as painless masses which grow slowly over many years. On the histological grounds, they can be subclassified into "monophasic" (lipoma component only) and "biphasic" (lipoma component+epithelial component) tumours. A handful of biphasic tumours contain oncocytic component and they have been omitted from the WHO classification of salivary gland tumours so far and this has remained a matter of persistent confusion and controversy over many years. Other rare variants of monophasic tumours include fibrolipoma, sialolipoma, angiolipoma, sialadenosis and very rarely a liposarcoma can also occur in salivary glands. Pre-operative imaging can help in picking up the fatty component of the tumours and guide in accurate classification. FNAC may not be accurate in diagnosis of these tumours. We report a case of 45- year-old gentleman presenting with submandibular gland swelling for which submandibular gland excision was done. A final diagnosis of oncocytic lipoadenoma was made. We present this rare entity to add to the few cases reported to date and hence, to increase recognisation and understanding of these rare tumours, which	PMID: 25954628 4413076: 4413076	NAT

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	may help in establishing a reproducible subclassification. We have discussed the pathological aspects with review of literature of this very rare entity. Address: Assistant Professor, Department of General Pathology, Christian Medical College, Vellore, India.		
340.	Pasquini MC(1), Zhang MJ(2), Medeiros BC(3), Armand P(4), Hu ZH(5), NishihoriT(6), Aljurf MD(7), Akpek G(8), Cahn JY(9), Cairo MS(10), Cerny J(11), CopelanEA(12), Deol A(13), Freytes CO(14), Gale RP(15), Ganguly S(16), George B(17),Gupta V(18), Hale GA(19), Kamble RT(20), Klumpp TR(21), Lazarus HM(22), LugerSM(23), Liesveld JL(24), Litzow MR(25), Marks DI(26), Martino R(27), NorkinM(28), Olsson RF(29), Oran B(30), Pawarode A(31), Pulsipher MA(32), RamanathanM(11), Reshef R(23), Saad AA(33), Saber W(5), Savani BN(34), Schouten HC(35),Ringdén O(36), Tallman MS(37), Uy GL(38), Wood WA Jr(39), Wirk B(40), PérezWS(5), Batiwalla M(41), Weisdorf DJ(42). Hematopoietic Cell Transplantation Outcomes in Monosomal Karyotype MyeloidMalignancies.	26327629	INT
	Biol Blood Marrow Transplant. 2015 Aug 29. pii: S1083-8791(15)00572-8. doi: 10.1016/j.bbmt.2015.08.024. [Epub ahead of print]		
	Author information: (1)Center for International Blood and Marrow Transplant Research, Department ofMedicine, Medical College of Wisconsin, Milwaukee, Wisconsin. Electronic address:mpasquini@mcw.edu. (2)Center for International Blood and Marrow TransplantResearch, Department of Medicine, Medical College of Wisconsin, Milwaukee, Wisconsin; Division of Biostatistics, Institute for Health and Society, MedicalCollege of Wisconsin, Milwaukee, Wisconsin. (3)Department of Hematology, StanfordUniversity School of Medicine, Stanford, California. (4)Department of MedicalOncology/Hematologic Malignancies, Dana-Farber Cancer Institute, Boston,Massachusetts. (5)Center for International Blood and Marrow Transplant Research, Department of Medicine, Medical College of Wisconsin, Milwaukee, Wisconsin. (6)Department of Blood and Marrow Transplantation, H. Lee Moffitt Cancer Centerand Research Institute, Tampa, Florida. (7)Department of Oncology, King FaisalSpecialist Hospital Center and Research, Riyadh, Saudi Arabia. (8)Stem CellTransplantation and Cellular Therapy Program, Banner MD Anderson Cancer Center, Gilbert, Arizona. (9)Department of Hematology, University Hospital, Grenoble,France. (10)Division of Pediatric Hematology, Oncology and Stem CellTransplantation, Department of Pediatrics, New York Medical College, Valhalla,New York. (11)Department of Medicine, UMass Memorial Medical Center, Worcester, Massachusetts. (12)Department of Hematologic Oncology and Blood Disorders, Levine Cancer Institute, Carolinas HealthCare System, Charlotte, North Carolina. (13)Department of Oncology, Karmanos Cancer Institute, Wayne State University, Detroit, Michigan. (14)Division of Hematology & Oncology, South Texas VeteransHealth Care System and University of Texas Health Science Center San Antonio, SanAntonio, Texas. (15)Hematology Research Centre, Division of ExperimentalMedicine, Department of Hematology, Christian Medical College, Vellore, India. (18)Blood and Marrow Transplantation, Division of Hematology, Christian		
	Case Medical Center, Cleveland, Ohio. (23)Department of Medicine, Abramson Cancer Center, University of Pennsylvania Medical Center, Philadelphia, Pennsylvania. (24)Department of Medicine, University of Rochester Medical Center, Rochester, New York. (25)Division of		

	Hematology and Transplant Center, Mayo Clinic, Rochester, Minnesota. (26)Pediatric Bone Marrow Transplant, University Hospitals Bristol NHS Trust, Bristol, United Kingdom. (27)Division of Clinical Hematology, Hospital de la Santa Creu I Sant Pau, Barcelona, Spain. (28)Division of Hematology/Oncology, University of Florida College of Medicine, Gainesville, Florida. (29)Division of Therapeutic Immunology, Department of Laboratory Medicine, Karolinska Institutet, Stockholm, Sweden; Centre for Clinical Research Sörmland, Uppsala University of Texas MD Anderson Cancer Center, Houston, Texas. (31)Department of Internal Medicine, University of Tichigan, An Arbor, Michigan. (32)Division of Hematology, Oncology, and Blood and Marrow Transplantation, Children's Hospital Los Angeles, University of Southern California Keck School of Medicine, Los Angeles, California. (33)Division of Hematology/Oncology, Department of Medicine, University of Alabama at Birmingham, Birmingham, Alabama. (34)Division of Hematology/Oncology, Department of Medicine, Vanderbilt University Medical Center, Nashville, Tennessee. (35)Department of Hematology, Academische Ziekenhuis, Maastricht, Netherlands. (36)Division of Therapeutic Immunology, Department of Laboratory Medicine, Karolinska Institutet, Stockholm, Sweden; Centre for Allogeneic Stem Cell Transplantation, Stockholm, Sweden. (37)Leukemia Service, Department of Medicine, University of North Carolina, Chapel Hill, North Carolina. (40)Division of Bone Marrow Transplant, Seattle Cancer Care Alliance, Seattle, Washington. (41)Hematology Branch, National Heart Lung and Blood Institute – National Institutes of Health, Bhetesda, Maryland. (42)Division of Hematology, Oncology and Transplantation, Department of Medicine, University of Minnesota Medical Center, Minneapolis, Minnesota. The presence of monosomal karyotype (MK+) in acute myeloid leukemia (AML) is associated with dismal outcomes. We evaluated the impact of MK+ in AML (MK+AML, n = 240) and in myelodysplastic syndrome (MDS) (MK+MDS, n =		
341.	Patel S(1,)(2), Guerenne L(1,)(2), Gorombei P(1,)(2), Omidvar N(3), Schlageter MH(1,)(2,)(4), Alex AA(5), Ganesan S(5), West R(6), Adès L(1,)(2,)(4), Mathews V(5), Krief P(1,)(2), Pla M(1,)(2), Fenaux P(1,)(2,)(4), Chomienne C(1,)(2,)(4), Padua RA(1,)(2,)(4). pVAX14DNA-mediated add-on immunotherapy combined with arsenic trioxide and all-trans retinoic acid targeted therapy effectively increases the survival of acute promyelocytic leukemia mice.	PMCID: PMC4735069 PMID: 26657197 WOS:000368921300004	INT
	Blood Cancer J. 2015 Dec 11;5:e374. doi: 10.1038/bcj.2015.102.		

342.	Author information: (1)Université Paris Diderot, Institut Universitaire d'Hématologie, Unité Mixte de la Recherche de Santé (UMR- (5) 1131, Paris, France. (2)Institut National de la Santé et de la Recherche Médicale (INSERM) Unité (U) 1131, Paris, France. (3)Haematology Department, Cardiff University School of Medicine, Cardiff, UK. (4)Assistance Publique Hôpitaux de Paris (AP-HP), Hôpital Saint Louis, Paris, France. (5)Department of Hematology, Christian Medical College and Hospital, Vellore, India. (6)Welsh Heart Research Institute, Cardiff University School of Medicine, Cardiff, UK. Patel, B., Chacko, G., Nair, S., Anandan, J., Chacko, A. G., Rajshekhar, V. and Turel, M. Clinicopathological correlates of primary central nervous system lymphoma: experience from a tertiary care center in South India Neurol India: 2015, 63 (1): 77-82 BACKGROUND: Primary central nervous system lymphomas (PCNSL) constitute a rare group of extranodal non-Hodgkin's lymphomas (NHLS). AIM: To study the clinical and immunophenotypic profile of patients with a PCNSL who presented between the years 2000 and 2013 in a tertiary care center in South India. MATERIALS AND METHODS: This was a retrospective study. Demographic and clinical data were obtained from the clinical case records. INCLUSION CRITERIA: Cases of PCNSL involving brain. EXCLUSION CRITERIA: Cases of PCNSL involving the spinal cord, meninges and orbit as well as intravascular large B-cell lymphoma, lymphomas with evidence of systemic disease or secondary lymphomas. Archived slides and tissue blocks were retrieved. All cases had hematoxylin and eosin stained sections and immunohistochemistry for CD20, CD3, and MIB-1. Additional immunohistochemistry was performed for CD10, BCL6, and MUM1 on paraffin blocks with sufficient tissue. RESULTS: There were a total of 73 cases with the mean age of presentation bleing 45.9 years (range 8-71 years) and with a male predominance (male: female (M:F) = 2.3:1). Headache was the commonest presenting complaint. The mean duration of symptoms was	PMID: 25751474 WOS:000351634700016	NAT
343.	Pathrose, G., John, N. T. and Manojkumar, R. A rare case of malignant fibrous histiocytoma/ pleomorphic undifferentiated sarcoma of the kidney J Clin Diagn Res; 2015, 9 (1): PD27-9 Malignant Fibrous Histiocytoma (MFH) usually arises from the extremities with the retroperitoneum being the second most common site. We present the case report of a 58-year-old man presenting with fever and was detected to have a renal mass on evaluation. He underwent a radical nephrectomy with a preoperative diagnosis of renal cell carcinoma. But the final histopathological report was MFH. Primary renal MFH is extremely rare and is usually diagnosed on histopathology with the aid of immunohistochemistry. Address: Senior Registrar, Department of Urology, Christian Medical College , Vellore, Tamil Nadu, India .	PMID: 25738036 4347127: 4347127	NAT

	Associate Professor, Department of Urology, Christian Medical College, Vellore, Tamil Nadu, India . Professor, Department of Pathology, Christian Medical College, Vellore, Tamil Nadu, India .		
344.	Patil AK(1), Muthusamy K(1), Aaron S(1), Alexander M(1), Kachare N(2), Mani S(3), Sniya S(3). A case of Erdheim Chester disease with central nervous system involvement.	PMID: 26425015	NAT
	Ann Indian Acad Neurol. 2015 Jul-Sep;18(3):338-41. doi: 10.4103/0972-2327.157181.		
	Author information: (1)Department of Neurological Sciences, Christian Medical College, Vellore, Tamil Nadu, India. (2)Department of Pathology, Christian Medical College, Vellore, Tamil Nadu, India. (3)Department of Radiology, Christian Medical College, Vellore, Tamil Nadu, India.		
	Erdheim Chester disease (ECD) is a rare non-Langerhans cell histiocytosis, commonly involving the musculoskeletal system. Other tissue can also be involved, including the central nervous system with wide spectrum of clinical features, at times being nonspecific. This can cause diagnostic dilemmas with delay in diagnosis and initiation of therapy. Here we describe a 63-year-old man who had presented with ataxia and behavioral changes, bony pains, weight loss, and fatigue. His computed tomography (CT), 99Tc scintigraphy and histopathological features on bone biopsy were consistent with ECD. Thus, ECD should be considered as a differential diagnosis in patients presenting with bony pain and nonspecific features of multiorgan involvement.		
345.	<ul> <li>Patil, A. K., Alexander, M., Nair, B., Chacko, G., Mani, S. and Sudhakar, S.</li> <li>Clinical, imaging and histopathological features of isolated CNS lymphomatoid granulomatosis</li> <li>Indian J Radiol Imaging; 2015, 25 (1): 56-9</li> <li>Lymphomatoid granulomatosis is a rare systemic angiocentric/angiodestructive, B cell lymphoproliferative</li> <li>disorder. Central nervous system involvement occurs as part of systemic disease. Isolated central nervous</li> <li>system disease is rare with only few case reports. A 53-year-old male presented with progressive cognitive</li> <li>decline, extrapyramidal features, and altered sensorium with seizures over the last 4 years. His magnetic</li> <li>resonance imaging (MRI) of brain showed multiple small enhancing nodules in subependymal/ependymal</li> <li>regions and along the vessels. Brain biopsy showed atypical lymphohistiocytic infiltrate suggestive of</li> <li>lymphomatoid granulomatosis was diagnosed.</li> <li>Address: Department of Neurological Sciences, Section of Neurology, Christian Medical College, Vellore, Tamil</li> <li>Nadu, India.</li> <li>Department of Neurological Sciences, Section of Neuropathology, Christian Medical College, Vellore, Tamil</li> <li>Nadu, India.</li> <li>Department of Neurological Sciences, Section of Neuropathology, Christian Medical College, Vellore, Tamil</li> <li>Nadu, India.</li> <li>Department of Neurological Sciences, Section of Neuropathology, Christian Medical College, Vellore, Tamil</li> <li>Nadu, India.</li> <li>Department of Radiology, Christian Medical College, Vellore, Tamil</li> <li>Nadu, India.</li> </ul>	PMID: 25709167 4329689: 4329689	NAT
346.	Patil, A. K., Prabhakar, A. T., Sivadasan, A., Alexander, M. and Chacko, G. An unusual case of inflammatory necrotizing myopathy and neuropathy with pipestem capillaries Neurol India; 2015, 63 (1): 72-6	PMID: 25751473 WOS:000351634700015	NAT
	Necrotizing myopathy with pipestem capillaries is a form of chronic inflammatory myopathy, with		

	CIVIC SCIENTIFIC POBLICATION FOR THE TEAR 2013 (JANOART TO DECE		
	histopathology showing necrotizing myopathy, minimal cellular infiltration, and microangiopathy. A 30-year- old female presented with progressive limb weakness of 6 months, with skin pigmentation and Raynaud's phenomenon. Serum creatine phosphokinase was 3990 u/L. Muscle biopsy showed necrotic fibers, focal sparse perivascular inflammation/perifascicular atrophy, endomysial/epimysial vessel wall thickening with luminal narrowing. The features were of inflammatory necrotizing myopathy and neuropathy with pipestem capillaries/microangiopathy. She was pulsed with intravenous immunoglobulin, methylprednisolone, and cyclophosphamide and showed a good improvement. In the absence of widespread inflammatory response and classical histopathology findings, it is important to diagnose this condition as it shows a good response to aggressive and prolonged immunotherapy. Address: Department of Neurological Sciences, Christian Medical College, Vellore, Tamil Nadu, India.		
347.	<ul> <li>Paul SA(1), Simon SS(1), Issac B(2), Kumar S(1).</li> <li>Management of severe sleep apnea secondary to juvenile arthritis with temporomandibular joint replacement and mandibular advancement.</li> <li>J Pharm Bioallied Sci. 2015 Aug;7(Suppl 2):S687-90. doi: 10.4103/0975-7406.163479.</li> <li>(1)Dental and Oral Surgery Unit-1, Christian Medical College and Hospital, Vellore, Tamil Nadu, India. (2)General Surgery, Head and Neck, Christian Medical College and Hospital, Vellore, Tamil Nadu, India.</li> <li>Variations affecting the growth centers can severely affect the normal formation and subsequent function of vital musculoskeletal structures. We report a case of bilateral condylar atrophy with a history of juvenile arthritis (JA) resulting in progressive obstructive sleep apnea (OSA) in adulthood. In addition to this, the case report emphasizes the role of temporomandibular joint replacement and advancement of the mandible to correct progressive OSA secondary to idiopathic JA. Computed tomography revealed micrognathia, condylar hypoplasia, and decreased pharyngeal airway space. The resultant increase in the retrolingual-pharyngeal airway space following the surgery, helped to completely resolve the presenting symptoms. It is hoped that the described technique could be used in similar cases with a predictable outcome.</li> </ul>	PMID: 26538944	NAT
348.	<ul> <li>Paul SA(1), Simon SS(1), Karthik AK(2), Chacko RK(1), Savitha S(1).</li> <li>A review of clinical and radiological features of cleidocranial dysplasia with a report of two cases and a dental treatment protocol.</li> <li>J Pharm Bioallied Sci. 2015 Aug;7(Suppl 2):S428-32. doi: 10.4103/0975-7406.163490.</li> <li>(1)Department of Dental and Oral Surgery, Unit 1, Christian Medical College, Vellore, Tamil Nadu, India. (2)Department of Oral and Maxillofacial Surgery, J K K Nattraja Dental College, Kumarapalayam, Tamil Nadu, India.</li> <li>Cleidocranial dysplasia (CCD) is a rare autosomal dominant condition with generalized dysplasia of bone characterized by delayed closure of cranial sutures, hypoplastic or aplastic clavicles, short stature, dental abnormalities and a variety of other skeletal abnormalities. We report two cases presenting with classical features of CCD because of its rarity.</li> </ul>	PMID: 26538892	INT

349.	<ul> <li>Paul, S. S. and Abraham, V. J.</li> <li>How healthy is our geriatric population? a community-based cross-sectional study</li> <li>J Family Med Prim Care; 2015, 4 (2): 221-5</li> <li>INTRODUCTION: With the rise in aged population there is a greater need to look into their nutritional and physical disability aspects which is otherwise neglected. The study aimed to assess the prevalence of malnutrition, anemia and physical disability among the community-dwelling aged population. MATERIALS</li> <li>AND METHODS: A cross-sectional study was carried out in a rural block of north Tamil Nadu. Seventeen villages were selected using cluster sampling based on probability proportional to size. A total of 340 participants of age 60 years and above were selected from these clusters using simple random sampling. Nutritional status and physical disability were assessed using mini nutritional assessment scale and Barthel index. Blood samples were collected for anemia. Appropriate data entry and statistical analysis were done in EPIDATA and SPSS 16. STATISTICAL ANALYSIS USED: Besides calculating prevalence chi square and logistic regression tests were done to identify associated risk factors. RESULTS AND CONCLUSIONS: The overall prevalence of "at risk of malnutrition," anemia and physical disability were 10.9%, 38.2% and 20.6%, respectively. None of the community-dwelling aged population was found to be malnourished. Anemia and physical disability were significantly higher among the older age group [(OR 2.29 (1.17-4.89), (OR 2.81 (95% CI 1.31-6.04), respectively]. Similarly women were more affected with physical disability than men (OR 2.27 (1.28-4.02)). Further studies need to be done to explore the reasons for high prevalence of anemia.</li> <li>Address: Department of Community Health, Christian Medical College, Vellore, Tamil Nadu, India.</li> </ul>	PMID: 25949971 4408705: 4408705	NAT
350.	Paul, T. V. and Thomas, N. Impact of oral antidiabetic agents on bone metabolism	PMID: 26112838 WOS:000357093400004	NAT
054	Indian J Med Res; 2015, 141 (4): 385-8 Address: Department of Endocrinology, Diabetes & Metabolism, Christian Medical College & Hospital, Vellore 632 004, Tamil Nadu, India. Paul, T. V., Selvan, S. A., Asha, H. S., Thomas, N., Venkatesh, K., Oommen, A. T., Mathai, T. and Seshadri,	PMID: 26266149	NAT
351.	A. S. Hypovitaminosis D and other risk factors of femoral neck fracture in South Indian postmenopausal women: A pilot study Journal of Clinical and Diagnostic Research; 2015, 9 (6): OC19-OC22 Background: Non-communicable diseases like hip fractures are a significant problem in a developing country like India. The risk factors for hip fractures vary according to local practices and the availability of preventive health care delivery systems. There is paucity of data on risk factors for hip fracture in the south Indian population. Aim: This study was undertaken to assess risk factors associated with femoral neck (FN) fracture in South Indian postmenopausal women along with subsequent one year mortality. Materials and Methods: One hundred four postmenopausal women with FN fracture and 104 age and BMI matched controls were included. Sedative use, visual impairment and other relevant risk factors were assessed. Bone biochemistry and Bone Mineral Density (BMD) were evaluated. A telephonic interview was done at the end of one year to ascertain the well-being. Results: Sedative use, visual impairment, low FN BMD and vitamin-D deficiency (<20 ng/ml) were seen more in fracture subjects compared to controls (p(less-than or equal to)0.05). At the end of one year, 20% of the fracture subjects and 5% of the controls had died (p=0.001). Conclusion: Risk factors identified in our study are potentially correctable, and needs special attention in an Indian context to prevent hip fractures. Address: T.V. Paul, Department of Endocrinology, Diabetes and Metabolism, Christian Medical College, Vellore, India	PMCID: PMC4525338	NAT

<ul> <li>332. Predically 1(1).</li> <li>233. Predically 1(1).</li> <li>234. Clin Pharmacol Ther. 2015 Dec 16. doi: 10.1002/cpt.323.</li> <li>(1)Department of Pharmacology and Clinical Pharmacology, Christian Medical College, Vellore, 532 002, India.</li> <li>335. Predically 1.</li> <li>336. Predically 1.</li> <li>236. Speartment of Pharmacology and Clinical Pharmacology, Christian Medical College, Vellore, 532 002, India.</li> <li>337. Predically 1.</li> <li>338. Predically 1.</li> <li>338. Predically 1.</li> <li>338. Predically 1.</li> <li>339. Speartment of Pharmacology and Clinical Pharmacology, Christian Medical College, Vellore, Tamil Nadu, India E-mail: Ipsedi@mcroutlone.ac.in.</li> <li>336. Preingattubodiyi Y. Christopher, D. J., Balamugesh, T. and Saheer, S. Address: Department of Pharmary Medicine, Christian Medical College, Vellore, Tamil Nadu, India 2015 May-Jun; 32(3): 287-8</li> <li>Address: Department of Pharmary Medicine, Christian Medical College, Vellore, Tamil Nadu, India.</li> <li>336. Peter D(1), Amirtharaj G(2), Mathew T(1), Pulimood S(1), Ramachandran A(2).</li> <li>Roli of Oxidative and Nitrosative Stress in Pathophysiology of Toxic Epidermal Necrolysis and Stevens Johnson Syndrome-A Pilot Study.</li> <li>336. Indian J Dermatol. 2015 Sep-Oct;60(5):427-31. doi: 10.4103/0019-5154.159617.</li> <li>337. Autor information: (1)Department of Dermatology, Venereology and Leprology, Division of Gastrointestinal Sciences, Christian Medical College, Vellore, Tamil Nadu, India. (2)Wellormo Trust Research Laboratory, Division of Gastrointestinal Sciences, Christian Medical College, Vellore, Tamil Nadu, India. (2)Wellormo Trust Research Laboratory, Division of Gastrointestinal Sciences, Christian Medical College, Vellore, Tamil Nadu, India.</li> <li>340. Address Christian Medical College, Vellore, Tamil Nadu, India.</li> <li>341. Sterens 2000, Tamin Saudo, India. (2)Wellormo Trust Research Laboratory, Division of Gastrointe</li></ul>	352.	Peedicayil J(1).	PMID: 26669276	INT
(1)Department of Pharmacology and Clinical Pharmacology, Christian Medical College, Vellore, 632 002, India.       PMID: 26124535         353.       Peedicayli, J. Epigenetics as a link between psychosocial factors and mental disorders Indian.Journal of Esychiatry. 2015 Apr-Jun; 57(2): 218       PMID: 26124535         354.       Peringatuthchighty, J., Christopher, D. J., Balamugesh, T. and Saheer, S. Address: Department of Pharmacology and Clinical Pharmacology, Christian Medical College, Vellore, Tamil Nadu, India E-mail: jpeedi@cmcvellore a.c.in.       PMID: 25983421       NAT         354.       Peringatuthchighty, J., Christopher, D. J., Balamugesh, T. and Saheer, S. Address: Department of Pharmosoly of Inthophysiology of Toxic Epidermal National India: 2015 May-Jun; 32(3): 287-8       PMID: 25983421       NAT         355.       Peter D(1), Amirtharaj G(2), Mathew T(1), Pulimood S(1), Ramachandran A(2), Punc India: Jolfa Dialogy of Toxic Epidermal Necrolysis and Stevens Johnson Syndrome-A Pilot Study.       PMID: 26538686       NAT         355.       Peter D(2), Amirtharaj G(2), Wenereology and Leprology, Division of Gastrointestinal Sciences, Christian Medical College, Veliore, Tamil Nadu, India.       PMID: 26538686       NAT         356.       BACKGROUND: Oxidative and nitrosative stress caused by drug metabolism may be a trigger for keratinocyte apotosis in the epidermis seen in toxic epidermal necrolysis (TEN) and Stevens Johnson syndrome (SJS). AIMS: To estimate oxidative damage in the serum and to examine the rol eof nitric oxide in mediating epidermal damage in patients with TEN and SJS. MATERIALS AND METHODS: A prospective study was conducted among TEN and SJS. Batients and	352.		PMID: 20009270	1111
College, Vellore, 632 002, India.       PMID: 26124535         353.       Peedicayll, J. Epigenetics as a link between psychosocial factors and mental disorders Indian Journal of Psychiatry. 2015 Apr-Jun; 57(2): 218       NAT         364.       Peringattuthodiyll, Y., Christopher, D. J., Balamugesh, T. and Saheer, S. Address: Department of Pharmacology and Clinical Pharmacology, Christian Medical College, Vellore, Tamil       PMID: 25983421 4429397: 4429397       NAT         355.       Peter Otl), Amirtharaj GI(2), Mathew T(1), Pulimood S(1), Ramachandran A(2). Role of Oxidative schwest in Pathophysiology of Toxic Epidermal Necrolysis and Stevens Johnson Syndrome-A Pilot Study.       PMID: 26538686       NAT         Indian J Dermatol. 2015 Sep-Oct;60(5):427-31. doi: 10.4103/0019-5154.159617.       PMID: 26538686       NAT         BACKGROUND: Oxidative and Nitrosative stress in each pathophysiology (Toxic Epidermal Necrolysis and Stevens Johnson Syndrome-A Pilot Study.       PMID: 26538686       NAT         BACKGROUND: Oxidative and nitrosative stress caused by drug metabolism may be a trigger for keratinocyte apoptosis in the epidermis seen in toxic cepidermal necrolysis (TEN) and Stevens Johnson syndrome (SJS). AIMS: To estimate oxidative damage in the serum and to examine the role of nitric oxide in mediating epidemal damage in patients with TEN and SJS. MATERILS AND METHODS: A prospecity study was conducted among TEN and SJS patients and controls in a tertiary care center between January 2006 and February 2010. Patients with TEN and SJS. MATERILS AND METHODS: A prospecity study group, serum values of protein carbonyls, malondialdehyde, conjugated diene and nitrates were measured. Two- group comparison with the		Clin Pharmacol Ther. 2015 Dec 16. doi: 10.1002/cpt.323.		
Epigenetics as a link between psychosocial factors and mental disorders Indian Journal of Psychiatry. 2015 Apr-Jun; 57(2): 218 Address: Department of Pharmacology and Clinical Pharmacology, Christian Medical College, Vellore, Tamil Nadu, India E-mail: jpeedi@cmcvellore.ac.in.PMCD: 25983421 4429397NAT354.Peringattuthodivil, Y., Christopher, D. J., Balamugesh, T. and Saheer, S. Aberrant atterial supply to left lung Lung India. 2015 May-Jun; 32(3): 287-8 Address: Department of Pulmonary Medicine, Christian Medical College, Vellore, Tamil Nadu, India.PMID: 25983421 4429397: 4429397NAT355.Peter D(1), Amintharaj G(2), Mathew T(1), Pulimood S(1), Ramachandran A(2). Role of Oxidative and Nitrosative Stress in Pathophysiology of Toxic Epidermal Necrolysis and Stevens Johnson Syndrome-A Pilot Study.PMID: 26538686NAT366.Gixid Vienze, Control Stress, Christian Medical College, Vellore, Tamil Nadu, India.PMID: 26538686NAT376.Betro D(1), Amintharaj G(2), Wenereology and Leprology, Division of Gastrointestinal Sciences, Christian Medical College, Vellore, Tamil Nadu, India.PMID: 26538686NAT377.Author information: Gastrointestinal Sciences, Christian Medical College, Vellore, Tamil Nadu, India.PMID: 26538686NAT388.BACKGROUND: Oxidative and nitrosative stress caused by drug metabolism may be a trigger for keratinocyte apoptosis in the epidermis seen in toxic epidermal necrolysis (TEN) and Stevens Johnson syndrome (SJS). AIMS: To estimate oxidative damage in the serum and to examine the role of nitic oxide in mediating epidermal damage in patients with TEN and SJS. METRIALS AND METHODS: A prospective study was conducted among TEN and SJS patients and controls were measured. Two- gr				
354.       Peringattuthodiyil, Y., Christopher, D. J., Balamugesh, T. and Saheer, S. Aberrant arterial supply to left lung Lung India. 2015 May-Jun; 32(3): 287-8 Address: Department of Pulmonary Medicine, Christian Medical College, Vellore, Tamil Nadu, India.       PMID: 25983421 4429397: 4429397         355.       Peter D(1), Amirtharaj G(2), Mathew T(1), Pulimood S(1), Ramachandran A(2). Role of Oxidative and Nitrosative Stress in Pathophysiology of Toxic Epidermal Necrolysis and Stevens Johnson Syndrome-A Pilot Study.       PMID: 26538686       NAT         Author information: (1)Department of Dermatology, Venereology and Leprology, Division of Gastrointestinal Sciences, Christian Medical College, Vellore, Tamil Nadu, India. (2)Wellcome Trust Research Laboratory, Division of Gastrointestinal Sciences, Christian Medical College, Vellore, Tamil Nadu, India.       PMID: 26538686       NAT         BACKGROUND: Oxidative and nitrosative stress caused by drug metabolism may be a trigger for keratinocyte apoptosis in the epidemis seen in toxic epidermal necrolysis (TEN) and Stevens Johnson syndrome (SJS). AIMS: To estimate oxidative damage in the serum and to examine the role of nitric oxide in mediating epidermal damage in patients with TEN and SJS. MATERIALS AND METHODS: A prospective study was conducted among TEN and SJS patients and controls in a tertiary care center between January 2006 and February 2010. Patients with a drug rash without datchment of skin constituted the control group 1 (drug exposed). Ratients without a drug rash constituted the control group 2 (drug unexposed). The serum values of protein carbonyls, malondialdehyde, conjugated diene and nitrates were measured. Two- group comparison with the non-parametric Mann-Whitney U test was used. Significance of differences if any was estabiblised using Pearson'S Chi-square test. RESUL	353.	Epigenetics as a link between psychosocial factors and mental disorders <u>Indian Journal of Psychiatry</u> . 2015 Apr-Jun; 57(2): 218 Address: Department of Pharmacology and Clinical Pharmacology, Christian Medical College, Vellore, Tamil	PMCID:PMC462798	NAT
355.       Peter D(1), Amirtharaj GJ(2), Mathew T(1), Pulimood S(1), Ramachandran A(2).       PMID: 26538686       NAT         Role of Oxidative and Nitrosative Stress in Pathophysiology of Toxic Epidermal       PMID: 26538686       NAT         Necrolysis and Stevens Johnson Syndrome-A Pilot Study.       Indian J Dermatol. 2015 Sep-Oct;60(5):427-31. doi: 10.4103/0019-5154.159617.       Author information:       (1)Department of Dermatology, Venereology and Leprology, Division of Gastrointestinal Sciences, Christian Medical College, Vellore, Tamil Nadu, India.       BACKGROUND: Oxidative and nitrosative stress caused by drug metabolism may be a trigger for keratinocyte apoptosis in the epidermis seen in toxic epidermal necrolysis (TEN) and Stevens Johnson syndrome (SJS). AIMS: To estimate oxidative damage in the serum and to examine the role of nitric oxide in mediating epidermal damage in patients with TEN and SJS. MATERIALS AND METHODS: A prospective study was conducted among TEN and SJS patients and controls in a tertiary care center between January 2006 and February 2010. Patients without a drug rash constituted the control group 2 (drug unexposed). The serum values of protein carbonyls, malondialdehyde, conjugated diene and nitrates were measured. Two-group oparison with the non-parametric Man-Whitney U test was used. Significance of differences if any was established using Pearson's Chi-square test. RESULTS: Ten patients in the SJS-TEN group (study group), 8 patients in control group 1 and 7 patients in control group 2. SCORTEN of 0, 1 and 3 at admission were seen in 2, 6 and 2 patients ne ot significantly increased in the study group when compared to the controls of materies were not significantly increased in the study group when compared to the controls of oxid servers in patients with the non-paremetric Man-Whitney U. Storten carbonyls, malo	354.	Peringattuthodiyil, Y., Christopher, D. J., Balamugesh, T. and Saheer, S. Aberrant arterial supply to left lung Lung India. 2015 May-Jun; 32(3): 287-8		NAT
Author information: (1)Department of Dermatology, Venereology and Leprology, Division of Gastrointestinal Sciences, Christian Medical College, Vellore, Tamil Nadu, India. (2)Wellcome Trust Research Laboratory, Division of Gastrointestinal Sciences, Christian Medical College, Vellore, Tamil Nadu, India. BACKGROUND: Oxidative and nitrosative stress caused by drug metabolism may be a trigger for keratinocyte apoptosis in the epidermis seen in toxic epidermal necrolysis (TEN) and Stevens Johnson syndrome (SJS). AIM5: To estimate oxidative damage in the serum and to examine the role of nitric oxide in mediating epidermal damage in patients with TEN and SJS. MATERIALS AND METHODS: A prospective study was conducted among TEN and SJS patients and controls in a tertiary care center between January 2006 and February 2010. Patients with a maculopapular drug rash without detachment of skin constituted the control group 1 (drug exposed). Patients without a drug rash constituted the control group 2 (drug unexposed). The serum values of protein carbonyls, malondialdehyde, conjugated diene and nitrates were measured. Two- group comparison with the non-parametric Mann-Whitney U test was used. Significance of differences if any was established using Pearson's Chi-square test. RESULTS: Ten patients in the SJS-TEN group (study group), 8 patients in control group 1 and 3/8 patients in group 2. SCORTEN of 0, 1 and 3 at admission were seen in 2, 6 and 2 patients, respectively. The serum values of protein carbonyls, malondialdehyde, conjugated diene and nitrates were not significantly increased in the study group when compared to the controls. CONCLUSIONS: There was no elevation of oxidative stress markers in patients with TEN and SJS as	355.	Peter D(1), Amirtharaj GJ(2), Mathew T(1), Pulimood S(1), Ramachandran A(2). Role of Oxidative and Nitrosative Stress in Pathophysiology of Toxic Epidermal	PMID: 26538686	NAT
<ul> <li>(1)Department of Dermatology, Venereology and Leprology, Division of Gastrointestinal Sciences, Christian Medical College, Vellore, Tamil Nadu, India. (2)Wellcome Trust Research Laboratory, Division of Gastrointestinal Sciences, Christian Medical College, Vellore, Tamil Nadu, India.</li> <li>BACKGROUND: Oxidative and nitrosative stress caused by drug metabolism may be a trigger for keratinocyte apoptosis in the epidermis seen in toxic epidermal necrolysis (TEN) and Stevens Johnson syndrome (SJS). AIMS: To estimate oxidative damage in the serum and to examine the role of nitric oxide in mediating epidermal damage in patients with TEN and SJS. MATERIALS AND METHODS: A prospective study was conducted among TEN and SJS patients and controls in a tertiary care center between January 2006 and February 2010. Patients with a maculopapular drug rash without detachment of skin constituted the control group 1 (drug exposed). Patients without a drug rash constituted the control group 2 (drug unexposed). The serum values of protein carbonyls, malondialdehyde, conjugated diene and nitrates were measured. Two- group comparison with the non-parametric Mann-Whitney U test was used. Significance of differences if any was established using Pearson's Chi-square test. RESULTS: Ten patients in the SJS-TEN group (study group), 8 patients in control group 1 and 3/8 patients in group 2. SCORTEN of 0, 1 and 3 at admission were seen in 2, 6 and 2 patients, respectively. The serum values of protein carbonyls, malondialdehyde, conjugated diene and nitrates were not significantly increased in the study group when compared to the controls. CONCLUSIONS: There was no elevation of oxidative stress markers in patients with TEN and SJS as</li> </ul>				
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<b>356</b> . Peter JV(1), Sudarsan TI(1), Prakash JA(1), Varghese GM(1). PMC4524821, INT	356.	Peter JV(1), Sudarsan TI(1), Prakash JA(1), Varghese GM(1).	PMC4524821,	INT

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	Severe scrub typhus infection: Clinical features, diagnostic challenges and management.	26261776	
	World J Crit Care Med. 2015 Aug 4;4(3):244-50. doi: 10.5492/wjccm.v4.i3.244. eCollection 2015.		
	Author information: (1)John Victor Peter, Thomas I Sudarsan, Medical Intensive Care Unit, Christian Medical College, Vellore 632004, Tamil Nadu, India.		
	Scrub typhus infection is an important cause of acute undifferentiated fever in South East Asia. The clinical picture is characterized by sudden onset fever with chills and non-specific symptoms that include headache, myalgia, sweating and vomiting. The presence of an eschar, in about half the patients with proven scrub typhus infection and usually seen in the axilla, groin or inguinal region, is characteristic of scrub typhus. Common laboratory findings are elevated liver transaminases, thrombocytopenia and leukocytosis. About a third of patients admitted to hospital with scrub typhus infection have evidence of organ dysfunction that may include respiratory failure, circulatory shock, mild renal or hepatic dysfunction, central nervous system involvement or haematological abnormalities. Since the symptoms and signs are non-specific and resemble other tropical infections like malaria, enteric fever, dengue or leptospirosis, appropriate laboratory tests are necessary to confirm diagnosis. Serological assays are the mainstay of diagnosis as they are easy to perform; the reference test is the indirect immunofluorescence assay (IFA) for the detection of IgM antibodies. However in clinical practice, the enzyme-linked immuno-sorbent assay is done due to the ease of performing this test and a good sensitivity and sensitivity when compared with the IFA. Paired samples, obtained at least two weeks apart, demonstrating a $\geq$ 4 fold rise in titre, is necessary for confirmation of serologic diagnosis. The mainstay of treatment is the tetracycline group of antibiotics or chloramphenicol although macrolides are used alternatively. In mild cases, recovery is complete. In severe cases with multi-organ failure, mortality may be as high as 24%.		
357.	Phan T(1), Mula-Hussain L(1), Pavamani S(2), Pearce A(3), D'Souza D(4), Patil NG(5), Traptow L(1), Doll CM(1). The changing landscape of brachytherapy for cervical cancer: a Canadian practice survey.	PMID: 26628868 WOS:000363317900028	INT
	Curr Oncol. 2015 Oct;22(5):356-60. doi: 10.3747/co.22.2562.		
	(1)Department of Oncology, Tom Baker Cancer Centre, Calgary, AB; (2)Department of Radiation Oncology, Christian Medical College, Vellore, South India;(3)Department of Radiation Oncology, Northeast Cancer Centre, Sudbury, ON;(4)Department of Radiation Oncology, London Regional Cancer Program, London, ON; (5)Department of Radiation Oncology, Nova Scotia Cancer Centre, Halifax, NS.		
	BACKGROUND: We documented changes in practice from 2009 to 2012 for cervical cancer brachytherapy in Canada. METHODS: Centres with gynecologic brachytherapy services were sent an e-mailquestionnaire querying their 2012 practice. Responses are reported and comparedwith practice patterns identified in a similar survey for 2009. RESULTS: The response rate was 77% (24 of 31 centres). Almost all use high-dose-rate brachytherapy (92%); low-dose-rate brachytherapy has been completely phased out. Most continue to move patients from the site of applicatorinsertion to the radiation treatment simulation suite (75%) or to a diagnosticimaging department (29%), or both. In 2012, the imaging modalities used for dose specification		

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	were computed tomography [ct (75%)], magnetic resonance imaging[mri (38%)], plain radiography (21%), and cone-beam ct (8%). The number of institutions using mri guidance has markedly increased during the period of interest (9 vs. 1). Most respondents (58% vs. 14%) prescribed using guidelines from the Groupe Européen de Curiethérapie and the European Society for Therapeutic Radiology and Oncology, but they also used point A as a reference. Commonly used high-dose radiation regimens included 30 Gy in 5 fractions and 24Gy in 3 fractions. CONCLUSIONS: In Canada, image-guided brachytherapy for cervical cancer continues to evolve. Although ct- based imaging remains the most commonly used modality, many centres have adopted mri for at least 1 brachytherapy treatment. More centres are using fewer fractions and a slightly lower biologically effective dose, but are still achieving EQD2 (2-Gy equivalent) doses of 80-90 Gy in combination with external-beam radiation therapy.		
358.	<ul> <li>Philip C(1), George B(1), Ganapule A(1), Korula A(1), Jain P(1), Alex AA(1), Lakshmi KM(1), Sitaram U(2), Abubacker FN(1), Abraham A(1), Viswabandya A(1), Srivastava VM(3), Srivastava A(1), Balasubramanian P(1), Mathews V(1).</li> <li>Acute myeloid leukaemia: challenges and real world data from India.</li> <li>Br J Haematol. 2015 Jul;170(1):110-7. doi: 10.1111/bjh.13406. Epub 2015 Apr 9.</li> <li>Author information: <ul> <li>(1)Department of Haematology, Christian Medical College, Vellore, India.</li> <li>(2)Department of Transfusion Medicine and Immunohaematology, Christian Medical College, Vellore, India.</li> <li>(3)Cytogenetics Unit, Christian Medical College, Vellore, India. Comment in Br J Haematol. 2015 Jul;170(1):1-2.</li> </ul> </li> <li>The management of acute myeloid leukaemia (AML) in India remains a challenge. In a two-year prospective study at our centre there were 380 newly diagnosed AML (excluding acute promyelocytic leukaemia, AML-M3) patients. The median age of newly diagnosed patients was 40 years (range: 1-79; 12.3% were ≤ 15 years, 16.3% were ≥ 60 years old) and there were 244 (64.2%) males. The median duration of symptoms prior to first presentation at our hospital was 4 weeks (range: 1-52). The median distance from home to hospital was 580 km (range: 6-3200 km). 109 (29%) opted for standard of care and were admitted for induction chemotherapy. Of the 271 that did not take treatment the major reason was lack of financial resources in 219 (81%). There were 27 (24.7%) inductions deaths and of these, 12 (44.5%) were due to multidrug-resistant gram-negative bacilli and 12 (44.5%) showed evidence of a fungal infection. The overall survival at 1 year was 70.4% ±10.7%, 55.6% ± 6.8% and 42.4% ± 15.6% in patients aged ≤ 15 years, 15 - 60 years and ≥ 60 years, respectively. In conclusion, the biggest constraint is the costof treatment and the absence of a health security net to treat all patients with this diagnosis.</li> </ul>	PMID: 25858293 WOS:000356716500014	INT
359.	<ul> <li>Philip C(1), George B(1), Korula A(1), Srivastava A(1), Balasubramanian P(1), Mathews V(2).</li> <li>Treatment rates of paediatric acute myeloid leukaemia: a view from three tertiary centres in India - response to Gupta et al.</li> <li>Br J Haematol. 2015 Dec 2. doi: 10.1111/bjh.13857.</li> </ul>	PMID: 26627639	INT
	(1)Department of Haematology, Christian Medical College, Vellore, India.		

	(2)Department of Haematology, Christian Medical College, Vellore, India. vikram@cmcvellore.ac.in.		
	<u>And Meenevelore.de.m</u> .		
360.	Phukan, C., Abrol, N., Kumar, R. M. and Devasia, A. Squamous cell carcinoma of the scrotum: the revisit of a rare disease ANZ J Surg; 2015, Address: Department of Urology, Christian Medical College, Vellore,. India	PMID: 25766760	INT
361.	<ul> <li>Platts-Mills JA(1), Babji S(2), Bodhidatta L(3), Gratz J(4), Haque R(5), Havt A(6), McCormick BJ(7), McGrath M(7), Olortegui MP(8), Samie A(9), Shakoor S(10), Mondal D(5), Lima IF(6), Hairraju D(2), Rayamajhi B8(3), Qureshi S(10), KabirF(10), Yori PP(8), Mufamadi B(9), Amour C(11), Carreon JD(7), Richard SA(7), LangD(12), Bessong P(9), Mduma E(11), Ahmed T(5), Lima AA(6), Mason C(3), ZaidiAK(10), Bhutta ZA(10), Kosek M(13), Guerrant RL(1), Gottlieb M(12), Miller M(7), Kang G(2), Houpt ER(14); MAL-ED Network Investigators.</li> <li>Collaborators: Chavez CB, Trigoso DR, Flores JT, Vasquez AO, Pinedo SR, Acosta AM, Ahmed I, Alam D, Ali A, Rasheed M, Soofi S, Turab A, Yousafzai AK, Feroze N, Bose A, Jennifer MS, John S, Kaki S, Koshy B, Muliyil J, Raghava MV, Ramachandran A, Rose A, Sharma SL, Thomas RJ, Pan W, Ambikapathi R, Charu V, Dabo L, Doan V, Graham J, Hoest C, Knobler S, Mohale A, Nayyar G, Psaki S, Rasmussen Z, SeidmanJC, Wang V,</li> <li>Blank R, Gottlieb M, Tountas KH, Swema BM, Yarrot L, Nshama R, Ahmed AM, Tofail F, Hossain I, Mahfuz M, Chandyo RK, Shrestha PS, Shrestha R, Ulak M,Black R, Caulifield L, Checkley W, Chen P, Lee G, Murray-Kolb LE, Schaefer B,Pendergast L, Abreu C, Costa H, Di Moura A, Qurinor Filho J, Leite Á, Lima N,Maciel B, Moraes M, Mota F, Oriá R, Quetz J, Soares A, Patil CL, Mahogo C, Mapula A, Nesamvuni C, Nyathi E, Barrett L, Petri WA, Scharf R, Shrestha B, Shrestha SK,Strand T, Svensen E.</li> <li>Pathogen-specific burdens of community diarrhoea in developing countries: a multisite birth cohort study (MAL-ED).</li> <li>Lancet Glob Health. 2015 Sep;3(9):e564-75. doi: 10.1016/S2214-109X(15)00151-5.Epub 2015 Jul 19.</li> <li>Comment in Lancet Glob Health. 2015 Sep;3(9):e510-1.</li> <li>BACKGROUND: Most studies of the causes of diarrhoea in low-income and middle-income countries have looked at severe disease in people presenting for care, and there are few estimates of pathogen-specific diarrhoea burdens in the community. METHODS: We undertook a</li></ul>	PMID: 26202075 WOS:000360559500022	INT

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	Shigella spp (4·0%, 3·6-4·3). Rotavirus had the highest AF for sites without rotavirus vaccination and the fifth highest AF for sites with the vaccination. There was substantial variation in pathogens according to geography, diarrhoea severity, and season. Bloody diarrhoea was primarily associated with Campylobacter spp and Shigella spp, fever and vomiting with rotavirus, and vomiting with norovirus GII. INTERPRETATION: There was substantial heterogeneity in pathogen-specific burdens of diarrhoea, with important determinants including age, geography, season, rotavirus vaccine usage, and symptoms. These findings suggest that although single-pathogen strategies have an important role in the reduction of the burden of severe diarrhoeal disease, the effect of such interventions on total diarrhoeal incidence at the community level might be limited.		
362.	Poonnoose PM(1), van der Net J(2). Musculoskeletal Outcome in Hemophilia: Bleeds, Joint Structure and Function, Activity, and Health-Related Fitness.	PMID: 25923063 WOS:000364569900010.	INT
	Semin Thromb Hemost. 2015 Nov;41(8):872-9. doi: 10.1055/s-0034-1543997. Epub 2015Apr 29.		
	Author information: (1)Department of Orthopaedics, Unit 2, Christian Medical College & Hospital, Vellore, Tamil Nadu, India. (2)Child Development and Exercise Center, "Wilhelmina" University Childrens' Hospital of UMC Utrecht, Utrecht, The Netherlands.		
	Treatment in hemophilia is designed to reduce bleed frequency, minimize jointdamage, and maximize functional independence and quality of life. Therefore, success of a factor replacement protocol is usually gauged by its ability toproduce near "normal joints"-without any significant pathology. The most commonlyused outcome measurement tools are based on the radiological and clinicalassessment of joint arthropathy. To improve the sensitivity to early changes, theclinical scores have been refined, and imaging based on magnetic resonanceimaging and ultrasonography has been initiated. Although these scores are useful in assessing the structure and function of a joint, they do not consider the `impact of arthropathy on overall musculoskeletal function. They are also not capable of assessing the efficacy of interventions on functional independence, participation in life activities, and quality of life. The development of functional scores such as the Functional Independence Score for Hemophilia, the pediatric Hemophilia Activities List, and some quality of life measurement tools have helped provide a more comprehensive assessment of health. This article describes the psychometric properties and limitations of the various clinimetric tools that are used to assess musculoskeletal outcome in hemophilia and suggests an algorithm for their use in clinical practice. Thieme Medical Publishers 333 Seventh Avenue, New York, NY 10001, USA.		
363.	Prabhakar, A. T., Kamanahalli, R., Sivadasan, A., Joseph, E. and Viggeswarpu, S. Non-fatal acute haemorrhagic leukoencephalitis following snake bite: A case report	PMID: 25790820	INT
	Trop Doct. 2016 Jan;46(1):57-9. doi: 10.1177/0049475515577987. Epub 2015 Mar 18,		
	Acute haemorrhagic leukoencephalitis (AHL) is a fulminant inflammatory disease of cerebral white matter, characterised by demyelination and haemorrhagic necrosis. The outcome is usually fatal with only few survivors. An unusual presentation of a 44-year-old South Indian farmer who developed AHL following a snake bite is reported. Though the initial brain imaging showed extensive involvement of the white matter with multiple haemorrhagic foci, the patient improved spontaneously with no specific therapy. A repeat		

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	magnetic resonance imaging of the brain 28 days after the snake bite confirmed radiological improvement. Address: Department of Neurological Sciences, Christian Medical College, Vellore, India atprabhakar@gmail.com. Department of Radiodiagnosis, Christian Medical College, Vellore, India. Department of Neurological Sciences, Christian Medical College, Vellore, India. Department of Geriatrics, Christian Medical College, Vellore, India.		
364.	<ul> <li>Prabhash K, Parikh P, Noronha V, Joshi A, Rajappa S, Bondarde S, et al.</li> <li>Patterns of EGFR testing for lung cancer among tertiary care centers in India. Journal of Clinical Oncology. 2015;33(15).</li> <li>J Clin Oncol 33, 2015 (suppl; abstr e19114)</li> <li>Author(s):</li> <li>Kumar Prabhash, Purvish M. Parikh, Vanita Noronha, Amit Joshi, Senthill J Rajappa, Shailesh Arjun Bondarde, Shekar Patil, Chirag Jyotiker Desai, Rajesh Naik, Sohit Anand, Raju Titus Chacko, Ghanashyam Biswas, Tarini Prasad Sahoo, Pratap Kishore Das, Ashok K. Vaid, Shyam Aggarwal, Dinesh Doval; Tata Memorial Centre, Mumbai, India; India Cancer Society and ICON ARO, Mumbai, India; Tata Memorial Hospital, Mumbai, India; Indo American Cancer Hospital and Research Institute, Hyderabad, India; Multispecialty Medical Center, Ahmedabad Gujarat, India; Boehringer Ingelheim India Pvt Ltd, Mumbai, India; Christian Medical College, Vellore Tamil Nadu, India; Sparsh Hospital and Critical Care, Bhubaneshwar, India; Chirayu medical college and hospital, Bhopal, India; Sir Ganga Ram Hospital, New Delhi, India; Rajiv Gandhi Cancer Institute, Delhi, India</li> </ul>	WOS:000358036903957	INT
365.	<ul> <li>Pradhan ZS(1), Kuruvilla A(2), Jacob P(2).</li> <li>Surgical management of glaucoma secondary to idiopathic elevated episcleral venous pressure.</li> <li>Oman J Ophthalmol. 2015 May-Aug;8(2):120-1. doi: 10.4103/0974-620X.159266.</li> <li>(1)Department of Ophthalmology, Christian Medical College, Schell Eye Hospital,Vellore, Tamil Nadu, India.</li> <li>(2)Christian Medical College, Schell Eye Hospital,Vellore, Tamil Nadu, India.</li> <li>Idiopathic elevated episcleral venous pressure is characterized by dilated episcleral veins and open angle glaucoma. Trabeculectomies in these eyes are often complicated by uveal effusions (intraoperative or postoperative) at nonhypotonous pressures. We highlight the ability to avoid the need for sclerostomies by preventing intraoperative shallowing of the anterior chamber and the use of tight scleral sutures which should be adjusted postsurgery togradually reach the target intraocular pressure in a step-wise manner.</li> </ul>	PMID: 26622142	INT
366.	<ul> <li>Praharaj, I., John, S. M., Bandyopadhyay, R. and Kang, G.</li> <li>Probiotics, antibiotics and the immune responses to vaccines</li> <li>Philos Trans R Soc Lond B Biol Sci; 2015, 370 (1671):</li> <li>Orally delivered vaccines have been shown to perform poorly in developing countries. There are marked differences in the structure and the luminal environment of the gut in developing countries resulting in changes in immune and barrier function. Recent studies using newly developed technology and analytic</li> </ul>	PMID: 25964456 WOS:000355575800009	INT

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	methods have made it increasingly clear that the intestinal microbiota activate a multitude of pathways that control innate and adaptive immunity in the gut. Several hypotheses have been proposed for the underperformance of oral vaccines in developing countries, and modulation of the intestinal microbiota is now being tested in human clinical trials. Supplementation with specific strains of probiotics has been shown to have modulatory effects on intestinal and systemic immune responses in animal models and forms the basis for human studies with vaccines. However, most studies published so far that have evaluated the immune response to vaccines in children and adults have been small and results have varied by age, antigen, type of antibody response and probiotic strain. Use of anthelminthic drugs in children has been shown to possibly increase immunogenicity following oral cholera vaccination, lending further support to the rationale for modulation of the immune response to oral vaccination through the intestinal microbiome. Address: Division of Gastrointestinal Sciences, Christian Medical College, Vellore, Tamil Nadu 632004, India. Low Cost Effective Care Unit, Christian Medical College, Vellore, Tamil Nadu 632004, India. Division of Gastrointestinal Sciences, Christian Medical College, Vellore, Tamil Nadu 632004, India gkang@cmcvellore.ac.in.		
367.	<ul> <li>Prasad SC(1), Korah S(2).</li> <li>Rare Presentation of Ophthalmia Nodosa.</li> <li>Middle East Afr J Ophthalmol. 2015 Oct-Dec;22(4):520-1. doi: 10.4103/0974-9233.164627.</li> <li>(1)Department of Ophthalmology, Dr SMCSI Medical College, Karakonam, Kerala,India. (2)Department of Ophthalmology, Christian Medical College, Vellore, Tamil Nadu, India.</li> <li>We report a rare case of ophthalmia nodosa, presenting as a painless swelling in the lower palpebral conjunctiva for 2 years with no signs of inflammation. Excision biopsy confirmed the diagnosis.</li> </ul>	PMC4660544 PMID: 26692729 [PubMed - in process]	NAT
368.	Pratheesh R, Swallow DM, Joseph M, Natesan D, Rajaratnam S, Jacob KS, ChackoAG(1). Evaluation of a protocol-based treatment strategy for postoperative diabetes insipidus in craniopharyngioma. Neurol India. 2015 Sep-Oct;63(5):712-7. doi: 10.4103/0028-3886.166533. Author information: (1)Department of Neurological Sciences, Christian Medical College, Vellore, Tamil Nadu, India. BACKGROUND: Postoperative diabetes insipidus (DI) is a significant cause of morbidity in craniopharyngiomas (CP) and its effective management improves outcome. OBJECTIVE: The objective was to determine the efficacy of a treatment protocol in the management of early postoperative DI in CP. MATERIALS AND METHODS: The quality of postoperative DI control in a prospective cohort of 26 patients treated utilizing a strict protocol. A 6-h urine output more than 4 a retrospective cohort of 34 patients (Group 2) managed without a protocol. A 6-h urine output more than 4 ml/kg/h or serum sodium (Na+) more than 145 mEq/L was diagnosed as DI. The quality of DI control was assessed by determining the incidence of serum Na+ values above 150 mEq/L or below 130 mEq/L and the incidence of wide (>10 mEq/L) intra-day fluctuations of serum Na+ levels. RESULTS: The occurrence of high and low serum Na+ levels was significantly lower in Group 1(P = 0.032). The incidence of serum Na+	PMID: 26448230 WOS:000363421500018	NAT

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	exceeding 150 mEq/L on postoperative days 2 and 3 was significantly higher in Group 2 as compared with those in Group 1 (25% vs. 7.6%, P = 0.0008). Hyponatremia was more frequent in Group 2 and tended to occur on postoperative days 6, 7, and 8 (14.2% vs. 3.2%; P = 0.004). The same patients who had hypernatremia in the early part of the week later developed hyponatremia. Although the incidence of wide intra-day fluctuations (>10 mEq/L) was higher in Group 2, it did not reach statistical significance. CONCLUSION: A strict protocol based management results in better control of postoperative DI in CP.		
369.	<ul> <li>Premkumar P, Joseph G, Stephen E, Agarwal S.</li> <li>PC26. Surgeon-Modified Aortic Stent Grafts in Third World Countries.</li> <li>Journal of Vascular Surgery. 2015;61(6):124S-S.</li> <li>http://dx.doi.org/10.1016/j.jvs.2015.04.237</li> <li>Christian Medical College, Vellore, The Tamilnadu Medical University, Vellore, Tamil Nadu, India; 2 Christian Medical College, Vellore, India; 3 Christian Medical College, Vellore, India; 4 Christian Medical College, Vellore, Tamil Nadu, India</li> <li>Objectives: This study demonstrated technical feasibility of surgeon-modified aortic stent grafts in the scenario of nonavailability and nonaffordability of commercially fenestrated stent grafts. Methods: From January 2012 until October 2014, 42 patients underwent procedures with surgeon-modified aortic stent grafts. These grafts were fenestrated on site, usually 2 days prior to the operation in a sterile environment. During the first few grafts, an ophthalmic cautery was used. Later, a specially designed stainless steel fenestrator was designed in different diameters. This was heated on an open flame and used to make precise holes in the fabric of the stent graft, which was unsheathed as required. The diameters of the holes were made 1 to 2 mm smaller than the size of the target vessel. These fenestrations were strengthened with circumferential interlocking 5- 0 polypropylene sutures. The stent grafts were resheathed and sterilized using ethylene oxide. The patients were followed up in 3 to 6 monthly visits. Results: There were a total of 39 male patients had abnormalities in the descending thoracic aorta, 9 in the thoracoabdominal segment, 5 juxtarenal, and 2 involving the aortic arch. Valiant Captiva (Medtronic) was the most common stent (n ¼ 20). A total of 82 fenestrations were created. Successful catheterization was achieved in 79 fenestrations (96%). Six stent grafts (14%) had endoleaks, of which 50% were type III. There were nine delayed endoleaks (21.4%) on follow-up. Average follow-up period was 8.14months</li></ul>	WOS:000361884200232	INT
370.	Premkumar, P. S., Parashar, U. D., Gastanaduy, P. A., Mccracken, J. P., De Oliveira, L. H., Payne, D. C., Patel, M. M., Tate, J. E. and Lopman, B. A. Reduced rotavirus vaccine effectiveness among children born during the rotavirus season: a pooled analysis of 5 case-control studies from the Americas Clin Infect Dis; 2015, 60 (7): 1075-8 Using data from rotavirus vaccine effectiveness (VE) studies, we assessed whether rotavirus season modifies rotavirus VE in infants. In the first year of life, adjusted VE was 72% for children born during rotavirus season and 84% for children born in other months (P = .01). Seasonal factors may interfere with vaccine performance.	PMID: 25452592 WOS:000353714000014	INT

	CINC SCIENTING FODERCATION FOR THE TEAK 2013 (JANOAKT TO DEC		-
371.	Address: National Center for Immunization and Respiratory Diseases, Centers for Disease Control and Prevention, Atlanta, Georgia The Wellcome Trust Research Laboratory, Division of Gastrointestinal Sciences, Christian Medical College, Vellore, Tamil Nadu, India. National Center for Immunization and Respiratory Diseases, Centers for Disease Control and Prevention, Atlanta, Georgia. Center for Health Studies, Universidad del Valle de Guatemala, Guatemala City. Pan American Health Organization, Washington, District of Columbia. Pun TB(1), Krishnamoorthy VP(2), Korula RJ(3), Poonnoose PM(3). Distal femoral rotational alignment in the Indian population - An important consideration in total knee arthroplasty. J Clin Orthop Trauma. 2015 Dec;6(4):240-3. doi: 10.1016/j.jcot.2015.04.002. Epub 2015 May 15. (1)Resident, Department of Orthopaedics, Christian Medical College, Vellore 632004, Tamil Nadu, India. (2)Associate Professor, Department of Orthopaedics, Christian Medical College, Vellore 632004, Tamil Nadu, India. (3)Professor, Department of Orthopaedics, Christian Medical College, Vellore 632004, Tamil Nadu, India. OBJECTIVE: To measure the angular relationships of distal femoral rotational axes in the normal Indian population. MATERIALS AND METHODS: Magnetic Resonance Imaging (MRI) scans of the knee of 40 Indian subjects were used to define the posterior condylar axis, the transepicondylar axis, and the Whiteside-epicondylar angle (W-EP angle) were then calculated. RESULTS: The mean posterior condylar axis and the transepicondylar axis, and the Whiteside-epicondylar angle (W-EP angle) were then calculated. RESULTS: The mean posterior condylar angle in the Indian knee was 4.67° and the mean Whiteside- epicondylar angle was 92.7°. CONCLUSION: There are differences in the distal femoral rotational axes among various races. The mean PCA and the W-EP angle are more externally rotated in the Indian than in the Western, population, but similar to the Chinese. Using fixed values to define the angular relationships between	PMID: 26566337	NAT
372.	Punnen, A., Loganathan, S. K., Veetiyil, G. I., Scott, J. X. and Kumar, S. Neonate with orbital bleed Pediatr Blood Cancer; 2015, 62 (3): 548 Address: Department of Pediatrics, Christian Medical College, Vellore, 632004,, India.	PMID: 25447027 WOS:000348850100035	INT
373.	<ul> <li>Puri P(1), Anand AC(2), Saraswat VA(3), Acharya SK(4), Dhiman RK(5), Sarin SK(6), Singh SP(7), Chawla YK(5), Aggarwal R(3), Amarapurkar D(8), Arora A(9), DixitVK(10), Sood A(11), Shah S(12), Duseja A(5), Kapoor D(13), Shalimar(14), MadanK(14), Pande G(3), Nagral A(15), Kar P(16), Koshy A(17), Puri AS(18), EapenCE(19), Thareja S(20).</li> <li>Indian National Association for Study of the Liver (INASL) Guidance for AntiviralTherapy Against HCV Infection in 2015.</li> <li>J Clin Exp Hepatol. 2015 Sep;5(3):221-38. doi: 10.1016/j.jceh.2015.09.002. Epub2015 Sep 21.</li> </ul>	PMID: 26628840	NAT
	(1)Department of Internal Medicine, Armed Forces Medical College, Pune 411040, India. (2)Department of		

	Gastroenterology, Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow 226014, India. (4)Department of Gastroenterology, All India Institute of Medical Sciences, New Delhi 110029, India. (5)Department of Hepatology, Postgraduate Institute of Medical Education and Research, Chandigarh 160012, India. (6)Institute of Liver and Biliary Sciences, VasantKunj, New Delhi 110070, India. (7)Department of Gastroenterology, SC Medical College, Cuttack 753007, India. (8)Department of Gastroenterology, Bombay Hospital, Mumbai 400020, India. (9)Department of Gastroenterology, Bombay Hospital, Mumbai 400020, India. (9)Department of Gastroenterology, Banasa Hindu University, Varanasi 221005,India. (11)Department of Gastroenterology, Gastroenterology, Banasa Hindu University, Varanasi 221005,India. (11)Department of Gastroenterology, Goabal Hospital, Mumbai 400026, India. (12)Department of Gastroenterology, Global Hospital, Mumbai400078, India. (13)Department of Gastroenterology, Global Hospital, Hyderabad500004, India. (14)Department of Gastroenterology, Artemis Hospital, Gurgaon 122001, India. (15)Department of Gastroenterology, Jaslok Hospital, Mumbai 400026, India. (16)Department of Gastroenterology, CMB Hospital, and MaulanaAzad Medical College, New Delhi 110002, India. (17)Department of Hepatology,Lakeshore Hospital, Cochin 682304, India. (18)Department of Gastroenterology, GB Pant Hospital, New Delhi 110002, India. (19)Department of Gastroenterology, CMB Pant Hospital, New Delhi 110002, India. (19)Department of Gastroenterology, Christian Medical College, Vellore 632004, India. (20)Department of Sastroenterology, Army Hospital (R & R), New Delhi 110010, India. Overall prevalence of HCV infection in India has been estimated to be approximately 1.3% in the general population. Recent introduction of sofosbuvir in India at a relatively affordable price has led to great optimism about prospects of cure for these patients. This drug is likely to form the backbone of current and future treatment regimes for HCV infe		
374.	Qian P(1), He XC(1), Paulson A(1), Li Z(2), Tao F(2), Perry JM(1), Guo F(1), ZhaoM(1), Zhi L(3), Venkatraman A(4), Haug JS(1), Parmely T(1), Li H(1), DobrowskyRT(5), Ding WX(6), Kono T(7), Ferguson- Smith AC(8), Li L(9). The Dlk1-Gtl2 Locus Preserves LT-HSC Function by Inhibiting the PI3K-mTOR Pathwayto Restrict Mitochondrial Metabolism. Cell Stem Cell. 2015 Nov 23. pii: S1934-5909(15)00499-3. doi:	PMID: 26627594	INT
	<ul> <li>10.1016/j.stem.2015.11.001.</li> <li>(1)Stowers Institute for Medical Research, Kansas City, MO 64110, USA. (2)Stowers Institute for Medical Research, Kansas City, MO 64110, USA; Department of Pathology and Laboratory Medicine, University of Kansas Medical Center, KansasCity, KS 66160, USA. (3)Department of Immunology, Tianjin Key Laboratory ofCellular and Molecular Immunology, Key Laboratory of Immuno Microenvironment and Disease of the Educational Ministry, Tianjin Medical University, Tianjin, P.R. China. (4)Centre for Stem Cell Research, Christian Medical College, Vellore, 632002, India. (5)Department of Pharmacology and Toxicology, University</li> </ul>		

PMID - PUBMED ID; PMCID - PUBMEDCENTRAL ID; WOS - WEB OF SCIENCE ID

	of Kansas, Lawrence, KS 66045, USA. (6)Department of Pharmacology, Toxicology andTherapeutics, University of Kansas Medical Center, Kansas City, KS 66160, USA. (7)Department of Bioscience, Tokyo University of Agriculture, Tokyo 156-8502, Japan. (8)Department of Genetics, University of Cambridge, Downing Street, Cambridge CB2 3EG, UK. (9)Stowers Institute for Medical Research, Kansas City, MO64110, USA; Department of Pathology and Laboratory Medicine, University of KansasMedical Center, Kansas City, KS 66160, USA. Electronic address: <u>lil@stowers.org</u> . The mammalian imprinted Dlk1-Gtl2 locus produces multiple non-coding RNAs (ncRNAs) from the maternally inherited allele, including the largest miRNA cluster in the mammalian genome. This locus has characterized functions in some types of stem cell, but its role in hematopoietic stem cells (HSCs) is unknown. Here, we show that the Dlk1-Gtl2 locus plays a critical role in preserving long-term repopulating HSCs (LT-HSCs). Through transcriptome profiling in 17 hematopoietic cell types, we found that ncRNAs expressed from the Dlk1-Gtl2 locus are predominantly enriched in fetal liver HSCs and the adult LT- HSC population and sustain long-term HSC functionality. Mechanistically, the miRNA mega-cluster within the Dlk1-Gtl2 locus suppresses the entire PI3K-mTOR pathway. This regulation in turn inhibits mitochondrial biogenesis and metabolic activity and protects LT-HSCs from excessive reactive oxygen species (ROS) production. Ourdata therefore show that the imprinted Dlk1-Gtl2 locus preserves LT-HSC function by restricting mitochondrial metabolism.		
375.	Raghupathy, V., Amirtharaj, G. J., Kini, A., Vanaparthi, S., Venkatraman, A. and Ramachandran, A. Enteral glutamine differentially regulates Nrf 2 along the villus-crypt axis of the intestine to enhance glutathione levels Journal of Gastroenterology and Hepatology. 2015;30(12):1740-7. doi: 10.1111/jgh.13019 BACKGROUND AND AIM: Glutamine is an important energy source for the intestinal epithelium, and its supplementation protects intestinal epithelial cells by induction of glutathione. However, mechanisms of glutathione induction in cells at various stages of differentiation along the crypt to villus axis are not well understood. This study examined induction of glutathione in response to glutamine along the intestinal villus- crypt axis and evaluated regulatory mediators involved in the process. METHODS: Animals were administered 4% glutamine in feed for 7 days, following which enterocytes at various stages of differentiation were isolated and glutathione levels as well as signalling mediators involved in its regulation were studied. RESULTS: In control animals, glutathione levels were higher in the intestinal crypt than the villus or middle region. This was accompanied by elevated expression of the modifier subunit of glutathione synthetase (GCLM) and the transcription factor Nrf2 when compared to cells from the villus and middle regions. These levels were further enhanced by glutamine throughout the intestine, though the effects were more dramatic in the crypt. In parallel to glutathione induction, glutamine supplementation also altered actin dynamics and proliferation in cells of the crypt. CONCLUSIONS: These results suggest that the variation of glutathione levels along the villus-crypt axis in the intestine is due to gradients in expression of mediators such as GCLM and Nrf2. The protective effects of glutamine supplementation seem to be most pronounced in the crypt, where it upregulates proliferation, glutathione levels and alters actin dynamics. Address: The Wellcome Trust Research Laboratory, Division o	PMID: 26095579 WOS:000367673200012	INT
376.	Raj JP(1), Oommen AM(2), Paul TV(3). Dietary calcium intake and physical activity levels among urban South Indian postmenopausal women.	PMC4535115, 26288793	NAT
	bictary calcium intake and physical activity levels among urban south indian posthenopausal wonten.	20200795	

	J Family Med Prim Care. 2015 Jul-Sep;4(3):461-4. doi: 10.4103/2249-4863.161355. Author information: (1)CSI Hospital, Erode, Christian Medical College, Vellore, Tamil Nadu, India. (2)Department of Community Medicine, Christian Medical College, Vellore, TamilNadu, India. (3)Department of Endocrinology, Christian Medical College, Vellore, Tamil Nadu, India. INTRODUCTION: Calcium is the most abundant mineral in our body with varied functions and its dietary deficiency leads to osteoporosis, besides playing a significant role in the pathogenesis of other diseases. The data regarding dietary calcium intake (DCI) among postmenopausal women in urban areas of SouthIndia is limited. OBJECTIVES: This study was aimed to assess DCI and physical activity among postmenopausal women. The risk factors for a low intake of dietary calcium were also assessed. MATERIALS AND METHODS: A cross-sectional study was done among 106 postmenopausal women selected by systematic random sampling from the city of Erode, Tamil Nadu, India. DCI and physical activity were measured using validated questionnaires. RESULTS: The mean DCI was 632.72 ± 28.23 mg/day. The proportion of women consuming less than 800 mg/day of dietary calcium was 74.5%. Only 10.4% of thewomen studied (11 out of 106) were on calcium supplements while 55% had lowphysical activity. A low knowledge score [adjusted odds ratio (OR): 5.17; 95%confidence interval (CI): 1.31-20.42] and a low socioeconomic status (SES) scored the family (adjusted OR: 4.00; 95% CI: 1.32-12.11) were significantly associated with low DCI after adjusting the age, dietary preferences, and educational and occupational statuses. CONCLUSIONS: DCI was below the Recommended Dietary Allowance (RDA) and the majority of postmenopausal women were physically inactive, indicating the need for better education regarding DCI and the need for calcium supplements and physical activity, all of which can contribute to the prevention of the consequences of osteoporosis.		
377. 378.	<ul> <li>Rajat, R., Deepu, D., Jonathan, A. J. and Prabhakar, A. K.</li> <li>Duodenal Perforation Precipitated by Scrub Typhus</li> <li>J Glob Infect Dis; 2015, 7 (2): 87-8</li> <li>Scrub typhus is an acute febrile illness usually presenting with fever, myalgia, headache, and a pathognomonic eschar. Severe infection may lead to multiple organ failure and death. Gastrointestinal tract involvement in the form of gastric mucosal erosions and ulcerations owing to vasculitis resulting in gastrointestinal bleeding is common. This process may worsen a pre-existent asymptomatic peptic ulcer, causing duodenal perforation, and present as an acute abdomen requiring surgical exploration. We report the case of a patient with no previous symptoms or risk factors for a duodenal ulcer, who presented with an acute duodenal perforation, probably precipitated by scrub typhus infection.</li> <li>Address: Department of General Surgery, Christian Medical College, Vellore, Tamil Nadu, India.</li> <li>Rajkumar AP(1), Mohan TS(2), Tharyan P(3).</li> <li>Lessons from the 2004 Asian tsunami: Nature, prevalence and determinants ofprolonged grief disorder among tsunami survivors in South Indian coastal villages.</li> <li>Int J Soc Psychiatry. 2015 Nov;61(7):645-52. doi: 10.1177/0020764015570713. Epub 2015 Feb 16.</li> </ul>	PMID: 26069430 4448332: 4448332 PMID: 25687577	NAT
	Author information: (1)Department of Psychiatry, Christian Medical College, Vellore, India Department of Biomedicine, Aarhus University, Aarhus, Denmark apr@biomed.au.dk. (2)Department of Psychiatry, Christian Medical College,		

	Vellore, India University of Adelaide, Adelaide, SA, Australia. (3)Department of Psychiatry, Christian Medical College, Vellore, India.		
	BACKGROUND: Prolonged grief disorder (PGD), previously called complicated grief, is associated with significant distress and long-term disability, and it may complicate assessments for post-traumatic stress disorder (PTSD) after traumatic events. METHODS: In order to distinguish PGD from PTSD, we conducted a		
	cross-sectional survey among tsunami survivors in five tsunami-affected coastal villages in India, 9months		
	after the Asian tsunami. RESULTS: Prevalence of PGD among 643 tsunami survivors was 14.2% (95% confidence		
	interval (CI): 11.5%-16.9%) and among the 351 bereaved survivors was 25.9% (95% CI: 21.3%-30.5%). Spousal bereavement, extensive damage to homes, fewer years of education, and absence of tsunami-		
	related physical injury differentiated those with PGD, after adjusting for potential confounders (p<.05).		
	These factors were distinct from the factors associated with post-traumatic stress symptoms (PTSS) among these survivors. Scores on the avoidance, hyper-arousal and intrusion subscales of the Impact of Events Scale-Revised were significantly lower in those with PGD alone than in those with PTSS or with both disorders. CONCLUSION: Our findings support the validity of PGD in a non-Western post-disaster community and its distinctness from PTSD. They have important public health implications in planning responses to natural disasters and for future revisions of diagnostic classifications.		
379.	Rajkumar AP(1), Senthilkumar P(2), Gayathri K(2), Shyamsundar G(2), Jacob KS(2). Associations Between the Macroeconomic Indicators and Suicide Rates in India: Two Ecological Studies.	PMID: 26664075	NAT
	Indian J Psychol Med. 2015 Jul-Sep;37(3):277-81. doi: 10.4103/0253-7176.162917.		
	Department of Psychiatry, Christian Medical College, Vellore, Tamil Nadu, India ; Department of Biomedicine, Aarhus University, Aarhus, Denmark. (2)Department of Psychiatry, Christian Medical College, Vellore, Tamil Nadu, India.		
	BACKGROUND: While western studies have focused on the importance of psychiatric illnesses in the complex pathways leading to suicides, several Indian studies have highlighted the important contributions by economic, social, and cultural factors. Hence, we tested the hypothesis that annual national suicide rates and suicide rates of the different states in India were associated with macroeconomic indices. MATERIALS AND METHODS: Data from the National crime records bureau, Ministry of finance, labour bureau, Government of India, population commission, and planning commission official portals, World Bank and the United Nations were accessed. We assessed the correlations of annual national and state-wise suicide rates with macroeconomic, health, and other indices using ecological study design for India, and for its different states and union territories. RESULTS: We documented statistically significant associations between the suicide rates and per capita gross domestic product, consumer price index, foreign exchange, trade balance, total health expenditure as well as literacy rates. CONCLUSIONS: As recent economic growth in India is associated with increasing suicide rates, macroeconomic policies emphasizing equitable distribution of resources may help curtailing the population suicide rates in India.		
380.	Rajkumar AP(1), Smith A(2), Greaves S(2), Duggal A(2), Bandyopadhyay D(2). Does midlife obesity really lower dementia risk?	PMID: 26138165 WOS:000357419500013	INT

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	Lancet Diabetes Endocrinol. 2015 Jul;3(7):500-1. doi: 10.1016/S2213-8587(15)00215-6. Author information: (1)Mental Health of Older Adults and Dementia Clinical Academic Group, SouthLondon and Maudsley NHS Foundation Trust, London, SE25 6LL, UK; Wolfson Centre for Age Related Diseases, Institute of Psychiatry, Psychology, & Neuroscience, King's College, London, UK; Department of Biomedicine, Aarhus University, Aarhus, Denmark; Department of Psychiatry, Christian Medical College, Vellore, India. Electronic address: Anto.Rajamani@slam.nhs.uk. (2)Mental Health of Older Adults and Dementia Clinical Academic Group, South London and Maudsley NHS Foundation Trust, London, SE25 6LL, UK. Comment in Lancet Diabetes Endocrinol. 2015 Jul;3(7):501-2. Comment on Lancet Diabetes Endocrinol. 2015 Jun;3(6):431-6.		
381.	Rajshekhar V(1). Surgery for brain tuberculosis: a review. Acta Neurochir (Wien). 2015 Oct;157(10):1665-78. doi: 10.1007/s00701-015-2501-x. Epub 2015 Jul 14. Author information: (1)Department of Neurological Sciences, Christian Medical College Hospital, Vellore, 632004, India. rajshekhar@cmcvellore.ac.in. The two main manifestations of brain tuberculosis that require surgery are hydrocephalus associated with tuberculous meningitis (TBMH) and brain tuberculomas. TBMH most often responds to medical therapy but surgery is requiredpromptly for those who fail medical therapy. Both ventriculoperitoneal (VP) shuntand endoscopic third ventriculostomy (ETV) are valid options although the latter is more often successful in patients with chronic hydrocephalus than in thosewith acute meningitis. Patients With TBMH are more prone to complications following VP shunt than other patients. The outcome of these patients is determined by the Vellore grade (I to IV) of the patients prior to surgery with those in good grades (I and II) having a better outcome and those in the worst grade (IV) having a high mortality in excess of 80 %. Patients with brain tuberculomas present clinically with features of a brain mass, indistinguishable clinically from other pathologies. CT and MR features might provide a probable diagnosis of a tuberculoma but most often a histological diagnosis is desirable. Empiric medical therapy is reserved for a small number of patients. Although the treatment of brain tuberculomas is essentially medical, surgery is required when the diagnosis is in doubt, to reduce raised intracranial pressure or local mass effect and to obtain tissue for culture and sensitivity studies. Stereotactic biopsy, stereotactic craniotomy and excision of superficial small tuberculomas and microsurgery are all procedures used to manage brain tuberculomas. The outcome in patients with brain tuberculomas is good if the tuberculous bacillus is sensitive to the anti-tuberculous therapy. The duration of therapy is debated but we suggest at	PMID: 26170188 WOS:000361389600007	INT
382.	Rajshekhar V(1). Neurosurgery: A legacy of excellence. Neurol India. 2015 Jul-Aug;63(4):468-75. doi: 10.4103/0028-3886.161966.	PMID: 26238874 WOS:000359402000002	NAT

	Author information: (1)Department of Neurological Sciences, Christian Medical College Hospital, Vellore, Tamil Nadu, India. Neurosurgeons are often identified with traits such as arrogance and hubris. However, the true legacy of neurosurgeons is excellence. Harvey Cushing, the pioneering neurosurgeon of the United States, is largely responsible for this legacy of excellence. Eminent personalities have agreed that sincere and hard work is necessary to achieve excellence. Excellence in neurosurgery in the domains of surgical work and research will be discussed in the article. Excellence in surgical work should be measured comprehensively and over long follow-up periods using tools such as functional outcomes and quality of life instruments besides morbidity and mortality. For excellence in neurosurgical research, one can use the help of indices such as the h-index and i10 index. No single measure, whether for surgical excellence or excellence in research, however, incorporates a measure of qualities such as empathy, integrity and mentorship. These intangible qualities should be an integral part of the assessment of a neurosurgeon and his/her work. Cushing's attributes of meticulous record keeping, attention to detail, and maximal utilization of opportunities should guide us in our pursuit of excellence. In recent years, it has been suggested that excellence is not the result of an innate talent but can be aspired to by anyone willing to adopt a work ethic that involves several hours of "deliberate practice," feedback and passion. Neurosurgeons should continue to pursue the legacy of Cushing especially in present times when medical professionals are frequently depicted as being driven more by avarice than by Hippocratic principles.		
383.	Ralph, R., Peter, J. V., Chrispal, A., Zachariah, A., Dian, J., Sebastian, T., Venkatesh, B. and Thomas, K. Supraphysiological 25-hydroxy vitamin D3 level at admission is associated with illness severity and mortality in critically ill patients J Bone Miner Metab; 2015, 33 (2): 239-43 We studied the association between admission serum 25-hydroxy vitamin D3 level and in-hospital mortality in a prospective cohort of critically ill patients admitted to the medical intensive care unit of a tertiary care referral center. Of the 180 patients enrolled, 129 were included. Vitamin D3 deficiency was observed in 37% (n = 48) and supra-physiological levels (>/=250 nmol/L) in 15.5% (n = 20). Patients with supraphysiological vitamin D3 levels were grouped as outliers. There was no difference in mortality (p = 0.41) between vitamin D3 deficient (21/48) and non-deficient (36/81) patients in analysis with and without outliers. Patients with vitamin D3 >/=250 nmol/L had a significantly higher (p = 0.02) Simplified Acute Physiology Score (SAPS) II and mortality (p = 0.03) [mean (SD) 60.1 +/- 17.1 and 75% (15/20), respectively] when compared with the rest [45.6 +/- 18 and 38.5% (42/109), respectively]. The sensitivity, specificity and SAPS II independent odds ratio to predict mortality in patients with supraphysiological vitamin D3 levels were 26.3, 93.1 and 3.7% (95% confidence interval 1.2-11.4; p = 0.03), respectively. In conclusion, vitamin D3 deficiency in our cohort was not associated with mortality. Extrinsic factors interfering with test results were ruled out. A biological hypothesis to explain this observation is proposed. Further clarification of mechanisms leading to this observation is warranted. Address: Department of Medicine, Christian Medical College Hospital (CMCH), Vellore, India, ravikar ralph@yahoo.com.	PMID: 24752822 WOS:000350697000015	INT
384.	Ramakrishna, B. S., Makharia, G. K., Ahuja, V., Ghoshal, U. C., Jayanthi, V., Perakath, B., Abraham, P., Bhasin, D. K., Bhatia, S. J., Choudhuri, G., Dadhich, S., Desai, D., Goswami, B. D., Issar, S. K., Jain, A. K., Kochhar, R., Loganathan, G., Misra, S. P., Ganesh Pai, C., Pal, S., Philip, M., Pulimood, A., Puri, A. S., Ray, G., Singh, S. P., Sood, A. and Subramanian, V.	PMID: 25772856	NAT
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	Indian Society of Gastroenterology consensus statements on Crohn's disease in India <u>Indian Journal of Gastroenterology</u> . 2015 Jan; 34(1): 3-22 In 2012, the Indian Society of Gastroenterology's Task Force on Inflammatory Bowel Diseases undertook an exercise to produce consensus statements on Crohn's disease (CD). This consensus, produced through a modified Delphi process, reflects our current recommendations for the diagnosis and management of CD in India. The consensus statements are intended to serve as a reference point for teaching, clinical practice, and research in India. Address: Christian Medical College, Vellore, 632 004, India, wurama@hotmail.com.		
385.	Ramasamy A(1), Das S(2), Mani V(3), Sengottuvelu S(4), Vinoth Prabhu V(1). Evaluation of Anti-diarrheal Potential of Hydro-alcoholic Extracts of Leaves of Murraya koenigii in Experimental Animals. J Diet Suppl. 2015 Dec 2:1-8. (1)a Department of Pharmacology , Swamy Vivekanandha College of Pharmacy ,Namakkal , Tamil Nadu , India. (2)b Department of Pharmacology , Christian Medical College , Vellore , Tamil Nadu , India. (3)c Faculty of Pharmacy, Brain Research Laboratory , Universiti Teknologi MARA , Selangor , Malaysia. (4)d Department of Pharmacology , Nandha College of Pharmacy , Erode , Tamil Nadu ,India. BACKGROUND: The indigenous medical system of India mentions the use of Murrayakoenigii leaves for the treatment of different types of diarrheas over ages.OBJECTIVE: To evaluate the anti-diarrheal activity of hydro-alcoholic extracts ofleaves of Murraya koenigii and to check its effects on intestinal transits inexperimental rat model.MATERIALS AND METHODS: The hydro-alcoholic extract of Murraya koenigii leaves was obtained with Soxhlet extraction method. Animals were divided into four groups (n= 6) receiving daily for three consecutive days: vehicle, standard drug atropine (3mg/kg, i.p.), leaf extracts 200 & 400 mg/kg respectively in oral route. Effects of the drugs on normal defecation were noted and then castor oil induced diarrheawas used to evaluate the effect of the extract on stool frequency and consistency. Finally, charcoal meal test was used to evaluate the effect of the extract on stool frequency and consistency. Finally, charcoal meal test was used to evaluate the effect of the extracts in 200 and 400 mg/kg dose reduced stoolfrequency, increased stool consistency and increased small intestinal transittime. CONCLUSION: Hydro-alcoholic extract of Murraya koenigii leaves possesses significant anti-diarrheal activity due to its inhibitory effect on gastrointestinal motility, making it useful for a wide number of gastrointestinal diseases.	PMID: 26631977	NAT
386.	Ramasamy T, Kim J, Yong C, Umadevi K, Rana D, Jimenez C, et al. Novel Core-Shell Nanocapsules for the Tunable Delivery of Bioactive rhEGF: Formulation, Characterization and Cytocompatibility Studies. Journal of Biomaterials and Tissue Engineering. 2015;5(9):730-43. doi: 10.1166/jbt.2015.1385 <u>http://dx.doi.org/10.1166/jbt.2015.1385</u>	WOS:000365554900008.	INT
387.	Rana D, Ramalingam M. Designer Cell-laden Polyacrylamide-alginate Gels for Stem Cell Delivery. Tissue Engineering Part a. 2015;21:S103-S.	WOS:000360205201006	INT
388.	Ranjan A(1), Raj LE(2), Kumar D(3), Sandhya P(4), Danda D(4). Reliability of Box and Block Test for manual dexterity in patients with	26171869	INT

	rheumatoid arthritis: a pilot study.		
	Int J Rheum Dis. 2015 Jul 14. doi: 10.1111/1756-185X.12655. [Epub ahead of print]		
	Author information: (1)School of Health Systems Studies, Tata Institute of Social Sciences, Mumbai, India. (2)Department of Physical Medicine and Rehabilitation, Christian Medical College, Vellore, India. (3)Department of Community Health and Development, Christian Medical College, Vellore, India. (4)Department of Clinical Immunology & Rheumatology, Christian Medical College, Vellore, India.		
	OBJECTIVE: This study is aimed to determine the reliability of the Box and Block (B&B) Test for manual dexterity of upper extremity function in patients with rheumatoid arthritis (RA) and to compare the results with age- and sex-matched healthy controls, and also with available normative data. METHODS: The reliability of B&B Test was assessed within and between testers using the intraclass correlation coefficient (ICC) in patients with RA attending rheumatology clinics of Christian Medical College Hospital, India. The dexterity scores of patients were then compared with age- and sex-matched controls and the Mathiowetz's population-based normative data by Student's independent t-test. RESULTS: The interrater and intrarater reliability of the B&B Test in patients with RA (n = 60) ranged from 0.92 to 0.97 and 0.91 to 0.95, respectively. The dexterity scores in patients with RA were lower as compared to the control group (dominant hand 54.87 vs. 68.18, P < 0.001; contralateral hand 52.65 vs. 65.6, P < 0.001) and population-based normative score (dominant hand 54.87 vs. 80.02, P < 0.001; contralateral hand 52.65 vs. 77.23; P < 0.001). The control group scores were also lower than the normative data. Higher age of patient, longer disease duration and higher disease activity reflected by Disease Activity Score of 28 joints (DAS-28) also correlated well with lower dexterity score. CONCLUSIONS: The B&B Test is a reliable tool for assessing upper extremity function in patients with RA and the dexterity scores are lower for RA patients. The scores had correlation with age, disease duration and disease activity.		
389.	Rao RA(1), Dhele N(2), Cheemadan S(3), Ketkar A(2), Jayandharan GR(3), Palakodeti D(2), Rampalli S(2). Ezh2 mediated H3K27me3 activity facilitates somatic transition during human pluripotent reprogramming. Sci Rep. 2015 Feb 4;5:8229. doi: 10.1038/srep08229.	PMCID: PMC4316165 PMID: 25648270 WOS:000348768100001	INT
	Author information: (1)1] Centre For Inflammation and Tissue Homeostasis, Institute for Stem Cell Biology and Regenerative Medicine (inStem), National Centre for Biological Sciences, GKVK Campus, Bellary Road, Bangalore 560065, Karnataka, India [2] Sastra University, Tirumalaisamudram, Thanjavur - 613 401, TamilNadu, India. (2)Centre For Inflammation and Tissue Homeostasis, Institute for Stem Cell Biology and Regenerative Medicine (inStem), National Centre for Biological Sciences, GKVK Campus, Bellary Road, Bangalore 560065, Karnataka, India. (3)Department of Hematology and Centre for Stem Cell Research, Christian Medical College, Vellore - 632004, TamilNadu, India.		
	Factor induced reprogramming of fibroblasts is an orchestrated but inefficient process. At the epigenetic level, it results in drastic chromatin changes to erase the existing somatic "memory" and to establish the pluripotent state. Accordingly, alterations of chromatin regulators including Ezh2 influence Ipsc generation. While the role of individual transcription factors in resetting the chromatin landscape during iPSC generation		

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	4413140: 4413140 PMCID: PMC4668483

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	It is characterized by thickened, dry, rough and armor like plates of skin with deep cracks in between. Alternative names for HI include- keratosis diffusafetalis, ichthyosis congenital, icthyosis fetalis, harlequin fetus and icthyosis congenital gravior. It is an autosomal recessive disorder with the majority of affected individuals being homozygous for mutation in the ABCA 12 gene. This condition presents with a wide range of severity and symptoms. Affected neonates usually do not survive beyond first few days of life. We are presenting prenatal diagnosis of a case of this rare condition.		
392.	Reddy SK(1), Jahan A(2), Chaturvedi S(3), Agarwal I(1). Plasma exchange for paediatric kidney disease-indications and outcomes: a single-centre experience.	PMID: 26613028	INT
	Clin Kidney J. 2015 Dec;8(6):702-7. doi: 10.1093/ckj/sfv084. Epub 2015 Sep 3.		
	(1)Department of Paediatric Nephrology, Child Health 2, Christian Medical College, Vellore, India. (2)Department of Paediatric Nephrology, Christian Medical College, Vellore, India. (3)Department of Paediatrics, Khoo Teck Puat-National University Children's Medical Institute, National University Health System, Singapore, Singapore.		
	BACKGROUND: Outcome data in paediatrics regarding the use of plasmapheresis for immunological kidney disease are scarce. OBJECTIVES: We aimed to evaluate the role of plasmapheresis in children presenting with severe renal impairment secondary to immunological kidney diseases. METHODS: A retrospective chart review of children admitted between January 2009 and August 2013 to the Paediatric Nephrology Unit, Christian Medical College, Vellore, India, and requiring plasma exchange was undertaken. Demographic and clinical data were studied and descriptive statistics applied for analysis. RESULTS: Sixteen children underwent plasmapheresis with a male:female ratio of 10:6 and a mean age of 10.2 years (range 5-15 years). Twelve children had atypical haemolytic uraemic syndrome, two had anti-glomerular basement disease and one each had lupus nephritis with neurological manifestation and anti-nuclear cytoplasmic antibody-associated vasculitis. The mean serum creatinine at presentation was 6.52 [interquartile range (IQR) 4.96-7.85] mg/dL with a mean eGFR of 43 (IQR 27.54-56.7) mL/min/1.73 m(2). Other presenting features included nephrotic range proteinuria (69%), gross haematuria (27%), hypertension (94%) and seizures (37.5%). All children received 1.5 times plasma volume plasmapheresis (mean 11 sessions, range 5-26), dialysis and immunosuppressive therapy. The mean duration of follow-up was 4 months (range 2-24 months) with a majority of the children (15/16, 93.75%) surviving acute illness. One child died of overwhelming sepsis and another was lost to follow-up. Of the survivors, eight had eGFR >60 mL/min/1.73 m(2), while eGFR was 15-60 mL/min/1.73 m(2) in the remaining six children. Eight children were still requiring antihypertensive medications and two were continuing peritoneal dialysis at the last follow-up. Thus early introduction of plasmapheresis along with other supportive therapy in immunological kidney disease may improve outcome.		
393.	Revanappa, K. K., Moorthy, R. K., Jeyaseelan, V. and Rajshekhar, V. Modification of Nurick scale and Japanese Orthopedic Association score for Indian population with cervical spondylotic myelopathy Neurol India; 2015, 63 (1): 24-9 AIMS: Existing scales for functional grading of patients with cervical spondylotic myelopathy (CSM), such as	PMID: 25751465 WOS:000351634700007	NAT
	the Nurick scale and modified Japanese Orthopedic Association (mJOA) scale, do not address certain culture- specific activities of the Indian population while grading patients with CSM. MATERIALS AND METHODS: We		

	modified the Nurick scale and mJOA scale to develop the Indian modifications of Nurick (imNurick) and mJOA scales (imJOA and imJOA scales), respectively, and then evaluated these modified scales in 93 patients with CSM to determine whether these modifications had a meaningful impact on the functional scores of these patients. RESULTS: There was good interobserver agreement in the assessments documented in all the four scales (Nurick grade, imNurick grade, mJOA scale, and imJOA scale) (kappa = 1). Both Nurick grading ( $z = 4.4$ , P = 0.00) and imNurick grading ( $z = 5.5$ , P = 0.00) had a valid construct when tested against lower limb mJOA (IImJOA) score. The Indian modified upper limb JOA (imulmJOA) score too had a good construct with modified upper limb JOA (umJOA) score ( $z = 2.5$ , P = 0.01). There was substantial agreement between Nurick grade and imNurick grade (weighted kappa of 0.75) when taken as a whole group and between ulmJOA scores and imulmJOA scores (weighted kappa of 0.75). However, there was significant disagreement between the Nurick grade and imNurick grade scales in patients who were Nurick grade 2 and 3 (kappa = 0.07). CONCLUSIONS: The proposed Indian modifications of Nurick grade and mJOA scale that incorporate the ethnic practices of the Indian population and some Asian population are better discriminators of different levels of functional ability among patients with CSM in this population, as compared to the existing Nurick grading and mJOA scale.		
394.	Rogawski ET(1), Meshnick SR(1), Becker-Dreps S(2), Adair LS(3), Sandler RS(4), Sarkar R(5), Kattula D(5),	PMID: 26621194	INT
	Ward HD(6), Kang G(5), Westreich DJ(1).		
	Reduction in diarrhoeal rates through interventions that prevent unnecessary antibiotic exposure early in life in an observational birth cohort.		
	J Epidemiol Community Health. 2015 Nov 30. pii: jech-2015-206635. doi: 10.1136/jech-2015-206635. [Epub ahead of print]		
	(1)Department of Epidemiology, UNC-Chapel Hill, Chapel Hill, North Carolina, USA. (2)Department of Family Medicine, UNC-Chapel Hill, Chapel Hill, North Carolina, USA. (3)Department of Nutrition, UNC-Chapel Hill, Chapel Hill, North Carolina, USA. (4)Department of Epidemiology, UNC-Chapel Hill, Chapel Hill, North Carolina, USA Department of Medicine, UNC-Chapel Hill, Chapel Hill, North Carolina, USA. (5)Division of Gastrointestinal Sciences, Christian Medical College, Vellore, Tamil Nadu, India. (6)Division of Gastrointestinal Sciences, Christian Medical College, Vellore, Tamil Nadu, India Division of Geographic Medicine and Infectious Diseases, Tufts Medical Center, Boston, Massachusetts, USA.		
	BACKGROUND: Antibiotic treatment early in life is often not needed and has been associated with increased rates of subsequent diarrhoea. We estimated the impact of realistic interventions, which would prevent unnecessary antibiotic exposures before 6 months of age, on reducing childhood diarrhoeal rates. METHODS: In data from a prospective observational cohort study conducted in Vellore, India, we used the parametric g-formula to model diarrhoeal incidence rate differences contrasting the observed incidence of diarrhoea to the incidence expected under hypothetical interventions. The interventions prevented unnecessary antibiotic treatments for non-bloody diarrhoea, vomiting and upper respiratory infections before 6 months of age. We		
	also modelled targeted interventions, in which unnecessary antibiotic use was prevented only among children who had already stopped exclusive breast feeding. RESULTS: More than half of all antibiotic exposures before 6 months (58.9%) were likely unnecessary. The incidence rate difference associated with removing unnecessary antibiotic use before 6 months of age was -0.28 (95% CI -0.46 to -0.08) episodes per 30 childmonths. This implies that preventing unnecessaryantibiotic exposures in just 4 children would reduce the incidence of diarrhea by 1 from 6 months to 3 years of age. CONCLUSIONS: Interventions to reduce unnecessary antibiotic use among youngchildren could result in an important reduction in diarrhoeal rates.		

	This workprovides an example application of statistical methods which can further the aim of presenting epidemiological findings that are relevant to public health practice.		
395.	Rogawski ET(1), Westreich DJ(2), Adair LS(3), Becker-Dreps S(4), Sandler RS(5), Sarkar R(6), Kattula D(6), Ward HD(7), Meshnick S(2), Kang G(6). Early Life Antibiotic Exposure Is Not Associated with Growth in Young Children of Vellore, India.	PMID: 26372535 WOS:000363550300028.	INT
	J Pediatr. 2015 Nov;167(5):1096-102.e3. doi: 10.1016/j.jpeds.2015.08.015. Epub 2015 Sep 12.		
	Author information: (1)Department of Epidemiology, University of North Carolina-Chapel Hill, Chapel Hill, NC. Electronic address: rogawski@virginia.edu. (2)Department of Epidemiology, University of North Carolina-Chapel Hill, Chapel Hill, NC. (3)Department of Nutrition, University of North Carolina-Chapel Hill, Chapel Hill, NC. (4)Department of Family Medicine, University of North Carolina-Chapel Hill, Chapel Hill, NC. (5)Department of Epidemiology, University of North Carolina-Chapel Hill, NC; Department of Medicine, University of North Carolina-Chapel Hill, Chapel Hill, NC; Department of Medicine, University of North Carolina-Chapel Hill, NC. (6)Division of Gastrointestinal Sciences, Christian Medical College, Vellore, India. (7)Division of Gastrointestinal Sciences, Christian Medical College, Vellore, India; Division of Geographic Medicine and Infectious Diseases, Tufts Medical Center, Boston, MA.		
	OBJECTIVES: To estimate the effects of antibiotic exposures in the first 6 months of life on short- and long- term growth. STUDY DESIGN: In a prospective observational cohort study of 497 children from Vellore, India, we estimated short-term effects of antibiotics during the first 6 months using longitudinal general linear regression to model weight-for-age, height-for-age, and weight-for-height z-scores in monthly intervals. To estimate long-term effects, we modeled growth from 6 months to 3 years as a function of antibiotic use in the first 6 months. We also estimated the effects of antibiotics on the monthly relative risks of underweight, stunting, and wasting in the first 6 months and to 3 years. RESULTS: Underweight, stunting, and wasting were common in this population: 31%, 32%, and 15% on average after 6 months of age, respectively. There was no association between antibiotic exposures before 6 months and growth during that period. From 6 months to 3 years, adjusted absolute differences in weight and height were small (approximately -100 g and no more than -2 mm overall, respectively) and not statistically significant. CONCLUSIONS: Antibiotic exposures early in life were not associated with increased or decreased growth. The combination of malnutrition and recurrent illness likely complicate the relationship between antibiotic exposures and growth among children in low and middle-income countries. Copyright © 2015 Elsevier Inc. All rights reserved.		
396.	Rogawski, E. T., Westreich, D. J., Becker-Dreps, S., Adair, L. S., Sandler, R. S., Sarkar, R., Kattula, D., Ward, H. D., Meshnick, S. R. and Kang, G. Antibiotic treatment of diarrhoea is associated with decreased time to the next diarrhoea episode among young children in Vellore, India International Journal of Epidemiology. 2015;44(3):978-87. doi: 10.1093/ije/dyv040	PMID: 25929259 WOS:000359702200032	INT
	BACKGROUND: Antibiotics are commonly given for the treatment of childhood diarrhoea, but are not indicated in most cases. Antibiotics modify the gastrointestinal microbiota, which may have unanticipated effects on the risk of subsequent diarrhoea. METHODS: In a prospective observational cohort study, we assessed the effect of caregiver-reported antibiotic treatment for diarrhoea on the timing of a child's next episode among 434 children followed from birth to 3 years of age in Vellore, India. We estimated median time differences and time ratios from inverse probability of exposure-weighted Kaplan-Meier curves for the		

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	time to next diarrhoea episode, comparing children who did and did not receive antibiotics for the previous episode. RESULTS: Study children had more than five diarrhoea episodes on average in the first 3 years of life, and more than a quarter of all episodes were treated with antibiotics. Children who received antibiotics for their first diarrhoea episode had their second episode on average 8 weeks earlier (median time difference: -8, 95% confidence interval: -10, -3) than children who did not receive antibiotics. The effects of antibiotics on subsequent diarrhoea were greatest at earlier episodes and younger ages, and cefixime had a slightly larger effect compared with cotrimoxazole. CONCLUSIONS: Antibiotic treatment of diarrhoea was associated with reduced time to a subsequent diarrhoea episode, especially among younger infants. Whereas rational use of antibiotics has been advocated to reduce antimicrobial resistance in populations, we show that overuse of antibiotics may also have a direct adverse effect on individual patients. Address: Department of Epidemiology, Department of Family Medicine, Department of Nutrition, and Department of Medicine (University of North Carolina - Chapel Hill, NC, USA, Division of Gastrointestinal Sciences, Christian Medical College, Vellore, India and Division of Gastrointestinal Sciences, Christian Medical College, Vellore, India and Division of Gastrointestinal Sciences, Christian Medical College, Vellore, India and Division of Gastrointestinal Sciences, Christian Medical College, Vellore, India and Division of Gastrointestinal Sciences, Christian Medical College, Vellore, India e Chapel Hill, NC, USA, Division of Gastrointestinal Sciences, Christian Medical College, Vellore, India and Division of Geographic Medicine and Infectious Diseases, Tufts Medical College, Vellore, India and Division of Geographic Medicine and Infectious Diseases, Tufts Medical College, Vellore, India and Division of Geographic Medicine and Infectious Diseases, Tufts Medical College, Vellore, Univers		
397.	Rogawski, E. T., Westreich, D., Becker-Dreps, S., Adair, L. S., Sandler, R. S., Sarkar, R., Kattula, D., Ward, H. D., Meshnick, S. R. and Kang, G. The effect of early life antibiotic exposures on diarrheal rates among young children in Vellore, India Pediatr Infect Dis J; 2015, 34 (6): 583-8 BACKGROUND: Antibiotic treatment of childhood illnesses is common in India. In addition to contributing to antimicrobial resistance, antibiotics might result in increased susceptibility to diarrhea through interactions with the gastrointestinal microbiota. Breast milk, which enriches the microbiota early in life, may increase the resilience of the microbiota against perturbations by antibiotics. METHODS: In a prospective observational cohort study, we assessed whether antibiotic exposures from birth to 6 months affected rates of diarrhea up to age 3 years among 465 children from Vellore, India. Adjusting for treatment indicators, we modeled diarrheal rates among children exposed and unexposed to antibiotics using negative binomial regression. We further assessed whether the effect of antibiotics on diarrheal rates was modified by exclusive breastfeeding at 6 months. RESULTS: More than half of the children (n = 267, 57.4%) were given at least one course of antibiotics in the first 6 months of life. The adjusted relative incidence rate of diarrhea was 33% higher among children who received antibiotics under 6 months of age compared with those who did not (incidence rate ratio: 1.33, 95% confidence interval: 1.12, 1.57). Children who were exclusively breastfed until 6 months of age did not have increased diarrheal rates following antibiotic use. CONCLUSIONS: Antibiotic exposures early in life were associated with increased rates of diarrhea in early childhood. Exclusive breastfeeding might protect against this negative impact. Address: From the *Department of Epidemiology, daggerDepartment of Family Medicine, double	PMID: 25742244 PMCID:PMC4431927 WOS:000354722300009	INT

	daggerDepartment of Nutrition, section signDepartment of Medicine, UNC-Chapel Hill, North Carolina; paragraph signDivision of Gastrointestinal Sciences, Christian Medical College, Vellore, India; and   Division of Geographic Medicine and Infectious Diseases, Tufts Medical Center, Boston, Massachusetts.		
398.	Rose A(1), Jacob KS(1). Teaching Bioethics in India. Natl Med J India. 2015 Mar-Apr;28(2):61-3.	PMID: 26612145 WOS:000364348800001	NAT
	Author information: (1)Christian Medical College Vellore Tamil Nadu India, <u>ksjacob@cmcvellore.ac.in</u> .		
	Comment in Natl Med J India. 2015 May-Jun;28(3):160.		
399.	Rose A(1), Minz S(2), Manohari GP(2), - T(2), George K(3), Arun R(4), Vinodh A(5). Community perspectives on alcohol use among a tribal population in rural southern India.	PMID: 26724338 WOS:000368217700002	NAT
	Natl Med J India. 2015 May-Jun;28(3):117-21. Author information: (1)Christian Medical College, Vellore 632002, Tamil Nadu, India, anurose@cmcvellore.ac.in. (2)Christian Medical College, Vellore 632002, Tamil Nadu, India. (3)Department of Community Health CHAD, Christian Medical College, Vellore 632002, Tamil Nadu, India. (4)Department of Psychiatry, Christian Medical College, Vellore 632002, Tamil Nadu, India. (5)Don Bosco Social Action and Research Centre, Tirupatur, Tamil Nadu, India.		
	BACKGROUND: Alcohol use is common in many cultures. Excessive use of alcohol adversely impacts individuals, families and communities. Medicine, which uses biomedical models and perspectives, views alcohol dependence as a disease. Alcohol use and dependence are complex societal problems, which need to be viewed through multidisciplinary approaches and corrected by adopting intersectoral efforts involving local communities. METHODS: We used qualitative methods such as focus group discussions and in-depth interviews to document perspectives on alcohol use among a tribal community in southern India. We recorded traditional norms, changing patterns of use of alcohol and its consequences for individuals, families and the community. RESULTS: Eight focus group discussions and eleven in-depth interviews were conducted. Though consumption of alcohol is part of the local culture, changes in occupation and availability of alcohol has made its consumption a problem. The introduction and easy availability of Indian-made foreign liquor, which is stronger than the locally brewed variety, in government-run outlets has changed the culture of drinking at festivals to drinking more often. This leads to public fights, domestic violence and increasing mortality and morbidity due to road traffic incidents and ill health. The age of initiation into drinking has decreased. CONCLUSION: The introduction of non-traditional and commercial alcohol use has put a heavy price on tribal and rural people. Community-based interventions targeting young children and adolescents may pay more dividends than pursuing purely medical treatments for problem drinkers. Copyright 2015, NMJI.		
400.	Rupa V, Maheswaran S, Ebenezer J, Mathews SS. Current therapeutic protocols for chronic granulomatous fungal sinusitis. Rhinology. 2015 Jun;53(2):181-6. doi: 10.4193/Rhin14.183.	PMID: 26030043 WOS:000356321300015.	NAT

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	Author information: Christian Medical College Vellore Tamil Nadu India, BACKGROUND: The treatment of chronic granulomatous fungal sinusitis (CGFS), a rare form of invasive fungal sinusitis, is controversial. AIM: To assess the response to postoperative antifungal therapy in patients with CGFS and suggest an effective treatment protocol. METHODOLOGY: Clinical records of patients with CGFS who had undergone excisive surgery followed by antifungal therapy were reviewed to assess current disease status.RESULTS: Fourteen male and 4 female patients were diagnosed with CGFS, based on typical histopathological and fungal smear/ culture results. Aspergillus flavus was isolated from 88.9% cases. Stage 1 patients had resectable sinonasal disease, stage 2 had additional spread to orbit/palate and stage 3 had extensive disease. Follow-up ranged from 6 months to 8 years. Residual disease was seen in all but one patient who received amphotericin B as first line therapy and in none of those who received itraconazole or voriconazole. Even those who received azoles as second line therapy were disease free at last follow-up. CONCLUSION: Surgery followed by itraconazole or voriconazole for Stage 1 and 2 disease and voriconazole for stage 3 disease is recommended for a good outcome. Amphotericin B is not recommended as first line therapy for CGFS.		
401.	Rupali, P., Patel, D. and Chandrasekar, P. Voriconazole toxicity masquerading as septic shock Leuk Lymphoma; 2015, 56 (4): 1170-1 Address: Department of Infectious Diseases, Christian Medical College, Vellore, India.	PMID: 25139693 WOS:000353612700062	INT
402.	Rymbai ML, Ramalingam VV, Samarasan I, Chandran BS, Mathew G, Jerobin J, Abraham AM,         Sachithanandham J, Kannangai R(1).         Frequency of EpsteinBarr virus infection as detected by messenger RNA for EBNA 1 in histologically proven         gastric adenocarcinoma in patients presenting to atertiary care center in South India.         Indian J Med Microbiol. 2015 Jul-Sep; 33(3):369-73. doi: 10.4103/0255-0857.158556.         Author information:         (1)Department of Clinical Virology, Christian Medical College, Vellore, Tamil         Nadu, India.         BACKGROUND: Epstein-Barr virus (EBV)-associated gastric carcinoma is a relatively uncommon entity         detected in approximately 10% of gastric adenocarcinoma. OBJECTIVE: The purpose of this study is to         estimate the frequency of EBV-associated gastric carcinoma and also to assess the nature of presentation,         any significant difference between this subgroup and EBV-negative gastric adenocarcinomas with respect to         age and sex predilection, lymph nodal status, site of presentation. MATERIALS AND METHODS: We         prospectively analyzed 100 cases of gastric adenocarcinoma who underwent either a partial or total         gastric tissue from the same patient were analyzed for the presence of Epstein-Barr nuclear antigen 1         (EBNA1) messenger ribonucleic acid (mRNA) by real-time polymerase chain reaction (PCR). RESULT: EBV         was detected in 6% cases of gastric adenocarcinoma. All the positive patients were males. The majority of         cases involved th	PMID: 26068337 WOS:000363279400007	NAT

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	population. There was no significant difference between this subgroup and EBV-negative gastric adenocarcinomas with respect to age and sex predilection, lymph nodal status and site of presentation. Short-term follow-up of this subgroup of patients seems to indicate a good overall prognosis after appropriate treatment. However, a larger study with long-term follow-up is needed to further establish the role of EBV in gastric adenocarcinoma in this study population.		
403.	Sabapathy V(1), Mentam J(2), Jacob PM(2), Kumar S(1). Noninvasive Optical Imaging and In Vivo Cell Tracking of Indocyanine Green Labeled Human Stem Cells Transplanted at Superficial or In-Depth Tissue of SCIDMice. Stem Cells Int. 2015;2015:606415. doi: 10.1155/2015/606415. Epub 2015 Jul 9. Author information: (1)Center for Stem Cell Research, Christian Medical College, Bagayam, Vellore, Tamil Nadu 632002, India. (2)Department of Endocrine Surgery, Christian MedicalCollege, Vellore, Tamil Nadu 632002, India. (2)Department of Endocrine Surgery, Christian MedicalCollege, Vellore, Tamil Nadu 632002, India. Stem cell based therapies hold great promise for the treatment of human diseases; however results from several recent clinical studies have not shown a level of efficacy required for their use as a first-line therapy, because more often in these studies fate of the transplanted cells is unknown. Thus monitoring the real-time fate of in vivo transplanted cells is essential to validate the full potential of stem cells based therapy. Recent studies have shown how real-time in vivo molecular imaging has helped in identifying hurdles towards clinical translation and designing potential strategies that may contribute to successful transplantation of stem cells and improved outcomes. At present, there are no cost effective and efficient labeling techniques for tracking the cells under in vivo conditions. Indocyanine green (ICG) is a safer, economical, and superior labelling technique for in vivo optical imaging. ICG is a FDA-approved agent and decades of usage have clearly established the effectiveness of ICG for human clinical applications. In this study, we have optimized the ICG labelling conditions that is optimal for noninvasive optical imaging and demonstrated that ICG labelled cells can be successfully used for in vivo cell tracking applications in SCID mice injury models.	PMC4512618, PMID: 26240573 WOS:000358221300001	INT
404.	<ul> <li>Sabapathy V(1), Tharion G(2), Kumar S(1).</li> <li>Cell Therapy Augments Functional Recovery Subsequent to Spinal Cord Injury under Experimental Conditions.</li> <li>Stem Cells Int. 2015;2015:132172. doi: 10.1155/2015/132172. Epub 2015 Jul 9.</li> <li>Author information: <ul> <li>(1)Centre for Stem Cell Research, Christian Medical College, Bagayam, Vellore, Tamil Nadu 632002, India.</li> <li>(2)Department of Physical Medicine and Rehabilitation, Christian Medical College, Vellore, Tamil Nadu 632002, India.</li> </ul> </li> <li>The spinal cord injury leads to enervation of normal tissue homeostasis ultimately leading to paralysis. Until now there is no proper cure for the treatment of spinal cord injury. Recently, cell therapy in animal spinal cord injury models has shown some progress of recovery. At present, clinical trials are under progress to evaluate the efficacy of cell transplantation for the treatment of spinal cord injury. Different types of cells such as pluripotent stem cells derived neural cells, mesenchymal stromal cells, neural stem cells, glial cells are being tested in various spinal cord injury models. In this review we highlight both the advances and</li> </ul>	PMC4512598, PMID: 26240569 WOS:000358216600001	INT

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	lacuna in the field of spinal cord injury by discussing epidemiology, pathophysiology, molecular mechanism, and various cell therapy strategies employed in preclinical and clinical injury models and finally we discuss the limitations and ethical issues involved in cell therapy approach for treating spinal cord injury.		
405.	Sabapathy V, Kumar S(1). Quest for alternate personalized clinical source of MSCs: Advancing towards hiPSCs derived iMSCs.	PMID: 26521972	INT
	Curr Stem Cell Res Ther. 2015 Nov 1. [Epub ahead of print]		
	Author information: (1)Centre for Stem Cell Research, Christian Medical College, Bagayam, Vellore - 632002 Tamil Nadu India. skumar@cmcvellore.ac.in.		
	The Human mesenchymal stromal/stem cells (MSCs) have been isolated from various tissue sources. Yet, the lack of a distinctive marker for identifying in vivo MSCs in their tissue niche has hampered the MSC's in vivo behavior tracking and compared that to the in vitro expanded cultures. In this review, we present a comprehensive report on MSCs history, isolation from assorted tissue sources, classification, long-term cultures for comprehensively characterized MSCs, immunomodulation, regenerative medical applications, iMSCs as a novel source of patient-specific iPSCs and scale-up strategies for translational applications. We have emphasized on prenatal tissue-derived MSCs and iMSCs derived from hiPSCs as an effective alternative to adult MSCs. We also highlight the urgent requirement to revisit the initial criteria laid down by International Society for Cellular Therapy (ISCT) and propose more stringent criteria to define, identify and exclusively characterize the MSCs derived from various tissue sources of MSCs. Unless the proposed goal is achieved, it is extremely difficult to realize the full potential of MSCs in translational applications. Although numerous patients have been tested with MSCs to date, noimmediate adverse outcomes or infusion-related toxicity has been reported, suggesting MSCs infusion to be safe. However, rare adverse event and late complications of the treatment may be detected in large cohorts of patients with long-term follow-up.		
406.	Sabharwal, S., George, A. J. and Singh, J. C. Hidden penile fracture: An unusual presentation and review of literature Urol Ann; 2015, 7 (2): 248-50 Penile fractures, a not so uncommon urological emergency, mostly present with a characteristic history and physical examination. Here, we present an atypical case where even in the absence of physical findings, a characteristic history led us to penile exploration and timely repair, highlighting the importance of careful history-taking in these cases.	PMID: 25836974 4374269: 4374269	NAT
407.	Address: Department of Urology, Christian Medical College, Vellore, Tamil Nadu, India. Sadhu, J., Samuel, V. M., Kodiatte, T. and Gaikwad, P. Amyand's Hernia: Case Report -Current Dilemma in Diagnosis and Management J Clin Diagn Res; 2015, 9 (2): PD03-4 Amyand's hernia is an extremely rare condition, often misdiagnosed as a strangulated inguinal hernia, in which the inguinal hernial sac contains the vermiform appendix. It is often a surgical surprise. The reported incidence is approximately 1% of all adult inguinal hernia cases. Acute appendicitis in the Amyand's hernia is even less common. We report a rare presentation of acute appendicitis associated with Amyand's hernia	PMID: 25859489 PMCID: 4378771	NAT

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	managed by en masse reduction of the hernia followed by laparoscopic appendicectomy and open Lichtenstein's tension free inguinal hernioplasty. Address: Assistant Professor, Department of General Surgery, Christian Medical College, Vellore, India. Assistant Professor, Department of Pathology, Christian Medical College, Vellore, India. Professor, Department of General Surgery, Christian Medical College, Vellore, India.		
408.	Sagar A, Sureka J, Appendix in Inguinal Hernia-Amyand's Hernia Indian J Surg. 2015 Dec;77(Suppl 2):733-4. doi: 10.1007/s12262-013-0890-8. Epub2013 Mar 3. Department of Radiology, Christian Medical College and Hospital, Vellore, Tamilnadu India Inguinal hernia containing vermiform appendix as its content is termed as Amyand's hernia. Though an unusual condition, however it is important for the radiologists as well as the surgeons to be aware of this entity especially if the herniated appendix is inflamed so as to avoid delay in treatment and decrease the associated morbidity and mortality.	PMCID: PMC4692924 PMID: 26730102 WOS:000368531700111	NAT
409.	Saha, S., Bal, H. S. and Sen, S. Spontaneous rupture of a congenital diaphragmatic eventration in an infant BMJ Case Rep; 2015, 2015 Rupture of the diaphragm may be traumatic or spontaneous. A spontaneous rupture occurring in a congenital eventration of the diaphragm is extremely rare. Only one such case has been reported previously. We report a case of a 5-month-old male infant who presented with acute life- threatening respiratory distress secondary to spontaneous rupture of a congenital diaphragmatic eventration. Address: Department of Paediatric Surgery, Christian Medical College, Vellore, Tamilnadu, India.	PMID: 25976306	INT
410.	<ul> <li>Saheer S(1), Enose P(1), Thangakunam B(1), Irodi A(2), Korula A(3).</li> <li>Cavitating lung metastasis secondary to ameloblastoma.</li> <li>Lung India. 2015 Sep-Oct;32(5):527-8. doi: 10.4103/0970-2113.164181.</li> <li>(1)Department of Pulmonary Medicine, Christian Medical College, Vellore, Tamil Nadu, India E-mail: drssaheer@gmail.com. (2)Department of Radiology, Christian Medical College, Vellore, Tamil Nadu, India.</li> <li>(3)Department of Pathology, Christian Medical College, Vellore, Tamil Nadu, India.</li> </ul>	PMID: 26628778	NAT
411.	Sampath R, Manipadam MT(1), Nair S, Samarasam I. Extracavitary primary effusion lymphoma: A case report from India. Indian J Pathol Microbiol. 2015 Oct-Dec;58(4):496-9. doi: 10.4103/0377-4929.168851. Department of Pathology, Christian Medical College, Vellore, Tamil Nadu, India. We present a case of extracavitary primary effusion lymphoma presenting, as jejunal polyps in a 38-year-old man. This is the first report of this entity from	PMID: 26549075 WOS:000370276400017	NAT

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	India. Although rare in our country, the diagnosis should be suspected in cases of CD20 negative large cell lymphoma with plasmablastic or immunoblastic differentiation in seropositive patients. Immunostaining for latency-associated nuclear antigen-1 and in situ hybridization for Epstein-Barr virus-associated RNAwill confirm the diagnosis.		
412.	Samuel R(1), Duda DG(2), Fukumura D(2), Jain RK(3). Vascular diseases await translation of blood vessels engineered from stem cells. Sci Transl Med. 2015 Oct 14;7(309):309rv6. doi: 10.1126/scitranslmed.aaa1805.	PMID: 26468328 WOS:000365235100002	INT
	Author information: (1)Edwin L. Steele Laboratories, Department of Radiation Oncology, Massachusetts General Hospital and Harvard Medical School, Boston, MA 02114, USA. Centre for Stem Cell Research, Christian Medical College, Bagayam, Vellore 632002, Tamil Nadu, India. (2)Edwin L. Steele Laboratories, Department of Radiation Oncology, Massachusetts General Hospital and Harvard Medical School, Boston, MA 02114, USA. (3)Edwin L. Steele Laboratories, Department of Radiation Oncology, Massachusetts General Hospital and Harvard Medical School, Boston, MA 02114, USA. jain@steele.mgh.harvard.edu.		
	The discovery of human induced pluripotent stem cells (hiPSCs) might pave the way toward a long-sought solution for obtaining sufficient numbers of autologous cells for tissue engineering. Several methods exist for generating endothelial cells or perivascular cells from hiPSCs in vitro for use in the building of vascular tissue. We discuss current developments in the generation of vascular progenitor cells from hiPSCs and the assessment of their functional capacity in vivo, opportunities and challenges for the clinical translation of engineered vascular tissue, and modeling of vascular diseases using hiPSC-derived vascularprogenitor cells. Copyright © 2015, American Association for the Advancement of Science.		
413.	Samuel R, Premkumar C, Rajendran S, Ramanathan K, Benjamin S, Mathews J, et al. FETAL METABOLIC REPROGRAMMING: FETAL PLACENTAL GESTATIONAL DIABETES MELLITUS VASCULAR PROGENITOR CELLS RESEMBLE ADULT TYPE 2 PROLIFERATIVE DIABETIC RETINOPATHY. European Journal of Ophthalmology. 2015;25(3):E18-E	WOS:000361151700043	INT
414.	Samuel V, Stephen E. Anatomical Variations of the Saphenous Fascia in the Indian Population. Journal of Vascular Surgery. 2015;61(6):83S-S. <u>http://dx.doi.org/10.1016/i.jvs.2015.04.161</u> Author Address: Christian Medical College, India, Vellore, India	WOS:000361884200156.	INT
415.	Sandeep B, Paul Russell Effectiveness of christ centered psychotherapy in different psychiatric conditions <u>Indian J Psychiatry. 2015 Jan; 57(Suppl 1): S113–S159.</u> <u>http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4333352/</u> Christian Medical College Vellore, India. E-mails: <u>gmail.com@yrtaihcysppeednas</u> , <u>cmcvellore.ac.in@llessur</u> Keyword: Christ Psychotherapy Religiosity Spirituality	WOS:000366494300483	NAT
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	Background: If spirituality is an inner relationship with the God who created you and me then that should lead us to greater mental health. Objectives: To assess the effectiveness of Christ Centered Psychotherapy(CCP) when given as an adjuvant to standard therapy in different psychiatric conditions To determine factors associated with improvement in areas like duration and severity of symptoms after the intervention, the dosages and number of drugs needed to control symptoms, improvement in quality of life and coping skills and reduction in caregiver burden and all these parameters at 3 months' follow up. Methods: A naturalistic observational study is planned in which patients and care givers who are willing to undergo CCP after knowing the details about the same would be recruited. Baseline quality of life and spirituality would be assessed using WHO Quality Of Life Questionnaire and FACIT-Sp-12 (Functional Assessment of Chronic Illness Therapy-Spiritual Well-Being) respectively and the same would be measured immediately after the therapy and at 3 months' follow up. CCP is a unique school of psychotherapy which comprises of series of sessions which has following characteristic features: Rapport is established with the patient in an atmosphere of divine love of the Lord Jesus Christ as revealed in the Holy Bible. The specific areas of problems are probed into in sufficient detail ensuring confidentiality. It would be explained how God is most concerned in helping them in their troubled situation They would be told about the forgiveness Jesus offers Specific Bible quotations along with sufficient practical illustrations would be used to tackle the problems. Results: This is an intervention proposed to be implemented. The results have to be measured as objectively as possible. Conclusion: Spiritual interventions have been found to be useful to many patients with different psychiatric conditions in our day to day clinical practice. Here we are trying to prove it by sound scientific research.		
416.	<ul> <li>Sandhya P(1), Danda D(1), Sharma D(2,)(3), Scaria V(2,)(3).</li> <li>Does the buck stop with the bugs?: an overview of microbial dysbiosis in rheumatoid arthritis.</li> <li>Int J Rheum Dis. 2015 Sep 19. doi: 10.1111/1756-185X.12728. [Epub ahead of print]</li> <li>Author information: <ul> <li>(1)Department of Clinical Immunology and Rheumatology, Christian Medical College, Vellore, Tamil Nadu, India. (2)GN Ramachandran Knowledge Center for Genome Informatics, CSIR Institute of Genomics and Integrative Biology (CSIR-IGIB), Delhi, India. (3)Faculty of Life Sciences, Academy of Scientific and Innovative Research (AcSIR), Delhi, India.</li> </ul> </li> <li>The human body is an environmental niche which is home to diverse co-habitingmicrobes collectively referred as the human microbiome. Recent years have seenthe in-depth characterization of the human microbiome and associations withdiseases. Linking of the composition or number of the human microbiota withdiseases and traits date back to the original work of Elie Metchnikoff. Recentadvances in genomic technologies have opened up finer details and dynamics ofthis new science with higher precision. Microbe-rheumatoid arthritis connection, largely related to the gut and oral microbiomes, has showed up as a result -apart from several other earlier, well-studied candidate autoimmune diseases. Although evidence favouring roles of specific microbial species, includingPorphyromonas, Prevotella and Leptotricha, has become clearer, mechanisticinsights still continue to be enigmatic. Manipulating the microbes by traditional dietary</li> </ul>	PMID: 26385261	INT

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	modifications, probiotics, and antibiotics and by currently employed disease-modifying agents seems to modulate the disease process and its progression. In the present review, we appraise the existing information as well as the gaps in knowledge in this challenging field. We also discuss the future directions for potential clinical applications, including prevention and management of rheumatoid arthritis using microbial modifications. © 2015 Asia Pacific League of Associations for Rheumatology and Wiley Publishing Asia Pty Ltd.		
417.	<ul> <li>Sandhya P(1), Joshi K(2,)(3), Scaria V(3,)(4).</li> <li>Long noncoding RNAs could be potential key players in the pathophysiology of Sjögren's syndrome.</li> <li>Int J Rheum Dis. 2015 Nov;18(8):898-905. doi: 10.1111/1756-185X.12752. Epub 2015 Sep 30.</li> <li>Author information: <ul> <li>(1)Department of Clinical Immunology and Rheumatology, Christian Medical College, Vellore, India. (2)Open Source Drug Discovery Unit, Delhi, India. (3)Academy of Scientific and Innovative Research (AcSIR), Anusandhan Bhawan, Delhi, India. (4)GN Ramachandran Knowledge Centre for Genome Informatics, CSIR Institute of Genomics and Integrative Biology (CSIR-IGIB), Delhi, India.</li> <li>Long noncoding RNAs (IncRNAs) are a recently discovered class of noncoding functional RNAs encoded by metazoan genomes. Recent studies suggest a larger regulatory role for IncRNAs in critical biological and disease processes. Mounting evidence on the role of IncRNAs in regulating key processes of the immune system prompted us to hypothesize the role of IncRNAs as key regulators of the pathophysiology of Sjögren's syndrome (SS). We used two similar approaches based on reanalysis of microarray expression datasets and curation of IncRNA-protein coding gene interactions from literature to derive support for our hypothesis. We also discuss potential larger and hitherto unknown role of IncRNA regulatory networks in modulating the expression of key genes involved in the pathogenesis of SS and thereby modulating the pathophysiology of SS.</li> <li>© 2015 Asia Pacific League of Associations for Rheumatology and Wiley Publishing Asia Pty Ltd.</li> </ul> </li> </ul>	PMID: 26420575 WOS:000369524700014	INT
418.	Sandhya, P., Danda, D. and Jeyaseelan, L. Are Indian patients with juvenile-onset ankylosing spondylitis taller than reference population ? <u>Indian Journal of Medical Research</u> . 2015 Apr; 141(4): 446-53 BACKGROUND & OBJECTIVES: Paucity of growth retardation has been observed by us in patients with juvenile-onset ankylosing spondylitis (JAS) in a tertiary care health centre in south India. We, therefore, undertook this pilot study to assess and compare anthropometry of patients with JAS who were 15 yr and older with that of adult onset ankylosing spondylitis (AAS) and matching Indian reference population. METHODS: Consecutive male patients (December 2009- October 2012) with JAS and AAS fulfilling Modified New York Criteria were selected after applying inclusion and exclusion criteria. Demography and anthropometry were noted. Height of both patient groups as well as their parents and siblings were compared with that of the reference population. Mid-parental height and delta height were derived. Those with delta height of >8.5 cm were compared with the remaining. Multivariate logistic regression was done for variables that were found to be significant by chi-square in bivariate analysis. Similar analysis was done for BMI also. RESULTS: There was no significant difference in anthropometric variables between JAS and AAS groups. Twenty eight of the 30 (93.33%) JAS patients were taller as compared to the reference population.	PMID: 26112846 WOS:000357093400012	NAT

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	Twenty six (86.67%) AAS patients were taller than the reference population. The mean heights of JAS (170.67 +/- 6.94 cm) and AAS (168.2 +/- 5.94 cm) patients were significantly higher than the reference value of 163.11 cm; both p0 <0.001. Logistic regression revealed that tallness in JAS was associated positively with hypermobility (OR=23.46,95%CI 1.2-447.2, p0 =0.036). No significant association was detected for height in AAS and for BMI in both JAS and AAS groups. INTERPRETATION & CONCLUSIONS: No growth retardation was seen in patients with JAS in our study. Majority of patients with JAS and AAS were taller than reference population. The difference between mean height of JAS and AAS was not significant. Larger studies involving different populations are required to confirm these findings. Address: Department of Rheumatology & Clinical Immunology, Christian Medical College & Hospital, Vellore, India.		
419.	Sanjay M(1,)(2), Neymotin SA(3,)(4), Krothapalli SB(1). Impaired dendritic inhibition leads to epileptic activity in a computer model of CA3. Hippocampus. 2015 Nov;25(11):1336-50. doi: 10.1002/hipo.22440. Epub 2015 Apr 22. Author information: (1)Neurophysiology Unit, Department of Neurological Sciences, Christian Medical College, Vellore, India. (2)Department of Bioengineering, Christian Medical College, Vellore, India. (3)Department of Physiology and Pharmacology, State University of New York, Downstate Medical Center, Brooklyn, New York. (4)Department of Neurobiology, Yale University School of Medicine, New Haven,Connecticut. Temporal lobe epilepsy (TLE) is a common type of epilepsy with hippocampus as the usual site of origin. The CA3 subfield of hippocampus is reported to have a low epileptic threshold and hence initiates the disorder in patients with TLE. This study computationally investigates how impaired dendritic inhibition of pyramidal cells in the vulnerable CA3 subfield leads to generation of epileptic activity. A model of CA3 subfield consisting of 800 pyramidal cells, 200 basket cells (BC) and 200 Oriens-Lacunosum Moleculare (O-LM) interneurons was used. The dendritic inhibition provided by O-LM interneurons is reported to be selectively impaired in some TLEs. A step-vise approach is taken to investigate how alterations in network connectivity lead to generation of epileptic patterns. Initially, dendritic inhibition alone was reduced, followed by an increase in the external inputs received at the distal dendrites of pyramidal cells, and finally additional changes were made at the synapses between all neurons in the network. In the first case, when the dendritic inhibition of pyramidal cells alone was reduced, the local field potential activity changed from a theta-modulated gamma pattern to a prominently gamma frequency pattern. In the second case, in addition to this reduction of dendritic inhibition, with a simultaneously made in synaptic connectivity between all neurons in the network, the bask	PMID: 25864919 WOS:000363682300015	INT
420.	Santhanam S(1), Kumar M. Paracetamol in Patent Ductus Arteriosus, "Flavour of the Month" or Here to Stay?	PMID: 26244945 WOS:000358611700003	NAT

	Indian Pediatr. 2015 Jul;52(7):567-8.	,	
	Author information: (1)Department of Neonatology, Christian Medical College, Vellore, India. santhanamsridhar@gmail.com. Comment on Indian Pediatr. 2015 Jul;52(7):573-8.		
421.	Saravanan, M., Alexander, S., Matthai, S. M., Korula, A., Varughese, S. and Tamilarasi, V. Immunoglobulin G4-related tubulointerstitial nephritis associated with interstitial pulmonary disease: Report of a case with review of literature <u>Indian Journal of Nephrology</u> . 2015 Mar-Apr; 25(2): 113-6 Immunoglobulin G4-related disease (IgG4-RD) is an emerging clinicopathological entity. Renal involvement is dominated by tubulointerstitial nephritis (TIN) with IgG4-positive plasma cells and fibrosis. IgG4-RD commonly affects middle-aged to elderly men with accompanying extra-renal lesions such as sialadenitis, lymphadenopathy, or type 1 autoimmune pancreatitis, all of which respond favorably to corticosteroid therapy. The disease burden of IgG4-related kidney disease (IgG4-RKD) in India remains largely underestimated. We report a case of IgG4-RKD manifesting as TIN associated with interstitial pulmonary disease, illustrating typical clinico-pathologic, serologic, immuno-histochemical, and ultrastructural features of this condition. In view of potential amelioration of renal dysfunction with appropriate therapy, the need for awareness of this condition and early diagnosis is highlighted. Address: Department of Nephrology, Christian Medical College, Vellore, Tamil Nadu, India. Department of Central Electron Microscopic Unit, Christian Medical College, Vellore, Tamil Nadu, India.	PMID: 25838652 4379619: 4379619	NAT
422.	<ul> <li>Sarkar S(1), Chacko AG(1), Chacko G(2).</li> <li>Clinicopathological correlates of extrasellar growth patterns in pituitary adenomas.</li> <li>J Clin Neurosci. 2015 Jul;22(7):1173-7. doi: 10.1016/j.jocn.2015.01.029. Epub 2015 May 12.</li> <li>Author information: <ul> <li>(1)Neurosurgery Section, Department of Neurological Sciences, Christian Medical College, Vellore, Tamil Nadu, India. (2)Neuropathology Section, Department of Neurological Sciences, Christian Medical College, Ida Scudder Road, Vellore, Tamil Nadu 632004, India. Electronic address: geetachacko@cmcvellore.ac.in.</li> </ul> </li> <li>We reviewed clinical, imaging and histopathology details of 297 patients who underwent surgery for pituitary adenomas, with an equal distribution of functional and non-functioning tumors, to examine clinicopathological correlates of extrasellar growth. Knosp grades of 3 and 4 on MRI defined cavernous sinus invasion, Hardy grades of C and D defined significant suprasellar/subfrontal extension, and intraoperative evidence of tumor eroding through the clivus or sellar floor defined infrasellar invasion. Disease status at follow-up was known in 246 patients overall, including 35 patients who were evaluated for progression of residual disease on serial imaging. On univariate analysis, we found several statistically significant associations (p &lt; 0.05) including adenoma size with age, sex and tumor protein p53 reactivity; cuvernous sinus invasion with size, non-functional status, increased mitotic activity, an elevated MIB-1 proliferation index and p53 reactivity; suprasellar/subfrontal extension with p53 reactivity; suprasellar/subfrontal extension with p53 reactivity; and infrasellar invasion with age and tumor size. When adjusting for confounders with logistic regression, several</li> </ul>	PMID: 25979255 WOS:000356558200020.	INT

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	significant associations were evident including adenoma size with male sex and p53 reactivity; cavernous sinus invasion with size and elevated MIB-1 proliferation index; suprasellar/subfrontal extension with p53 reactivity; and infrasellar invasion with adenoma size alone. Patients with early progression of postoperative residual tumor were younger w itha non-significant trend towards higher MIB-1 proliferation indices. Individual patterns of extrasellar growth in pituitary adenomas are associated with unique clinical and immunohistochemical profiles. Younger patients with elevated MIB-1values are probably at high risk for early recurrence of non-functioning tumors. Definitions of atypia must be standardized before more robust assumptions about tumor biology can be established.		
423.	<ul> <li>Sasidharan A(1), Gohil A(1), Koshy S(2), Gupta AK(1).</li> <li>Bony tumour in an unusual location on the mandible.</li> <li>Indian J Plast Surg. 2015 May-Aug;48(2):200-3. doi: 10.4103/0970-0358.163062.</li> <li>Author information: <ul> <li>(1)Department of Plastic and Reconstructive Surgery, Christian Medical College and Hospital, Vellore, Tamil Nadu, India.</li> <li>(2)Department of Oral and Maxillofacial Surgery, Christian Medical College and Hospital, Vellore, Tamil Nadu, India.</li> </ul> </li> <li>Osteomas are benign osteogenic tumors that are seen in the facial bones, but uncommonly in the mandible. In the facial bones, both central and peripheral osteomas have been described. Peripheral osteomas have been described to occur in the frontal, ethmoid, and maxillary sinuses but are not common in jawbones. When in the mandible, they are usually found over the angle and inferior border of the mandible. We report on a solitary peripheral osteoma located unusually in the sigmoid notch of the left mandible causing facial asymmetry.</li> </ul>	PMID: 26424988	NAT
424.	Sathishkumar, D., George, R., Daniel, D. and Peter, J. V. Clinical profile of childhood-onset psoriasis and prevalence of HLA-Cw6: a hospital-based study from India Postgrad Med J; 2015, 91 (1076): 309-14 BACKGROUND: Childhood-onset psoriasis (COP), a distinct clinical entity, may be associated with HLA-Cw6 positivity and metabolic and cardiovascular complications. There is some evidence that HLA-Cw6 positivity is associated with more extensive or severe disease and that positivity is lower in Asian patients than in Caucasians. We describe the clinical profile, prevalence of the HLA-Cw6 allele, metabolic syndrome (MetS) and vitamin D deficiency in Indian patients with COP. METHODS: In this cross-sectional hospital-based study over 15 months (June 2010-August 2011), 108 consecutive patients with disease onset =16 years were<br enrolled. Demographic, clinical and laboratory data were collected. Patients were categorised as children with COP (CCOP; n=69) or adults with COP (ACOP; n=39). Disease severity was assessed using body surface area (BSA) involved and Psoriasis Area and Severity Index (PASI) score. RESULTS: The most common morphological type was chronic plaque psoriasis; follicular psoriasis was seen only in children. Adults with disease onset in childhood, when compared with CCOP, had later disease onset (11.0+/-4.0 vs 6.9+/-3.8 (mean+/-SD) years; p<0.0001) of greater severity (p=0.021) based on BSA involved. PASI scores were, however, similar in ACOP and CCOP. Body mass index was not associated with disease severity. Of the 83 who underwent HLA-C typing, 46 (55.4%) were positive; positivity was associated with guttate lesions (p=0.031), scalp involvement (p=0.004), greater BSA involvement (p=0.002) and higher PASI scores (p=0.013). Vitamin D deficiency, obesity and MetS were present in 77.4%, 10.7% and 14.5% of patients, respectively. CONCLUSIONS: Among Indian patients, CCOP have earlier disease onset than ACOP. HLA-Cw6	PMID: 25947201 WOS:000355873600003	INT

was associated with guttate psoriasis, scalp involvement and disease severity. Vitamin D deficiency was common. Address: Department of Dermatology, Venereology and Leprosy, Christian Medical College and Hospital,		
<ul> <li>Vellore, Tamil Nadu, India.</li> <li>Department of Transfusion Medicine and Immunohaematology, Christian Medical College and Hospital, Vellore, Tamil Nadu, India.</li> <li>Department of Medicine, Christian Medical College and Hospital, Vellore, Tamil Nadu, India.</li> <li>Schumacher SG(1), Thangakunam B(2), Denkinger CM(3), Oliver AA(2), Shakti KB(2), Qin ZZ(1), Michael JS(4), Luo R(5), Pai M(1), Christopher DJ(2).</li> <li>Impact of point-of-care implementation of Xpert® MTB/RIF: product vs. processinnovation.</li> <li>Int J Tuberc Lung Dis. 2015 Sep;19(9):1084-90. doi: 10.5588/ijtld.15.0120.</li> <li>Author information:</li> <li>(1)McGill University Department of Epidemiology &amp; Biostatistics, Montreal, Canada; McGill International TB Centre, Montreal, Quebec, Canada. (2)Department of Pulmonary Medicine, Christian Medical College Vellore, India. (3)McGill University Department of Epidemiology &amp; Biostatistics, Montreal, Canada; McGill International</li> </ul>	PMID: 26260830 WOS:000359894400017	INT
TB Centre, Montreal, Quebec, Canada; Division of Infectious Disease, Beth Israel Deaconess Medical Centre, Boston, Massachusetts, USA. (4)Department of Microbiology, Christian Medical College, Vellore, India. (5)Department of Pathology, Stanford University, Stanford, California, USA. BACKGROUND: Both product innovation (e.g., more sensitive tests) and process innovation (e.g., a point-of- care [POC] testing programme) could improve patient outcomes. OBJECTIVE: To study the respective contributions of product and process innovation in improving patient outcomes. DESIGN: We implemented a POC programme using Xpert(®) MTB/RIF in an out-patient clinic of a tertiary care hospital in India. We measured the impact of process innovation by comparing time to diagnosis with routine testing vs. POC testing. We measured the impact of product innovation by comparing accuracy and time to diagnosis using smear microscopy vs. POC Xpert. RESULTS: We enrolled 1012 patients over a 15-month period. Xpert had high accuracy, but the incremental value of one Xpert over two smears was only 6% (95%CI 3-12). Implementing Xpert as a routine laboratory test did not reduce the time to diagnosis by 5.5 days (95%CI 4.3-6.7), but required dedicated staff and substantial adaptation of clinic workflow. CONCLUSION: Process innovation by way of a POC Xpert programme had a greater impact on time to diagnosis than the product per se, and can yield important improvements in patient care that are complementary to those achieved by introducing innovative technologies.		
Sebastian A(1), Vijayaselvi R(2), Nandeibam Y(3), Natarajan M(3), Paul TV(4), Antonisamy B(5), Mathews JE(6). A Case Control Study to Evaluate the Association between Primary Cesarean Sectionfor Dystocia and Vitamin D Deficiency. J Clin Diagn Res. 2015 Sep;9(9):QC05-8. doi: 10.7860/JCDR/2015/14029.6502. Epub2015 Sep 1. Author information:	PMID: 26500960	NAT
	Department of Transfusion Medicine and Immunohaematology, Christian Medical College and Hospital, Vellore, Tamil Nadu, India. Department of Medicine, Christian Medical College and Hospital, Vellore, Tamil Nadu, India. Schumacher SG(1), Thangakunam B(2), Denkinger CM(3), Oliver AA(2), Shakti KB(2), Qin ZZ(1), Michael JS(4), Luo R(5), Pai M(1), Christopher D1(2). Impact of point-of-care implementation of Xpert® MTB/RIF: product vs. processinnovation. Int J Tuberc Lung Dis. 2015 Sep;19(9):1084-90. doi: 10.5588/jtjtd.15.0120. Author information: (1)McGill University Department of Epidemiology & Biostatistics, Montreal, Canada; McGill International TB Centre, Montreal, Quebec, Canada. (2)Department of Puimonary Medicine, Christian Medical College Vellore, India. (3)McGill University Department of Epidemiology & Biostatistics, Montreal, Canada; McGill International TB Centre, Montreal, Quebec, Canada; Division of Infectious Disease, Beth Israel Deaconess Medical Centre, Boston, Massachusetts, USA. (4)Department of Microbiology, Christian Medical College, Vellore, India. (5)Department of Pathology, Stanford University, Stanford, California, USA. BACKGROUND: Both product innovation (e.g., more sensitive tests) and process innovation (e.g., a point-of- care [POC] testing programme) could improve patient outcomes. DEJEGN: We implemented a POC programme using Xpert(8) MTB/RIF in an out-patient clinic of a tertiary care hospital in India. We measured the impact of process innovation by comparing accuracy and time to diagnosis using smear microscopy vs. POC Xpert. RESULTS: We enrolled 1012 patients over a 15-month period. Xpert had high accuracy, but the incremental value of one Xpert over two smears was only 6% (95%CI 3-12). Implementing Xpert as a routine laboratory test did not reduce the time to diagnosis by 5.5 days (95%CI 4.3-6.7), but required dedicated staff and substantial adaptation of clinic workfow. CONCLUSION: Process innovation by way of a POC Xpert programme had a greater impact on time to diagnosis than the	Department of Transfusion Medicine and Immunohaematology, Christian Medical College and Hospital, Vellore, Tamil Nadu, India. Department of Medicine, Christian Medical College and Hospital, Vellore, Tamil Nadu, India. Schumacher SC(1), Thangkunam 8(2), Denkinger CM(3), Oliver AA(2), Shakti KB(2), Qin ZZ(1), Michael JS(4), Luo R(5), Pai M(1), Christopher DJ(2). Impact of point-of-care implementation of Xpert@ MTB/RIF: product vs. processinnovation. Int J Tuberc Lung Dis. 2015 Sep;19(9):1084-90. doi: 10.5588/jtid.15.0120. Author information: (1)MrCsill University Department of Epidemiology & Biostatistics, Montreal, Canada; McGill International TB Centre, Montreal, Quebec, Canada. (2)Department of Pulmonary Medicine, Christian Medical College Vellore, India. (3)McGill University Department of Epidemiology & Biostatistics, Montreal, Canada; McGill International TB Centre, Montreal, Quebec, Canada, Division of Infectious Disease, Beth Israel Deaconess Medical Centre, Boston, Massachusetts, USA. (4)Department of Microbiology, Christian Medical College, Vellore, India. (5)Department of Pathology, Stanford University, Stanford, California, USA. BACKGROUND: Both product innovation (e.g., more sensitive tests) and process innovation (e.g., a point-of- care [POC] testing programme] could improve patient outcomes. DESIGN: We implemented a POC programme using Xpert(®) MTB/RIF in an out-patient Cinic of a tertiary care hospital in India. We measured the impact of process innovation by comparing accuracy and time to diagnosis sub spect as a routine laboratory test din ot reduce the time to diagnosis with routine testing vs. POC testing. We measured the impact of programme had a greater impact on time to diagnosis than the product process innovation by way of a POC Xpert. RESULTS: We enrolled 1012 patients over a 15-month period. Xpert had high accuracy, but the incremental substantial adaptation of clinic workflow. CONCLUSION: Process innovation by way of a POC Xpert mory and a greater impact on time to

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	<ul> <li>India . (2)Associate Professor, Department of Obstetrics and Gynaecology, Christian Medical College , Vellore, Tamilnadu, India . (3)Assistant Professor, Department of Obstetrics and Gynaecology, Christian Medical College , Vellore, Tamilnadu, India . (4)Professor, Department of Biostatistics, Christian Medical College , Vellore, Tamilnadu, India . (5)Professor, Department of Biostatistics, Christian Medical College , Vellore, Tamilnadu, India . (6)Professor, Department of Obstetrics and Gynaecology Unit V, Christian Medical College , Ida Scudder Road, Vellore, South India .</li> <li>BACKGROUND: Milder forms of vitamin D deficiency could be responsible for poor muscular performance causing dysfunctional labor. The aim of our research was to study the association between vitamin D deficiency and primary cesarean section. MATERIALS AND METHODS: This was a case control study. Forty six women who delivered by primary cesarean section with dystocia as primary or secondary indication after 37 weeks of gestation were taken as cases and a similar number of women who delivered vaginally were taken as controls. Vitamin D deficiency was diagnosed when the serum (25(OH)D level was ≤20 ng/ml and this was compared between cases and controls. RESULTS: Median serum (OH) vitamin D levels was 23.3ng/ml among women who delivered by cesarean section and 26.2ng/ml among controls (p=0.196). Baseline characteristics were similar in both groups except for a strong association between Body Mass Index (BMI) and cesarean section, (29.7kg/m(2) in cases and 25.9kg/m(2) in controls p=0.001) seen in multivariate analysis. Vitamin D deficiency was seen in 34.8% of cases and 21.7% of controls (p=0.165). CONCLUSION: This small case control study did not show a significant association between vitamin D deficiency and primary cesarean section.</li> </ul>		
427.	<ul> <li>Sebastian S(1), Sreedevi N(2), Lepcha A(1), Mathew J(1).</li> <li>Nasalance in Cochlear Implantees.</li> <li>Clin Exp Otorhinolaryngol. 2015 Sep;8(3):202-5. doi: 10.3342/ceo.2015.8.3.202. Epub 2015 Aug 13.</li> <li>Author information: <ul> <li>(1)Department of Otorhinolaryngology, Christian Medical College, Vellore, India.</li> <li>(2)Department of Speech Language Pathology, All India Institute of Speech &amp; Hearing, Mysore, India.</li> </ul> </li> <li>OBJECTIVE: Speech intelligibility is severely affected in children with congenital profound hearing loss. Hypernasality is a problem commonly encountered in their speech. Auditory information received from cochlear implants is expected to be far superior to that from hearing aids. Our study aimed at comparing the percentages of nasality in the speech of the cochlear implantees with hearing aid users and also with children with normal hearing. METHODS: Three groups of subjects took part in the study. Groups I and II comprised 12 children each, in the age range of 4-10 years, with prelingual bilateral profound hearing loss, using multichannel cochlear implants and digital hearing aids respectively. Both groups had received at least one year of speech therapy intervention since cochlear implant surgery and hearing id fitting respectively. The third group consisted of age-matched and sex-matched children with normal hearing. The subjects were asked to say a sentence which consisted ofonly oral sounds and no nasal sounds ("Buy baby a bib"). The nasalance score as apercentage of nasalance in their speech. The cochlear implantees showed a lower percentage of nasalance in their speech. The cochlear was superior to that of the hearing aids showed a high percentage of nasalance in their speech. The cochlear was superior to that of the hearing aids showed a high percentage of nasalance in their speech. The cochlear was superior to that of the hearing aids, but did not match with their normal hearing aids showed a high percentage of nasalance in their speech</li></ul>	PMC4553348, PMID: 26330912 WOS:000362616000005	INT

	cochlear implantation in children, with hearing impairments at deviant levels, which needs attention. Further research needs to be carried out to explore the effect of the age at implantation as a variable in reducing nasality in the speech and attaining normative values in cochlear implantees, and also between unilateral versus bilateral implantees.		
428.	Sebastian S; Nair PG; Thomas P; Tyagi AK Oropharyngeal Dysphagia: neurogenic etiology and manifestation. <u>Indian J Otolaryngol Head Neck Surg.</u> 2015 Mar;67(Suppl 1):119-23. doi: 10.1007/s12070-014-0794-3. Epub 2014 Nov 9.	PMID: 25621266 PMCID:PMC4298594	NAT
	Department of ENT, Christian Medical College, Vellore, 632004 Tamilnadu India. Department of Speech Pathology and Audiology, Amritha Institute of Medical Department of ENT, Christian Medical College, Vellore, 632004 Tamilnadu India. Department of ENT, Christian Medical College, Vellore, 632004 Tamilnadu India. ABSTRACT: To determine the type, severity and manifestation of dysphagia in patients with neurogenic etiology. Clinical documentation was done on the different etiologies, its manifestation, assessment findings and management strategies taken for patients with neurogenic oropharyngeal dysphagia who were referred for assessment and management of dysphagia over a period of three months in a tertiary care teaching hospital. Flexible endoscopic examination was done in all the patients. The severity of dysphagiain these patients were graded based on Gugging Swallowing Screen (GUSS). A total of 53 patients with neurogenic oropharyngeal dysphagia were evaluated by an otolaryngologist and a speech language pathologist over a period of three months. The grading of severity based on GUSS for these patients were done. There were 30 patients with recurrent laryngeal nerve injury due to various etiologies, one patient with Neurofibroma- vestibular schwanoma who underwent surgical excision, 16 patients with stroke, two patients with traumatic brain injury, two patients with Parkinsonism and two patients with myasthenia gravis. The manifestation of dysphagia was mainly in the form of prolonged masticatory time, oral transit time, and increased number of swallows required for each bolus, cricopharyngeal spasms and aspiration. Among the dysphagia patients with neurogenic etiology, dysphagia is manifested with a gradual onset and is found to have a progressive course in degenerative disorders. Morbidity and mortality may be reduced with early identification and management of neurogenic.		
429.	Sebastian, T., Yadav, B., Jeyaseelan, L., Vijayaselvi, R. and Jose, R. Small for gestational age births among South Indian women: temporal trend and risk factors from 1996 to 2010 BMC Pregnancy Childbirth; 2015, 15 7 BACKGROUND: The birth weight and gestational age at birth are two important variables that define neonatal morbidity and mortality. In developed countries, chronic maternal diseases like hypertension, diabetes mellitus, renal disease or collagen vascular disease is the most common cause of intrauterine growth restriction (IUGR). Maternal nutrition, pregnancy induced hypertension, chronic maternal infections, and other infections such as cytomegalovirus, parvovirus, rubella and malaria are the other causes of IUGR. The present study examines the secular trend of Small for Gestational Age (SGA) over 15 years and risk factors for SGA from a referral hospital in India. METHODS: Data from 1996 to 2010 was obtained from the labour room register. A rotational sampling scheme was used i.e. 12 months of the year were divided into 4 quarters. Taking into consideration all deliveries that met the inclusion criteria, babies whose birth weights were less than 10(th) percentile of the cut off values specific for gestational ages, were categorized as SGA. Only deliveries of live births that occurred between 22 and 42 weeks of pregnancy were considered in this study. Besides bivariate analyses, multivariable logistic regression analysis was done. Nagelkerke R(2)	PMID: 25645738 PMCID:PMC4324804 WOS:000350017100001	INT

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	statistics and Hosmer and Lemeshow chi-square statistics were used as goodness of fit statistics. RESULTS: Based on the data from 36,674 deliveries, the incidence of SGA was 11.4% in 1996 and 8.4% in 2010. Women who had multiple pregnancies had the higher odds of having SGA babies, 2.8 (2.3-3.3) times. The women with hypertensive disease had 1.8 (1.5-1.9) times higher odds of having SGA. Underweight women had 1.7 (1.3 - 2.1) times and anaemic mothers had 1.29 (1.01 - 1.6) times higher odds. The mothers who had cardiac disease were 1.4 (1.01 - 2.0) times at higher odds for SGA. In teenage pregnancies, the odds of SGA was 1.3 (1.1 - 1.5) times higher than mothers in the age group 20 to 35 years. CONCLUSIONS: There is a significant reduction in the incidence of SGA by 26% over 15 years. The women with the above modifiable risk factors need to be identified early and provided with health education on optimal birth weight. Address: Department of Biostatistics, Christian Medical College, Vellore, India. tunnysebastian2006@yahoo.com. Department of Biostatistics, Christian Medical College, Vellore, India. jey@hotmail.com. Department of Biostatistics, Christian Medical College, Vellore, India. ljey@hotmail.com. Department of Disterrics and Gynecology Unit IV, Christian Medical College, Vellore, 632002, India. reetavijayaselvi@gmail.com. Department of Obstetrics and Gynecology Unit IV, Christian Medical College, Vellore, 632002, India. rubyjose1@gmail.com.		
430.	Sekar S(1), Burad D(2), Abraham A(3), Paul MJ(1). Adrenal incidentaloma caused by extramedullary haematopoiesis: conservative management is optimal. BMJ Case Rep. 2015 Sep 21;2015. pii: bcr2015211014. doi: 10.1136/bcr-2015-211014. Author information: (1)Department of Endocrine Surgery, Christian Medical College, Vellore, Tamil Nadu, India. (2)Department of Pathology, Christian Medical College, Vellore, Tamil Nadu, India. (3)Department of Haematology, Christian Medical College,	PMID: 26392447	INT
	Vellore, Tamil Nadu, India. We present a thalassaemic patient with extramedullary haematopoiesis in the adrenal gland, which is one of the rare sites of involvement. A 29-year-old man presented with a history of anaemia since childhood which required blood transfusion recently. On examination, he had pallor, icterus and splenomegaly with no other palpable abdominal mass. He was diagnosed to have β-thalassaemia. Ultrasonography of the abdomen showed an incidental right adrenal mass with splenomegaly; CT revealed a large right adrenal mass with heterogeneous density. Adrenal adenoma, carcinoma and extramedullary haematopoiesis were considered in the differential diagnosis. After excluding a functioning tumour, the diagnosis was confirmed by ultrasound-guided biopsy. Since the patient was asymptomatic, the adrenal lesion was managed conservatively.		
431.	Selot R, Balakrishnan B, Cheemadan S, Govindarajan S, Gadkari R, Srinivasan N, et al. Successful Gene Transfer in Passively Immunized Mice With Immunologically-Inert AAVrh.10 Vectors. Molecular Therapy. 2015;23:S179-S.	WOS:000359951700455	INT
432.	Selvakumar R, Agarwal S. A Case-Control Study of Lipoprotein(a) Levels in Atherosclerotic Peripheral Arterial Occlusive Disease in Indian Population: Original Study. Journal of Vascular Surgery. 2015;61(6):39S-S	WOS:000361884200069	INT

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		W00 00000400400455	TNIT
433.	Selvaraj A. Vitamin D and Severe Peripheral Arterial Disease: Is There a Reason for Concern? Journal of Vascular	WOS:000361884200155	INT
	Surgery. 2015;61(6):83S-S.		
	Journal of Vascular Surgery, Vol. 61, Issue 6, p83S		
	Published in issue: June 2015		
	http://dx.doi.org/10.1016/j.jvs.2015.04.160		
	Author Address:		
434.	Andrew D. Selvaraj; Christian Medical College, Vellore, India Selvaraj, J., Kekre, A. N., Varghese, L. and Jacob, K. S.	PMID: 25744339	INT
434.	Symptoms, prevalence, and risk factors of overactive bladder in women in south India	WOS:000355710200024	TINI
	Int J Gynaecol Obstet; 2015, 129 (3): 274-5	W03.000333710200024	
	Address: Department of Obstetrics and Gynecology, Christian Medical College, Vellore, India.		
	Department of Obstetrics and Gynecology, Christian Medical College, Vellore, India. Electronic address:		
	ankekre@gmail.com.		
10-	Department of Psychiatry, Christian Medical College, Vellore, India.	DMC4506222	
435.	Semler MW(1), Weavind L, Hooper MH, Rice TW, Gowda SS, Nadas A, Song Y, MartinJB, Bernard GR, Wheeler AP.	PMC4506222, PMID: 25867906	INT
	An Electronic Tool for the Evaluation and Treatment of Sepsis in the ICU: A	WOS:000369256100023	
	Randomized Controlled Trial.	W03.000303230100023	
	Crit Care Med. 2015 Aug;43(8):1595-602. doi: 10.1097/CCM.00000000000000000000000000000000000		
	Author information:		
	(1)1Division of Allergy, Pulmonary, and Critical Care Medicine, Vanderbilt University School of Medicine,		
	Nashville, TN. 2Division of Anesthesiology Critical Care Medicine, Vanderbilt University, Nashville, TN.		
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	Christian Medical College Hospital, Vellore, Tamil Nadu, India. 5Institute for Software Integrated Systems,		
	Vanderbilt University School of Engineering, Nashville, TN. 6Department of Biostatistics, Vanderbilt University		
	School of Medicine, Nashville, TN. 7Department of Internal Medicine, Meharry Medical College, Nashville, TN.		
	Comment in Crit Care Med. 2015 Aug;43(8):1776-7.		
	OBJECTIVES: To determine whether addition of an electronic sepsis evaluation and management tool to		
	electronic sepsis alerting improves compliance with treatment guidelines and clinical outcomes in septic ICU		
	patients. DESIGN: A pragmatic randomized trial. SETTING: Medical and surgical ICUs of an academic,		
	tertiary care medical center. PATIENTS: Four hundred and seven patients admitted during a 4-month period		
	to the medical or surgical ICU with a diagnosis of sepsis established at the time of admission or in response to an electronic sepsis alert. INTERVENTIONS: Patients were randomized to usual care or the availability of		
	an electronic tool capable of importing, synthesizing, and displaying sepsis-related data from the medical		
	record, using logic rules to offer individualized evaluations of sepsis severity and response to therapy,		
	informing users about evidence-based guidelines, and facilitating rapid order entry. MEASUREMENTS AND		
	MAIN RESULTS: There was no difference between the electronic tool (218 patients) and usual care (189		
	patients) with regard to the primary outcome of time to completion of all indicated Surviving Sepsis		
	Campaign 6-hour Sepsis Resuscitation Bundle elements (hazard ratio, $1.98$ ; $95\%$ CI, $0.75-5.20$ ; $p = 0.159$ )		

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	or time to completion of each element individually. ICU mortality, ICU-free days, and ventilator-free days did not differ between intervention and control. Providers used the tool to enter orders in only 28% of available cases. CONCLUSIONS: A comprehensive electronic sepsis evaluation and management tool is feasible and safe but did not influence guideline compliance or clinical outcomes, perhaps due to low utilization.		
436.	Sen D, Vemula P, Jayandharan G. Intra-Articular Gene Transfer of miR-15b Attenuates Molecular Mediators of Hemophilic Arthropathy in a Murine Model of Hemophilia. Molecular Therapy. 2015;23:S96-S7.	WOS:000359951700247	INT
437.	<ul> <li>Sen I(1), Stephen E(2), Agarwal S(2), Rebekah G(3), Nair SC(4).</li> <li>Analytical performance of a point-of-care device in monitoring patients on oral anticoagulation with vitamin K antagonists.</li> <li>Phlebology. 2015 Sep 27. pii: 0268355515608569. [Epub ahead of print]</li> <li>Author information: <ul> <li>(1)Department of Vascular Surgery, Christian Medical College, Vellore, India</li> <li>dr.indranisen@gmail.com. (2)Department of Vascular Surgery, Christian Medical College, Vellore, India.</li> <li>(3)Department of Biostatistics, Christian Medical College, Vellore, India.</li> <li>BACKGROUND: [Please check the following sentence for clarity: "Point-of-care devices measuring international normalized ratio have clinical appeal, reports of 'off-label' in-hospital/primary care use report improved time to intervention/dose adjustment."]Point-of-care devices measuring international normalized ratio have clinical appeal, reports of 'off-label' in-hospital/primary care use report improved time to intervention/dose adjustment."]Point-of-care international normalized ratio result of patients on oral anticoagulation at the Vascular Surgery clinic was compared to the reference to check for statistical and clinical correlation. This was a prospective case-control study design with sample size calculated for sensitivity of 87.5%, precision 5% and desired confidence level 95%. RESULTS: There were 168 patients tested; 55% were male, the mean age was 45.4. Sixty per cent were in the target international normalized ratio range. Tests were done for statistical and clinical correlation. International normalized ratio ange using the point-of-care device was 0.8-7.5 (reference lab 0.8-10), mean international normalized ratio was 2.22±1.6 (point-of-care device) compared to 2.46±1.3 (reference lab). The mean absolute difference was 0.79±0.92 and the mean relative difference was 8.1%±1.03. Data was analysed using a Bland-Altman plot yielding a mean of 0.738 (standard deviation 0.92). Concordance between the tests was 7</li></ul></li></ul>	PMID: 26415605	INT
	potential utility only where access to a reference lab is difficult. © The Author(s) 2015.		

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438.	<ul> <li>Senapati, J., Devasia, A. J., Alex, A. A. and George, B.</li> <li>Early T cell precursor lymphoid blast crisis of chronic myeloid leukemia - a novel transformation</li> <li>Hematol Oncol Stem Cell Ther; 2015, 8 (1): 43-6</li> <li>Address: Department of Clinical Haematology, Christian Medical College and Hospital, Vellore 632004, India.</li> <li>Electronic address: jsalwayswins@gmail.com.</li> <li>Department of Clinical Haematology, Christian Medical College and Hospital, Vellore 632004, India. Electronic address: dranupjdevasia@gmail.com.</li> <li>Department of Clinical Haematology, Christian Medical College and Hospital, Vellore 632004, India. Electronic address: ansu@cmcvellore.ac.in.</li> <li>Department of Clinical Haematology, Christian Medical College and Hospital, Vellore 632004, India. Electronic address: ansu@cmcvellore.ac.in.</li> <li>Department of Clinical Haematology, Christian Medical College and Hospital, Vellore 632004, India. Electronic address: ansu@cmcvellore.ac.in.</li> </ul>	PMID: 25497977	INT
439.	<ul> <li>Sengupta M(1), Anandan S(2), Daniel D(3), Prakash JA(4).</li> <li>Scrub Typhus Seroprevalence in Healthy Indian Population.</li> <li>J Clin Diagn Res. 2015 Oct;9(10):DM01-2. doi: 10.7860/JCDR/2015/14708.6623. Epub 2015 Oct 1.</li> <li>(1)Post Graduate Registrar, Department of Clinical Microbiology, Christian Medical College , Vellore, India .</li> <li>(2)Associate Professor, Department of Clinical</li> <li>Microbiology, Christian Medical College , Vellore, India . (3)Professor, Department of Transfusion Medicine and Immunohaematology, Christian MedicalCollege , Vellore, India .</li> <li>Scrub typhus, a zoonosis caused by Orientia tsutsugamushi, is an important cause of acute febrile illness in India. This preliminary study determines the seroprevalence of scrub typhus in healthy Indian adults by measuring IgM and IgG antibodies to scrub typhus in adults. Further studies are needed to confirm these findings especially in children.</li> </ul>	PMID: 26557523	NAT
440.	Senthilvelkumar T(1), Magimairaj H(2), Fletcher J(3), Tharion G(2), George J(2). Comparison of body weight-supported treadmill training versus body weight-supported overground training in people with incomplete tetraplegia: a pilot randomized trial. Clin Rehabil. 2015 Jan;29(1):42-9. doi: 10.1177/0269215514538068. Epub 2014 Jun 25. Author information: (1)Physical Therapy Unit, Rehabilitation Institute, Department of Physical Medicine and Rehabilitation, Christian Medical College, Tamil Nadu, India sentheel@gmail.com. (2)Department of Physical Medicine and Rehabilitation, Christian Medical College, Tamil Nadu, India. (3)Physical Therapy Unit, Rehabilitation Institute, Department of Physical Medicine and Rehabilitation, Christian Medical College, Tamil Nadu, India. OBJECTIVE: To compare the effectiveness of body weight-supported treadmill training and body weight-supported overground training for improving gait and strength in people with traumatic incomplete tetraplegia. DESIGN: Assessor blinded randomized trial.	PMID: 24965958 WOS:000347971800005	INT

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	SETTING: Rehabilitation institute of a tertiary care teaching hospital in India. PARTICIPANTS: Sixteen participants with traumatic motor incomplete tetraplegia and within two years of injury. INTERVENTIONS: Participants were randomised to one of two groups: body weight-supported overground training on level ground and body weight-supported treadmill training. Both groups received 30 minutes of gait training per day, five days a week for eight weeks. In addition, both groups received regular rehabilitation which included flexibility, strength, balance, self care and functional training. OUTCOME MEASURES: The primary outcome measure was the Walking Index for Spinal Cord Injury (/20 points) and the secondary outcome was the Lower Extremity Muscle Score (/50 points). RESULTS: There was no statistically significant between group differences in the Walking Index for Spinal Cord Injury [mean difference=0.3points; 95% CI (-4.8 to 5.4); p=0.748] or the Lower Extremity Muscle Score [mean difference=0.2 points; 95% CI (-3.8 to 5.1); p=0.749]. CONCLUSIONS: Gait training with body weight-supported overground training is comparable to treadmill training for improving locomotion in people with traumatic incomplete tetraplegia. © The Author(s) 2014.		
441.	Serban M, Kessler C, Werner S, Schwartz B, Peras S, Knaub S, et al. Management Of Surgeries In Von Willebrand Disease Patients Using A Human Native VWF/FVIII Concentrate In A Physiological 1:1 Ratio. Haemophilia. 2015;21:91-2.	WOS:000348680100153	INT
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	determine the influence of maternal and preweaning serological status on childhood cryptosporidiosis. Fifty two percent (N = 78) of mothers and 20% (N = 30) of children were seropositive preweaning. However, most postive preweaning samples from children were collected early in life indicating transplacental transfer and subsequent rapid waning of antibodies. Although 62% (N = 94) of children had a parasitologically confirmed cryptosporidial infection (detected by stool polymerase chain reaction) during the follow-up, only 54% (N = 51) of children were seropositive postinfection. Given there were striking differences in seropositivity depending on when the sample was collected, even though Cryptosporidium was detected in the stool of the majority of the children, this study indicates that antibodies wane rapidly. During follow-up, the acquisition or severity of cryptosporidial infections was not influenced by maternal (P = 0.331 and 0.720, respectively) as well as the preweaning serological status of the child (P = 0.076 and 0.196, respectively).©		

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110	The American Society of Tropical Medicine and Hygiene.	DMID: 26470051	NAT
443.	Shakti L, Veeraraghavan B(1). Advantage and limitations of nitrofurantoin in multi-drug resistant Indian scenario.	PMID: 26470951 WOS:000363279900002	NAT
	Indian J Med Microbiol. 2015 Oct-Dec;33(4):477-81. doi: 10.4103/0255-0857.167350.		
	Author information: (1)Department of Microbiology, Christian Medical College, Vellore, Tamil Nadu,India.		
	Infections caused by antibiotic resistant pathogens are of significant concern and are associated with higher mortality and morbidity. Nitrofurantoin is a broad-spectrum bactericidal antibiotic and is effectively used to treat urinary tract infections (UTIs) caused by E. coli, Klebsiella sp., Enterobacter sp., Enterococcus sp. and Staphylococcus aureus. It interfere with the synthesis of cell wall, bacterial proteins and DNA of both Gram positive and Gram negative pathogens. Nitrofurantoin has been used successfully for treatment and prophylaxis of acute lower urinary tract infections. With the emergence of antibiotic resistance, nitrofurantoin has become the choice of agent for treating UTIs caused by multi-drug resistant pathogens.		
444.	Shanthi P, Francis D, Suganthy J. Colour plastination - A valuable tool for medical education. Journal of the Anatomical Society of India. 2015;64(2):152-4. doi: 10.1016/j.jasi.2015.10.009	WOS:000369176600010	NAT
	Corresponding author at: Department of Anatomy, Christian Medical College, Vellore 632 002, India. Copyright © 2015 Anatomical Society of India. Published by Elsevier, a division of Reed Elsevier India, Pvt. Ltd. All rights reserved.		
445.	Shanthi, P., Singh, R. R., Gibikote, S. and Rabi, S. Comparison of CT numbers of organs before and after plastination using standard S-10 technique Clin Anat; 2015, 28 (4): 431-5 Plastination is the art of preserving biological tissues with curable polymers. Imaging with plastinates offers a unique opportunity for radiographic, anatomical, pathological correlation to elucidate complex anatomical relationships. The aim of this study was to make plastinates from cadavers using the standard S-10 plastination technique and to compare the radiological properties of the tissue before and afterwards to examine the suitability of plastinates as phantoms for planning radiotherapy treatment. An above-diaphragm and a below-diaphragm specimen were obtained from a male and a female cadaver, respectively, and subjected to the standard S-10 plastination technique. CT images were obtained before and after plastination and were compared using Treatment Planning System for anatomical accuracy, volume of organs, and CT numbers. The plastinated specimens obtained were dry, robust, and durable. CT imaging of the plastinated specimens showed better anatomical detail of the organs than the preplastinate. Organ volumes were estimated by contouring the organs' outline in the CT images of the preplastinated and postplastinated specimens, revealing an average shrinkage of 25%. CT numbers were higher in the plastination by the standard S-10 technique preserves anatomical accuracy, it increases the CT numbers of the organs because of the density of silicone, making it unsuitable for radiation dosimetry. Further improvements of the technique could yield more suitable plastinated phantoms. Address: Department of Anatomy, Christian Medical College, Vellore, India.	PMID: 25708008 WOS:000353041400005	INT

446.	Sharma A, Danda D, Chandran V.	WOS:000352022700001	INT
	Which is worse in psoriasis - skin or joints?		
	International Journal of Rheumatic Diseases. 2015;18(1):1-2. doi: 10.1111/1756-185X.12647		
447.	Shetty S(1), Kapoor N(1), Jeyaraj V(2), Roy AC(3), Paul TV(1).	PMID: 26121458	INT
	Visual Vignette.		
	Endocr Pract. 2015 Aug;21(8):975. doi: 10.4158/EP15743.VV. Epub 2015 Jun 29.		
	Author information:		
	(1)1 From the Department of Endocrinology, Diabetes & Metabolism, Christian		
	Medical College & Hospital, Vellore, India. (2)2 Department of General Pathology, Christian Medical College &		
	Hospital, Vellore, India. (3)3 Department of Orthopedics, Christian Medical College & Hospital, Vellore, India.		
448.	$\frac{1}{1}$	PMC4535117,	NAT
448.	Shetty S(1), Sathyakumar S(1), Kapoor N(1), Paul TV(1). An uncommon cause for hip pain and limping.	26288794	INAT
	An uncommon cause for hip pain and imping.	20200/94	
	J Family Med Prim Care. 2015 Jul-Sep;4(3):468-9. doi: 10.4103/2249-4863.161357.		
	$\int \frac{1}{2} \int $		
	Author information:		
	(1)Department of Endocrinology, Diabetes and Metabolism, Christian Medical		
	College, Vellore, Tamil Nadu, India.		
	Slipped capital femoral epiphysis (SCFE) is characterized by displacement of the capital femoral epiphysis		
	from the femoral neck. An 18-year-old male presented with left hip pain and a limping gait, following a trivial		
	trauma. Radiological examination revealed bilateral SCFE. Clinically and biochemically, he had features of		
	hypopituitarism. His prolactin levels were high and magnetic resonance imaging (MRI) scan showed a		
	pituitary macroadenoma, suggesting a diagnosis of macroprolactinoma causing hypopituitarism and		
	presenting as SCFE. Hewas started on dopamine agonist cabergoline as well as thyroxine and glucocorticoid		
	replacement treatment. He was also scheduled for an orthopaedic surgical procedure for his SCFE.		
449.	Shetty, S., Kapoor, N., Cherian, V. M. and Paul, T. V.	PMID: 25576514	INT
	An unusual treatable cause for proximal muscle weakness		
	BMJ Case Rep. 2015 Jan 9;2015. pii: bcr2014208731. doi: 10.1136/bcr-2014-208731.		
	Address: Christian Medical College, Vellore, Tamil Nadu, India. Department of Orthopedics, Christian Medical		
	College, Vellore, Tamil Nadu, India.		
450.	Shetty, S., Kapoor, N., John, R. A. and Paul, T. V.	PMID: 26023587	NAT
	Olfactory Agenesis in Kallmann Syndrome (KS)	4437102: 4437102	
	J Clin Diagn Res; 2015, 9 (4): OJ01		
	Address: Senior Registrar, Department of Endocrinology, Diabetes & Metabolism, Christian Medical College &		
	Hospital , Vellore, India .		
	Assistant Professor, Department of Endocrinology, Diabetes & Metabolism, Christian Medical College &		
	Hospital , Vellore, India .		
	Assistant Professor, Department of Radio Diagnosis, Christian Medical College & Hospital, Vellore, India.		
	Professor, Department of Endocrinology, Diabetes & Metabolism, Christian Medical College & Hospital,		
	Vellore, India .		

451.	Shetty, S., Nayak, R., Kapoor, N. and Paul, T. V. An uncommon cause for compressive myelopathy BMJ Case Rep; 2015, 2015 Address: Department of Endocrinology, Christian Medical College, Vellore, Tamil Nadu, India.	PMID: 25737225	INT
452.	Shonima A Viswanathan, Jasmin Prasad, K. S Jacob, Anju Kuruvilla Sexual function in women in rural Tamil Nadu: Disease, dysfunction, distress and norms Indian J Psychiatry. 2015 Jan; 57(Suppl 1): S113–S159. Christian Medical College, Vellore, India. Emails: com@vaaninohs.gmail, emcvellore.ac.in@bioajsk,emcvellore.ac.in@ujnas Keyword: Sexual function, prevalence, distress, explanatory models Background: Female sexual disorders are complex, diverse and associated with multiple biological, medical and psychological factors. They are often not recognized, diagnosed and managed. Whereas there are many studies from the West, epidemiological data on FSD from the Indian subcontinent are limited. Objectives: We examined the nature, prevalence and explanatory models of sexual concerns and dysfunction among women in rural Tamil Nadu. Materials and Methods: Married women between 18 and 65 years of age, from randomly selected villages in Kaniyambadi block. Vellore district, Tamil Nadu, were chosen by stratified sampling technique. Sexual functioning was assessed using the Female Sexual Function Index (SFFI). The modified Short Explanatory Model Interview (SEMI) was used to assess beliefs about sexual concerns and the General Health Questionnaire-12 (GHQ-12) was used to screen for common mental disorders. Sociodemographic variables and other risk factors were also assessed. Results: Most of the women (277; 98. 2%) contacted agreed to participate in the study. The prevalence of sexual dysfunction, based on the cut-off score on the FSFI, was 64. 3%. However, only a minority of women considered it a problem (4. 7%), expressed dissatisfaction (5. 8%) or sought medical help (2. 5%). The most common explanatory models offered for sexual problems included an unhappy marriage, stress and physical problems. Factors associated with lower FSFI included older age, illiteracy, as well as medical illness and sexual and marital factors such menopause, poor quality of marital relationship, history of physical abuse, and lack of privacy. Con	WOS:000366494300456	NAT
453.	Shweta S, Boaz RJ Phytomedicine and the Nobel Prize: Benefits of integrating traditional remedies into modern medicine. Indian J Pharmacol. 2015 Nov-Dec;47(6):698-9. doi: 10.4103/0253-7613.169595. Department of Medicine, Church of South India Hospital, Bangalore, Karnataka, India. (2)Department of Urology, Christian Medical College, Vellore, Tamil Nadu, India.	PMC4689034 PMID: 26729972 WOS:000365695600027	NAT
454.	Shyam Sundar*, Abu Philip, Deepa Braganza Case report-NMS in a mentally retarded patient with low dose of T. Risperidone <u>Indian J Psychiatry. 2015 Jan; 57(Suppl 1): S113-S159.</u>	WOS:000366494300389.	NAT

	Christian Medical college, India. E-mails: <u>moc.liamg@111masrd</u> , <u>nica.erollevcmc@apeed</u> Keyword: Mental retardation, neuroleptic malignant syndrome, Risperidone. Background: NMS appears to have increased incidence rate in people with intellectual disabilities although the exact mechanisms behind this are not clear. In people with mental retardation, the classical symptoms may not be always present and also might be difficult to elicit as most of them are not able to have an effective verbal communication. The early detection of NMS in this special population is a challenge. Also, the chances of long term morbidity and mortality secondary to NMS remain high in people with mental retardation. This case report describes about a patient with moderate mental retardation who developed NMS secondary to treatment with just 2mg of Tab. Risperidone. The diagnosis of NMS was difficult in this case as patient was not able to have effective verbal communication (secondary to mental retardation) and also considering the fact that NMS is least expected with such a minimal dose of anti-psychotic medication. We would recommend that psychotropic drug use in people with mental retardation requires special precaution and they should be closely monitored for development of any adverse effects. This case report also supports previous studies employing ECT as an effective and safe therapeutic option for people with mental retardation in the recovery phase of NMS. More detailed studies need to be done to find out the various factors associated with low tolerance of this special population to various psycho-tropic drugs.		
455.	<ul> <li>Sidhu A(1), Sheikh N, Chavhan G, Mann E, Ramakantan R, Jankharia B, Gibikote S, Keshava SN, Shroff M. Improving pediatric radiology in India.</li> <li>Pediatr Radiol. 2014 Jun;44(6):657-65. doi: 10.1007/s00247-013-2868-x. Epub 2014 Jan 18.</li> <li>Erratum in Pediatr Radiol. 2015 Feb;45(2):302.</li> <li>Author information: <ul> <li>(1)Department of Diagnostic Imaging, Hospital for Sick Children, University of Toronto, Toronto, Canada.</li> </ul> </li> <li>BACKGROUND: India had a population of 1,259,271,000 in 2012, with 31% of its population composed of children younger than 15 years. In comparison, children younger than 15 compose 20% of the population in the United States and 16% in Canada. Despite the differences in this demographic, little emphasis is placed on pediatric radiology in India. OBJECTIVE: To conduct a needs assessment evaluating the adequacy of pediatric radiology in India. OBJECTIVE: To conduct a needs assessment evaluating the adequacy of pediatric radiology in India. OBJECTIVE: To conduct a needs assess radiologists' perspective on the quality of training in pediatric radiology. Responses were obtained from attendees at a pediatric radiology education program in India.</li> <li>MATERIALS AND METHODS: We developed a questionnaire to assess radiologists' perspective on the quality of training in pediatric radiology training at select institutions across India. RESULTS: Out of 86 respondents, 82% indicated that their academic institutions did not place emphasis on dedicated pediatric radiology training. Of the respondents, 77% said their institutions practiced pediatric radiology with inadequate standard of care and 75% of respondents said pediatric readiology would gain increasing importance in the future. Outcomes of the implemented program in India. CONCLUSION: Education and training in pediatric radiology in India is inadequate. Focused initiatives have the potential to improve the standards set for pediatric radiology in India is inadequate. Focused initiatives have the potential</li></ul>	PMID: 24442341 WOS:000349021100026	INT

456.	Simon B(1), Oommen SP, Shah K, Mani SE, Gibikote S. Cockayne syndrome: characteristic neuroimaging features. Acta Neurol Belg. 2015 Sep;115(3):427-8. doi: 10.1007/s13760-014-0390-z. Epub2014 Nov 9. Author information: (1)Department of Radiology, Christian Medical College, Vellore, 632004, India, drbettysimon@gmail.com.	PMID: 25381627 WOS:000360214500045	INT
457.	<ul> <li>Singh G(1), Girishan S, Selwyn T, Keshava SN.</li> <li>Differentiation Between the Potential Subdural Space and Subarachnoid Space WasDifficult With Fluoroscopy Due to Obesity.</li> <li>J Neurosurg Anesthesiol. 2015 Oct;27(4):359-60. doi: 10.1097/ANA.00000000000180.</li> <li>Author information: <ul> <li>(1)Departments of *Anaesthesiology †Neurosurgery ‡Radiology, Christian Medical College and Hospital, Vellore, Tamil Nadu, India.</li> </ul> </li> </ul>	PMID: 25844952 WOS:000369886500025	INT
458.	<ul> <li>Singh R(1), Balekuduru A, Simon EG, Alexander M, Pulimood A.</li> <li>The differentiation of amebic colitis from inflammatory bowel disease on endoscopic mucosal biopsies.</li> <li>Indian J Pathol Microbiol. 2015 Oct-Dec;58(4):427-32. doi: 10.4103/0377-4929.168880.</li> <li>(1)Department of Pathology, Christian Medical College and Hospital, Vellore, Tamil Nadu, India.</li> <li>BACKGROUND: Intestinal amebiasis is one of the important differential diagnoses of Inflammatory Bowel Disorders in areas where it is highly prevalent. AIM: Studies comparing the clinical, endoscopic and histological features of these disorders have never been done, so we undertook this study.</li> <li>MATERIALS AND METHODS: A retrospective study comparing mucosal biopsies of 14 consecutive cases of intestinal amebiasis, 56 biopsies from patients with Crohn's disease. A total of 65 biopsies from patients with 14 cases of Ulcerative colitis and 12 cases of Crohn's disease and 65 biopsies of patients with Ulcerative colitis were reviewed. RESULTS AND CONCLUSIONS: Discrete small ulcers less than 2 cm in diameter in the cecum or rectosigmoid, with intervening normal mucosa, were the most common finding on endoscopy in patients with amebiasis. On histology, necrotic material admixed with mucin, proteinaceous exudate and blood clot lining ulcers, significant surface epithelial changes such as shortening and tufting adjacent to sites of ulceration, mild chronic inflammation extending into the deep mucosa and mild architectural alteration were features of amebiasis. Trophozoite forms of ameba were seen in the necrotic material lining sites of ulceration or lying separately, as well as over intact mucosa. Necrotic material lining ulcers was less common in IBD, but chronic inflammation, crypt abscess formation and architectural alteration were more severe.</li> </ul>	PMID: 26549061 WOS:000370276400003	NAT

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459.	Singh RK(1), Isaac TJ(1), Thangakunam B(2), Mathews N(2), Korula A(2). Isolated pulmonary manifestation of IgG4 disease with response to steroids and relapse: A rare case report.	PMID: 26664186	NAT
	Lung India. 2015 Nov-Dec;32(6):659-61. doi: 10.4103/0970-2113.168110.		
	(1)Department of Pulmonary Medicine, Christian Medical College, Vellore, Tamil Nadu, India. E-mail: ranjitcmc.2011@gmail.com. (2)Department of Pathology, Christian Medical College, Vellore, Tamil Nadu, India.		
460.	Sinha, A., Shah, D. and Tharyan, P. Building capacity of Indian scientists to conduct systematic reviews in child health: an ICMR initiative Indian Pediatr; 2015, 52 (3): 195-8 Knowledge and training in evidence-based medicine is essential for informed clinical decision-making and treatment choices. Systematic reviews identify, appraise and synthesize research-based evidence and present it in accessible format. The Indian Council of Medical Research has promoted evidence-based medicine in India by establishing an Advanced Center for evidence based medicine that hosted the South Asian Cochrane Network and Center at the Christian Medical College, Vellore; procuring a national subscription to The Cochrane Library making it accessible to all Indian scientists; and establishing a Center for Advanced research on evidence- based child health at Post Graduate Institute of Medical Education and Research, Chandigarh. This article informs about a national level initiative by ICMR that aims to harness the translational potential of secondary research, by funding systematic reviews aligned to national health priorities selected through a national competitive process; and to provide training, mentoring, and quality assurance. A continuing scheme of funding high-quality systematic reviews on priority areas of Child Health may follow. Address: Indian Council of Medical Research, New Delhi, *University College of Medical Sciences, New Delhi; and #South Asian Cochrane Network and Centre, CMC Vellore, Tamil Nadu, India. Correspondence to: Dr Anju Sinha, Scientist D, Division of Reproductive Sciences and Child Health, Indian Council of Medical Research, Ansari Nagar, New Delhi 110 029, India. apadhandr@gmail.com.	PMID: 25848991	NAT
461.	Sirohi, B., Singh, A., Dawood, S. and Shrikhande, S. V. Advances in chemotherapy for pancreatic cancer Indian J Surg Oncol; 2015, 6 (1): 47-56 Pancreatic cancer remains challenging to treat. Over the past decade, there have been some major improvements in systemic therapy. Gemcitabine remains the key drug for both early and advanced cancer but combination chemotherapy is emerging as a new paradigm for patients with good performance status. This review focuses on current chemotherapy status for patients with pancreatic cancer. Address: Department of Medical Oncology, Mazumdar Shaw Cancer Centre, Narayana Health, Bangalore, India. Department of Medical Oncology, CMC, Vellore, India. Dubai Hospital, Dubai, UAE. Department of GI and HPB Surgery, Tata Memorial Centre, Mumbai, India.	PMID: 25937764 4412866: 4412866	NAT
462.	Sonbare, D. J. Organ Failure and Infection in Necrotizing Pancreatitis: What Are the Predictors of Mortality?	PMID: 25822673	INT
	Ann Surg; 2015, Address: Christian Medical College and Hospital, Vellore, Tamil Nadu, India.		
463.	Sonbare, D. J. Pulsion Diverticulum of the Oesophagus: More than just an Out Pouch Indian Journal of Surgery. 2015 Feb; 77(1): 44-8	PMID: 25829711 PMCID:PMC 4376845 WOS:000351769100010	NAT

	Oesophageal diverticulum is divided into two types based on the aetiology: the pulsion and the traction diverticula. Pulsion diverticulum occurs due to increased intraluminal pressure. This can be of three types based on the location along the oesophagus: the Zenker's diverticulum (ZD), the mid-oesophageal diverticulum (MD) and the epiphrenic diverticulum (ED). A PubMed search was conducted for the words 'pulsion', 'diverticulum' and 'oesophagus' for all studies published from January 1980 to March 2013 in the English language. A total of 31 studies were identified, and out of which, five were not included in the review. The pulsion diverticulum of the oesophagus is an uncommon disorder. Its aetiology is related to the motility disorders of the oesophagus. Patients usually present with chest-related symptoms or oesophageal symptoms, which are related to the underlying motility disorder. Evaluation includes barium studies, gastrointestinal endoscopy, CT scan and oesophageal manometry. Surgery is the treatment of choice for symptomatic and large diverticula, although the outcome in asymptomatic patients with ZD are now treated by using endoscopic techniques, although no randomised trial has shown its superiority over the open technique. Minimally invasive surgery has also been used for patients with MD and ED. Although isolated case series has shown good improvement in symptoms and reduction in mortality with minimally invasive techniques in patients with ED, its role in thoracic oesophageal diverticulum is debated. Address: Christian Medical College and Hospital, 4/2, New PG Quarters, Vellore, Tamil Nadu 632004 India.		
464.	Sreedharanunni S(1), Varma N, Sachdeva MU, Gupta K, Pai R, Kochhar R, Malhotra P, Varma S. CD103+ $\gamma\delta$ T cell large granular lymphocytosis in a patient with refractory celiac disease: a diagnostic enigma. Int J Hematol. 2015 Jun;101(6):603-7. doi: 10.1007/s12185-015-1736-x. Epub 2015 Jan 31. Author information: (1)Department of Hematology, Post Graduate Institute of Medical Education and Research (PGIMER), V Floor, SS Anand Block (Research Block A), Chandigarh, 160012, India, <u>dr.s.sreejesh@gmail.com</u> . Department of Pathology, Christian Medical College, Vellore 632004, Tamil Nadu, India. Indolent $\gamma\delta$ T cell lymphomas/leukemias are rare and overlap with the morphological spectrum of large granular lymphocyte (LGL) leukemia. We report an extremely rare case of CD103(+) $\gamma\delta$ T LGL leukemia in a patient with celiac disease who presented with refractory diarrhea. Whether the refractory diarrhea in our patient was a manifestation of LGL leukemia itself or whether the clonal LGL expansion is a manifestation of refractory celiac disease (RCD) remains an enigma. This report highlights the diagnostic difficulties and the need of consensus in categorizing clonal CD103(+) lymphocytosis in patients with RCD.	PMID: 25637255 WOS:000357519200012	INT
465.	<ul> <li>Sreekanth R(1), Thomas BP(2).</li> <li>Human Evolution: The Real Cause for Birth Palsy.</li> <li>West Indian Med J. 2015 Jun 26;64(4). doi: 10.7727/wimj.2014.083.</li> <li>(1)Dr Paul Brand Centre for Hand and Peripheral Nerve Surgery, Christian Medical College, Vellore, TN, India-632004. (2)Dr Paul Brand Centre for Hand Surgery Christian Medical College, Vellore, TN, India-632004. binu@cmcvellore.ac.in.</li> <li>OBJECTIVE: Birth palsy, otherwise known as obstetric brachial plexus paralysis (OBPP), is a closed stretch injury to the brachial plexus of nerves during the birth process resulting in varying degree of paralysis and contractures of the upper limb. This study aimed to find out the susceptibility of humans and small-bodied primates to birth palsy. METHOD: A comparative study on parturition in modern humans, hominoids,</li> </ul>	PMID: 26624599	INT

PMID - PUBMED ID; PMCID - PUBMEDCENTRAL ID; WOS - WEB OF SCIENCE ID

hominids, small-bodied primates and great apes was done to determine if the changes in female pelvis and neonatal head and shoulder during human evolution is the real cause for OBPP. RESULTS: During evolution, the morphology of the female pelvis and birth canal changed into a narrow and twisted one and also the size of the fetal head increased. Thus, the narrow and twisted pelvis of the mother, and the relatively large head and broad shoulders of the newborn has made the birthing process of modern human and small bodied primates a precarious fine-tuned act with a very narrow margin for error. This has necessitated proper	
obstetric care to reduce or even at times obviate the incidence of birth injuries like OBPP. CONCLUSION: Human evolution has made human babies susceptible to birth palsy and thus is the real cause of birth palsy.	
466.       Srinivasa Sivaram Kishore, Dheeraj Kattula, Deepa Braganza       -         Protein Powder Supplement With Steroids Induced Mania With Psychosis       -	NAT
Indian Journal of Psychiatry. 2015;57(5):S88-S.	
Author Address: CMC Vellore, India, dssrkishore@gmail.com, askdheeraj@gmail.com, <u>deepa@cmcvellore.ac.in</u>	
Keywords: Steroids,Mania With Psychotic Symptoms,Restricted Delusional Theme Background: Introduction: It is well known that patients with medical conditions on steroid therapy may develop steroid induced mood and psychotic disorders. Case Report: Mr. J is a 22 year old single male from a middle socioeconomic status family from an urban South Indian background. Premorbidly well adjusted, and described to have no deviant traits, he has no significant past or family history of neuropsychiatric morbidity. He is a fitness enthusiast. He began using a locally produced, labelled nutritional supplement, recommended by his fellow body builders five days prior to presentation. Instructed to take two spoons daily, he took four to five spoons a day. Three days later he developed abnormal behavior. He was brought to this centre with a three day history of reduced need for sleep, flight of ideas, pressure of speech, aggressive and assaultive behavior, and delusion of persecution with a delusional theme confined to that supplement where people would poison his food with that supplement and kill him Admitted in the acute care facility, as he was physically aggressive, he required both chemical and physical restraint. Within 24 hours he developed significant EPS with just 4 mg of Risperidone. However, symptom reduction was rapid and remission was seen within 48 hours. The temporal link of the onset of symptoms with the use of the supplement was striking. Unusual features included marked sensitivity to the side effects of antipsychotic, and rapid resolution of florid symptoms, that has maintained on follow up after 2 months. There are allegations that the supplements are opened, and resealed after addition of banned substances like anabolic steroids, and distributed to athletes via word of mouth. Nutritional supplements are available over the counter and doctors may be largely ignorant of their composition or safe limits of usage. The challenges of diagnosis, evaluation and management of a case with this presentation are discus	
467.       Srivastava A(1).         Current Issues in Hemophilia: Recognizing Clinical Heterogeneity, Replacement Therapy, and Outcome Assessment.       PMID: 26540611	)1 INT
Semin Thromb Hemost. 2015 Nov;41(8):816-8. doi: 10.1055/s-0035-1564801. Epub 2015 Nov 5. Department of Hematology, Christian Medical College, Vellore, India.	
468.         Srivastava A(1).         PMID: 26542253	INT

	Inflammation is key to hemophilic arthropathy.	WOS:000366390900005	
	Blood. 2015 Nov 5;126(19):2175-6. doi: 10.1182/blood-2015-09-665091.		
	(1)CHRISTIAN MEDICAL COLLEGE, VELLORE.		
469.	Srivastava A, Werner S, Serban M, Schwartz B, Knaub S, Kessler C.	WOS:000354025900059.	INT
	Management of Major Surgeries in von Willebrand Disease Patients Using a High-purity Human VWF/FVIII		
	Concentrate with a Physiological 1:1 Ratio. Haemophilia. 2015;21(3):E275-E		
470.	Srivastava, A., Werner, S., Serban, M., Schwartz, B. A., Knaub, S. and Kessler, C.	WOS:000356426903274	INT
	Major surgeries in children and adults with von willebrand disease managed with a high-purity human		
	VWF/FVIII concentrate in a physiological 1:1 ratio		
	Journal of Thrombosis and Haemostasis; 2015, 13 ((Srivastava A.) Department of Haematology, Christian		
	Medical College, Vellore, India): 503-504		
	Background: Major surgeries in patients with VWD can be associated with life-threatening risk of excessive		
	bleeding, thus prophylactic treatment with exogenous VWF/FVIII may be required. Aims: To evaluate the		
	overall haemostatic efficacy of a VWF/FVIII concentrate in a physiological 1:1 activity ratio in preventing		
	excessive surgical bleeding in children and adults with VWD, a prospective, open-label, multi-center, phase		
	III clinical study was conducted. Results for major surgeries are presented here. Methods: IVR was		
	investigated in all patients prior surgery for recommending individual dosing, which was to achieve VWF:RCo		
	peaks of 100% and to maintain trough levels around 50% until wound healing. Actual dosing was at the		
	discretion of the physician. VWF:RCo, VWF:Ag, and FVIII:C levels were collected throughout the study.		
	Haemostatic efficacy was assessed independently by surgeons and haematologists, using objective 4-point		
	ordinal efficacy scales. Assessments were adjudicated by an independent data monitoring committee. Safety		
	and immunogenicity were monitored throughout. Results: Twenty-one major surgeries in 20 patients were		
	treated in the study. The majority (17) were VWD type 3, 3 were VWD type 1 and 1 VWD type 2. Mean		
	loading dose (VWF:RCo) given was 55.5 IU kg-1 with a mean maintenance dose of 30 IU kg-1. Mean FVIII:C		
	and VWF:RCo peak levels for each patient during maintenance infusions (day 1-7 post surgery) ranged from		
	120-145%, and 66-98%, respectively, with no accumulation of FVIII:C. 95.2% of major surgeries managed		
	with the 1:1 VWF/FVIII concentrate had efficacy rated as excellent/good. There was no excessive or		
	uncontrolled intra- or postoperative bleeding or requirement for an alternate VWF/FVIII concentrate. No FVIII:C accumulation or thrombotic events were reported. No neutralizing VWF/FVIII inhibitors or study		
	drug-related serious adverse events were observed. Conclusion: This data confirms the safety and efficacy of		
	the 1:1 VWF/ FVIII concentrate for the management of major surgeries in VWD patients.		
	Address: A. Srivastava, Department of Haematology, Christian Medical College, Vellore, India		
471.	Starlin Vijay Mythri, Vivek Mathew	WOS:000366494300425	NAT
	Anti-NMDA receptor encephalitis presenting as catatonia: A case report		
	Indian J Psychiatry. 2015 Jan; 57(Suppl 1): S113-S159.		
	Christian Medical College, Vellore, India.		
	E-mails: moc.xmg@yajivnilrats, cmcvellore.ac.in@wehtamv		
	Keyword: Anti-NMDA receptor encephalitis, catatonia, neuropsychiatry		
	Introduction: Anti-NMDA receptor encephalitis is a newly recognised autoimmune condition. With its typical		
	clinical pattern, consistent association with the presence of auto antibodies against NR1 subunit of NMDA		
	receptor and rapid improvement with immunotherapy, this condition is giving insights into the boundaries		
	between psychiatry and other neurosciences and also is opening up avenues for future research.		
	Case report: Over few years, we in Christian Medical College have been able to identify and manage this		

	CINE SCIENTIFIC FOBLICATION FOR THE TEAK 2013 (JANOART TO DECL		
	condition. In this poster, we would like to present a particular patient who presented initially with a catatonia like picture to a psychiatrist; and then later to our neurology department where after ruling out other aetiologies, NMDA receptor encephalitis was considered in view of the pattern of development of the illness and epidemiological characteristics. After we got the positive antibody test, we saw a gradual improvement in her cognitive function with immunotherapy though the motor deficits persisted. Discussion: The nature and function of NMDA receptors and patho-physiology involved in the development of this particular encephalitis is discussed. The great opportunity and avenue for research in this area is discussed along with an appeal to temper the enthusiasm by considering the historical lessons which psychiatry has learnt from Karl Jaspers' critique of General Paresis of Insane. The nosological status and broader conceptualization of catatonia is reviewed. The need for newer ways of investigating, teaching and practicing psychiatry has been emphasized.		
472.	<ul> <li>Stephen MC(1), Mathew J(2), Varghese AM(2), Kurien M(2), Mathew GA(2).</li> <li>A Randomized Controlled Trial Comparing Intranasal Midazolam and Chloral Hydrate for Procedural Sedation in Children.</li> <li>Otolaryngol Head Neck Surg. 2015 Dec;153(6):1042-50. doi:</li> <li>10.1177/0194599815599381. Epub 2015 Aug 18.</li> <li>Author information:</li> <li>(1)Department of Otolaryngology, Speech, and Hearing, Christian Medical College, Vellore, India sharafine@gmail.com. (2)Department of Otolaryngology, Speech, and Hearing, Christian Medical College, Vellore, India.</li> <li>OBJECTIVES: To evaluate the efficacy and safety of intranasal midazolam and chloral hydrate syrup for procedural sedation in children. STUDY DESIGN: Prospective randomized placebo-controlled trial (double blind, double dummy). SETTING: Tertiary care hospital over 18 months. SUBJECTS AND METHODS: Eighty-two children, 1 to 6 years old, undergoing auditory brainstem response testing were randomized to receive either intranasal midazolam with oral placebo or chloral hydrate syrup with placebo masal spray. Intranasal midazolam was delivered at 0.5 mg/kg (100 mcg per spray) and oral syrup at 50 mg/kg. Children not sedated at 30 minutes had a second dose at half the initial dose. The primary outcomes measured were safety and efficacy. Secondary outcomes were time to onset of sedation, parental separation, parental satisfaction, audiogoist's satisfaction, time to recovery, and number of attempts. RESULTS: Forty-one children were in each group, and omajor adverse events were noted. The chloral hydrate group showed earlier onset of sedation (66%) compared with the intranasal midazolam group (138%). Significant difference in time to recovery was noted in the chloral hydrate group (78 minutes) versus the intranasal midazolam group (108 minutes). The parents' and audiologist's satisfaction was higher for chloral hydrate (95% and 75%) than for intranasal midazolam and chloral hydrate versus 51% with intranasal midazolam. Both drugs maintained sedat</li></ul>	PMID: 26286872 WOS:000365743700027	INT
473.	Storebø OJ(1), Krogh HB(2), Ramstad E(2), Moreira-Maia CR(3), Holmskov M(4),Skoog M(5), Nilausen TD(4), Magnusson FL(4), Zwi M(6), Gillies D(7), RosendalS(8), Groth C(9), Rasmussen KB(4), Gauci D(10),	PMID: 26608309 WOS:000365692600001	INT

<ul> <li>Kirubakaran R(11), Forsbøl B(12), Simonsen E(13), Gluud C(14).</li> <li>Methylphenidate for attention-defici/hyperactivity disorder in children and adolescents: Cochrane systematic review with meta-analyses and trial sequential analyses of randomised clinical trials.</li> <li>BMJ. 2015 Nov 25;351:h5203. doi: 10.1136/bmi.h5203.</li> <li>(1)Psychiatric Research Unit, Region Zealand, Denmark Department of Adolescent Psychiatric Research Unit, Region Zealand, Denmark Ost@regionsjaelland.dk.</li> <li>(2)Psychiatric Research Unit, Region Zealand, Denmark Child and Adolescent Psychiatric Research Unit, Region Zealand Psychiatry, Demmark Child and Adolescent Psychiatric Research Unit, Region Zealand Psychiatry, Demmark Child and Adolescent Psychiatric Research Unit, Region Zealand Psychiatry, Demmark Child and Adolescent Psychiatric Research Unit, Region Zealand Psychiatry, Demmark (3) Copantinem, (5) Copanhagen Trial Unit, Research Unit, Region Zealand Psychiatry, Demmark (3) Copantinem, (5) Copanhagen Trial Unit, Research Unit, Region Zealand Psychiatry, Centre North Zealand, The Capital Region of Demmark, (9) Pediatric Department of Psychiatric Remark (3) Psychiatric Research Unit, Region Zealand Psychiatry, Demmark, Child Capital Health, Orthong, UK, C) Western Syndpiel, Cent Health, Child Capital, Health, Uniteris Netholatical Capital Region of Demmark, (9) Pediatric Department, Heiley University Hospital, Healty, Demmark, Capital Region of Demmark, Olege, Velore, Prof BW Moese Center for Evidence-Informed Health Care and Health Palicy, Christian Medical College, Velore, Facuty of Health, GMangia, Malta, (11) South Asian Cochrane Network &amp; Center, Prof BW Moese Center for Evidence-Informed Health Care and Health Palicy, Christian Medical College, Velore, Facuty of Health, GMangia, Beat, Care Sacuty, Righospitalet, Copenhagen Trial Unit, Centre for Clinical Medicine Cochrane Network in Status et al. (13) Psychiatric Research, Rigshospitalet, Copenhagen Trial Unit, Centre for Clinical Me</li></ul>		-	
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PMID - PUBMED ID; PMCID - PUBMEDCENTRAL ID; WOS - WEB OF SCIENCE ID

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	adolescents with a diagnosis of ADHD, methylphenidate may improve teacher reported symptoms of ADHD and general behaviour and parent reported quality of life. However, given the risk of bias in the included studies, and the very low quality of outcomes, the magnitude of the effects is uncertain. Methylphenidate is associated with an increased risk of non-serious but not serious adverse events. FUNDING, COMPETING INTERESTS, DATA SHARING: Region Zealand Research Foundation and Copenhagen Trial Unit. Competing interests are given in the full paper on bmj.com. Full data are available in the version of this review published in The Cochrane Library.		
474.	Subashini, B., Anandan, S. and Balaji, V. Evaluation of a rapid antigen detection test for the diagnosis of group-A beta-hemolytic Streptococcus in pharyngotonsillitis J Glob Infect Dis; 2015, 7 (2): 91-2 Address: Department of Clinical Microbiology, Christian Medical College and Hospital, Vellore - 632 004, Tamil Nadu, India.	PMID: 26069433 PMCID: PMC4448335	NAT
475.	Sudhakar SV(1), Muthusamy K(2), Mani S(3), Gibikote S(3), Shroff M(4). Imaging in Pediatric Demyelinating and Inflammatory Diseases of the Brain- Part1. Indian J Pediatr. 2015 Dec 4. [Epub ahead of print] (1)Department of Radiodiagnosis, Christian Medical College and Hospital, Vellore, Tamil Nadu, 632004, India. sniya.sudhakar@gmail.com. (2)Department of Neurology, Christian Medical College and Hospital, Vellore, Tamil Nadu, India. (3)Departmentof Radiodiagnosis, Christian Medical College and Hospital, Vellore, Tamil Nadu, 632004, India. (4)Department of Pediatric Neuroimaging, Hospital for SickChildren, Toronto, Canada. Imaging plays an important role in the diagnosis, management, prognostication and follow up of pediatric demyelinating and inflammatory diseases of the brain and forms an integral part of the diagnostic criteria. Conventional and advanced MR imaging is the first and only reliable imaging modality. This article reviews the typical and atypical imaging features of common and some uncommon demyelinating and inflammatory diseases with emphasis on the criteria for categorization. Imaging protocols and the role of advanced imaging techniques are also covered appropriately.	PMID: 26634264	NAT
476.	<ul> <li>Suganthi L(1), Manivannan M, Kunwar BK, Joseph G, Danda D.</li> <li>Morphological analysis of peripheral arterial signals in Takayasu's arteritis.</li> <li>J Clin Monit Comput. 2015 Feb;29(1):87-95. doi: 10.1007/s10877-014-9572-8. Epub 2014 Mar 21.</li> <li>Author information: <ul> <li>(1)Department of Applied Mechanics, Indian Institute of Technology Madras, Chennai, 600036, Tamilnadu, India, <u>suganthi.lakshmanan@gmail.com</u>. M. Manivannan e-mail: mani@iitm.ac.in B. K. Kunwar G. Joseph Department of Cardiology, Christian Medical College, Vellore, India e-mail: kunwar_brajesh@yahoo.com G. Joseph e-mail: joseph59@gmail.com D. Danda Department of Clinical Immunology and Rheumatology, Christian Medical College, Vellore, India e-mail.com</li> </ul> </li> <li>Takayasu's arteritis disease (TA) remains a rarely studied chronic inflammatory disease. Our objective is to analyze peripheral pulse using photoplethysmography (PPG) as a new assessment method for diagnosing TA. So far no literature reports detailed morphological analysis of TA PPG signals. PPG signals of twenty</li> </ul>	PMID: 24652647 WOS:000348941200014	INT

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	normaland twenty TA patients at five different regions such as left and right thumbs, left and right toes and neck have been acquired simultaneously. Morphological parameters of peripheral signals such as peak-to- peak time, the crest time (CT), reflection index (RI), maximum systolic slope (MSS), maximum diastolic slope, pulse height, area under pulse and pulse transit time are obtained from PPG and electro cardiogram of normal and TA patients. Surprisingly RI is different in all the five locations of TA patients, whereas it is same for normal in all five locations. Mean MSS are significantly lesser than normal subjects. Mean CT of normal subjects is always lesser than normal subject. Morphological parameters based classification method has sensitivity of 80-100 and specificity of 86-100 in all limbs/all parameters. Bilateral dissimilarity in morphological parameters of multi site peripheral signals in the TA patients can be used to diagnose TA patients and find the pathological site. Less population is studied which reflects the rarity of the TA disease.		
477.	Sundar, R. and Sundar, G. Zinner syndrome: an uncommon cause of painful ejaculation BMJ Case Rep; 2015, 2015 Zinner syndrome refers to the triad of ipsilateral renal agenesis, seminal vesicle cysts and ejaculatory duct obstruction. Ipsilateral renal agenesis may be associated with seminal vesicle cysts in 70% of cases, but a remnant ureteral bud has been shown to coexist in only 27% of these cases. While some patients may remain asymptomatic and are discovered incidentally, others present with symptoms related to seminal vesicle cysts or ejaculatory duct obstruction: voiding or ejaculatory difficulty or pain. The diagnosis is made with imaging findings, and differentiation from other pelvic cysts requires a multimodality approach. In this report, we present typical imaging findings of a patient who presented with painful ejaculation where there was a congenital seminal vesicle cyst with ipsilateral renal agenesis associated with a remnant ureteral bud draining into the seminal vesicle cyst and also associated with a cyst of the prostatic utricle. We discuss the relevant embryological basis for this unusual combination of findings. Address: National University Health System, Singapore, Singapore. Department of Radiology, Division of Vascular and Interventional Radiology, Christian Medical College, Vellore, India.	PMID: 25750220	INT
478.	Sundararaj MS(1), Singh G, Prabhu K. Supplementary Motor Area (SMA) Syndrome: An Enigma to Anesthesiologists! J Neurosurg Anesthesiol. 2015 Oct 29. [Epub ahead of print] Author information: (1)Department of Anaesthesiology, Christian Medical College and Hospital, Vellore, Tamil Nadu, India.	PMID: 26524420	INT
479.	<ul> <li>Sureka JP(1), Varghese VD(2), Kandagaddala M(1), Prasanthi D(1).</li> <li>Patellar tendon enthesitis as initial manifestation of ankylosing spondylitis: an atypical presentation.</li> <li>BMJ Case Rep. 2015 Oct 29;2015. pii: bcr2015213048. doi: 10.1136/bcr-2015-213048.</li> <li>Author information: <ul> <li>(1)Department of Radiology, Christian Medical College and Hospital, Vellore, Tamil Nadu, India.</li> <li>(2)Department of Orthopaedics Unit 3, Christian Medical College and Hospital, Vellore, Tamil Nadu, India.</li> </ul> </li> </ul>	PMID: 26516254	INT
480.	Sushma Swaraj, Saumil Dholakia Unusual physical outcome of a sign of mental illness	WOS:000366494300431	NAT

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	Indian J Psychiatry. 2015 Jan; 57(Suppl 1): S113-S159.		
	Christian Medical College Vellore, India, E-mails: <u>gmail.com@amhsushsna</u> , <u>gmail.com@limuasaikalohd</u>		
	Keyword: Physical disability; Posturing; Schizophrenia; Unusual outcome Background: Posturing is one of the classical manifestations in patients with Schizophrenia. The patient maintains strange positions voluntarily for extended periods of time. However, this voluntary posturing may rarely lead to structural physical deficits as evidenced by the case presented below. Case report: A 21 year old male patient known to have Schizophrenia presented to our department of Psychiatry with symptoms of posturing at the elbow joint and difficulty in extending his elbows to full range. The duration of this symptom was about six months and according to the relatives his elbows were flexed even during sleep. There was a good temporal correlation between the onset and progression of posturing symptoms and development of physical deficit. On examination his elbow could not be extended completely and he also felt pain during attempted extension movement. We referred him to our Physical Medicine and Rehabilitation department for further evaluation. They could extend both his elbows up to 10 degree short of full extension with pain. There was no obvious bone deformity. X-ray of elbow joints was normal. Their final diagnosis was bilateral elbow flexion contracture secondary to posturing. He was placed on a programme of physical rehabilitation which included physical exercises and application of braces. He showed partial improvement in his condition after therapy. Discussion and Conclusion: There have been only few reports of muscle contractures developing in patients with prolonged posturing due to mental illness1. However, awareness about this potentially disabiling consequence of prolonged posturing is important to prevent or recognise early physical disability. Treatment of underlying mental illness and referral for physical therapy and rehabilitation are keys to management.		
481.	<ul> <li>Susmitha WK(1), Mathew G(2), Devasahayam SR(3), Perakath B(4), Velusamy SK(5).</li> <li>Factors influencing forces during laparoscopic pinching: Towards the design of virtual simulator.</li> <li>Int J Surg. 2015 Jun;18:211-5. doi: 10.1016/j.ijsu.2015.04.078. Epub 2015 Apr 30.</li> <li>Author information: <ul> <li>(1)Department of Bioengineering, Christian Medical College Vellore, Tamil Nadu, India; Department of Biotechnology, Indian Institute of Technology Madras, Tamil Nadu, India. (2)Medical Sciences Group, University of Pelita Harapan Medical Sciences, Tangerang, Indonesia. (3)Department of Bioengineering, Christian Medical College Vellore, Tamil Nadu, India. (5)Department of Biostatistics, Christian Medical College Vellore, Tamil Nadu, India.</li> </ul> </li> <li>BACKGROUND: The design of good virtual simulators for laparoscopic training requires realistic visual and tactile perception. This is a study to characterize the factors that contribute to forces during laparoscopic</li> </ul>	PMID: 25937156 WOS:000357389300040	INT
	pinching. METHODS: Surgeons were divided into four groups according to years of experience in laparoscopic surgery. They were asked to grasp six different types of porcine abdominal tissue in a randomly sequenced manner, using two different types of sensorized graspers, under two regimes of perceptual feedback (with and without visual feedback). The forces (grasper handle force and grasper tip force) and grasper handle angle were recorded and analyzed. RESULTS: The factors that determine forces during laparoscopic pinching can be ranked as follows: surgical experience ( $p < .001$ ), tissue type ( $p = .007$ ) and visual feedback ( $p = .033$ ), but not grasper type ( $p = .071$ ). Handle force depends significantly on surgical experience ( $p < .001$ ),		

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	tissue type ( $p = .001$ ) and visual feedback ( $p = .019$ ), but not on grasper type ( $p = .203$ ). Tip force depends significantly on surgical experience ( $p < .001$ ) and marginally on tissue type ( $p = .203$ ). To force depends = .082) and visual feedback ( $p = .053$ ) but not on the grasper type ( $p = .180$ ). CONCLUSION: Forces during laparoscopic pinching depend on surgical experience, tissue type and presence of visual feedback but not on grasper type. Our data can be an input in the design of virtual simulators with force feedback, for training laparoscopic pinching. Copyright © 2015 IJS Publishing Group Limited. Published by Elsevier Ltd. All rights reserved.		
482.		PMID: 26388534 WOS:000366290400035	INT
	were randomly allocated to one of fivegroups: trivalent OPV (tOPV); tOPV plus IPV; bOPV plus IPV; or bOPV plustwo doses of IPV (2IPV). The key eligibility criteria were: full-term birth ( $\geq$ 37 weeks of gestation); birthweight $\geq$ 2·5 kg; and Apgar score of 9 or more. OPV wasadministered at birth, 6 weeks, 10 weeks, and 14 weeks; IPV was administeredintramuscularly at 14 weeks. The primary study objective was to investigateimmunogenicity of the new vaccine schedule, assessed by seroconversion against poliovirus types 1, 2, and 3 between birth and 18 weeks in the per-protocol population (all participants with valid serology results on cord blood and at 18 weeks). Neutralisation assays tested cord blood and sera collected at 14 weeks, 18 weeks, 19 weeks, and 22 weeks by investigators masked to group allocation.This trial was registered with the India Clinical Trials Registry, numberCTRI/2013/06/003722. FINDINGS: Of 900 newborn babies enrolled between June 13 and Aug 29, 2013, 782(87%) completed the per-protocol requirements. Between birth and age 18 weeks,seroconversion against poliovirus type 1 in the tOPV group occurred in 162 of 163(99.4%, 95% CI 96.6-100), in 150 (98.0%, 94.4-99.6) of 153 in the tOPV plus IPVgroup, in 153 (98.7%, 95.4-99.8) of 155 in the bOPV group, in 155 (99.4%, 96.5-100) of 156 in the bOPV plus IPV group,		

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	and in 154 (99·4%, 96·5-100) of 155 in the bOPV plus 2IPV group. Seroconversion against poliovirus type 2 occurred in 157 (96·3%, 92·2-98·6) of 163 in the tOPV group, 153 (100%, 97·6-100·0) of 153 in the tOPV plus IPV group, 29 (18·7%, 12·9-25·7) of 155 in the bOPV group, 107 (68·6%, 60·7-75·8) of 156 in the bOPV plus IPV group, and in 121 (78·1%, 70·7-84·3) of 155 in the bOPV plus 2IPV group. Seroconversion against poliovirus type 3 was achieved in 147 (90·2%, 84·5-94·3) of 163 in the tOPV group, 152 (99·3%, 96·4-100) of 153 in the tOPV plus IPV group, 151 (97·4%, 93·5-99·3) of 155 in the bOPV group, 155 (99·4%, 96·5-100) of 156 in the bOPV plus IPV group, and 153 (98·7%, 95·4-99·8) of 155 in the bOPV plus 2IPV group. Superiority was achieved for vaccine regimens including IPV against poliovirus type 3 comparedwith those not including IPV (tOPV plus IPV vs tOPV alone, $p=0.0008$ ; and bOPV plus IPV vs bOPV alone, $p=0.0153$ ). 12 serious adverse events occurred (six in the tOPV group, one in the tOPV plus IPV group), none of which was attributed to the trial intervention. INTERPRETATION: The new vaccination schedule improves immunogenicity against polioviruses, especially against poliovirus type 3. FUNDING: WHO, through a grant from Rotary International (grant number 59735).		
483.	Suzana S(1), Ninan MM(1), Gowri M(2), Venkatesh K(3), Rupali P(4), Michael JS(1). Xpert MTB/Rif for the diagnosis of extrapulmonary tuberculosis- an experience from a tertiary care centre in South India.	PMID: 26671654	NAT
	Trop Med Int Health. 2015 Dec 15. doi: 10.1111/tmi.12655.		
	<ul> <li>(1)Department of Microbiology, Christian Medical College, Vellore, India.</li> <li>(2)Department of Biostatistics, Christian Medical College, Vellore, India.</li> <li>(3)Department of Spinal Disorders, Christian Medical College, Vellore, India.</li> <li>(4)Department of Infectious Diseases, Christian Medical College, Vellore, India.</li> </ul>		
	OBJECTIVE: The Xpert MTB/Rif, with a detection limit of 131 CFU/ml, plays a valuable role in the diagnosis of extrapulmonary tuberculosis, both susceptible and resistant. This study aims at evaluating the Xpert MTB/Rif for the same, at a tertiary care centre in South India, assessing it against both culture and a composite gold standard (CGS). METHODS: We tested consecutive samples from patients suspected of extrapulmonary tuberculosis with Xpert MTB/Rif, evaluated its sensitivity and specificity against solid and/or liquid culture, and carried out CGS. An individual analysis of different sample types (tissue biopsies, fluids, pus, lymph node biopsies and CSF) given an adequate sample size, against both culture, the sensitivity of Xpert MTB/Rif was 89% (95% CI 0.81-0.94) and its specificity was 74% (95% CI 0.70-0.78). When Xpert MTB/Rif was compared to the CGS, pooled sensitivity was 62% (95% CI 0.56-0.67) and specificity was 100% (95% CI 0.91-1.00). CONCLUSION: This assay performs better than the currently available conventional laboratory methods. The rapidity with which results are obtained is an added advantage, and its integration into a routine diagnostic protocol must be considered. This article is protected by copyright. All rights reserved.		
484.	Thangakunam B Are the days of closed pleural biopsy over? No.	PMID: 26664179	NAT
	Lung India. 2015 Nov-Dec;32(6):641-3. doi: 10.4103/0970-2113.168140.		
	Department of Pulmonary Medicine, Christian Medical College, Vellore, Tamil		

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	Nadu, India.		
	Closed pleural biopsy used to be a popular method of evaluation of pleural effusion. With the advent of thoracoscopy, this valuable method is being neglected. Studies have shown that closed pleural biopsy especially done with image guidance has high yield and low complication rate as compared to thoracoscopy. Given the ease of the procedure and the less cost involved, imaged guided closed pleural biopsy should be considered as the initial diagnostic step in undiagnosed pleural biopsy especially in developing countries with high prevalence of tuberculosis.		
485.	Thangakunam B(1), Christopher DJ(1), Mathews V(2), Srivastava A(2). Mesenchymal stromal stem cell therapy in advanced interstitial lung disease - Anaphylaxis and short-term follow-up.	PMID: 26628765	NAT
	Lung India. 2015 Sep-Oct;32(5):486-8. doi: 10.4103/0970-2113.164156.		
	(1)Department of Pulmonary Medicine, Christian Medical College, Vellore, Tamil Nadu, India. (2)Department of Haematology, Christian Medical College, Vellore, Tamil Nadu, India.		
	There are limited treatment options for advanced interstitial lung disease (ILD). We describe a patient of ILD treated with mesenchymal stromal stem cell infusion. The index patient had end-stage ILD due to a combination of insults including treatment with radiotherapy and a tyrosine kinase inhibitor Erlotinib. He was oxygen-dependent and this was hampering his quality of life. He tolerated the first infusion stem cells without any problem. During the second infusion he developed anaphylactic shock, which was appropriately managed. At 6-months follow-up he had no improvement in oxygenation, pulmonary function or CT scan parameters. In view of anaphylaxis, further infusions of MSC were withheld. A longer follow-up may reveal long-term benefits or side effects, if any. However the occurrence of anaphylaxis is of concern suggesting that further trials should be conducted with intensive monitoring.		
486.	Therakathu, J., Keshava, S. N., Thippeswamy, P. B. and Chandramohan, A. Overseas exams - Perception of audience in a conference symposium: A survey <u>Indian Journal of Radiology and Imaging</u> . 2015 Apr-Jun; 25(2): 206-7 Address: Department of Radiodiagnosis, Christian Medical College, Vellore, Tamil Nadu, India E-mail: jacobther@yahoo.co.in.	PMID: 25969648 4419434: 4419434	NAT
487.	Thomas K(1), Peter JV(2), Christina J(3), Jagadish AR(3), Rajan A(2), Lionel P(2), Jeyaseelan L(4), Yadav B(4), John G(2), Pichamuthu K(2), Chacko B(2), Pari P(2), Murugesan T(2), Rajendran K(2), John A(2), Sathyendra S(1), Iyyadurai R(1),Jasmine S(1), Karthik R(1), Mathuram A(1), Hansdak SG(1), Abhilash KP(1), KumarS(5), John KR(4,)(6), Sudarsanam TD(1). Cost-utility in medical intensive care patients. Rationalizing ongoing care and timing of discharge from intensive care.	26011090	INT
	Ann Am Thorac Soc. 2015 Jul;12(7):1058-65. doi: 10.1513/AnnalsATS.201411-527OC.		
	Author information: (1)1 Department of Medicine. (2)2 Medical ICU. (3)3 Clinical Epidemiology Unit, and. (4)4 Department of Biostatistics, Christian Medical College, Vellore. (5)5 SAMARTH, Chennai; and. (6)6 SRM Medical College, Potheri, Chennai, India. Comment in Ann Am Thorac Soc. 2015 Jul;12(7):976-7.		
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	RATIONALE: Intensive care unit (ICU) treatment costs pose special challenges in developing countries. OBJECTIVES: To determine the prognostic value of the "utility" score and evaluate the relationship of willingness to pay assessment to utility score during ICU admission. METHODS: We performed a prospective study spanning 12 months in a 24-bed medical ICU in India. Treatment cost was estimated by direct measurement. Global utility score was assessed daily by healthcare providers on a Likert scale (0-1 in increments of 0.1, with 0 indicating death/severe disability and 1 indicating cure/perfect health). The sensitivity, specificity, and likelihood ratios of utility in predicting ICU mortality was calculated. Receiver operating characteristic curves were generated to compare Day 2 utility with APACHE II. The caregiver's willingness to pay for treatment was assessed on alternate days using the bidding method by presenting a cost bid. Based on the response ("yes" or "no"), bids were increased or decreased in a prespecified manner until a final bid value was reached. Simultaneously, treating doctors were asked how much institutional funds they would be willing to spend for treatment. MEASUREMENTS AND MAIN RESULTS: Primary diagnosis in 499 patients included infection (26%) and poisoning (21%). The mean (SD) APACHE II score was 13.9 (5.8); 86% were ventilated. ICU stay was 7.8 (5.5) days. ICU mortality was 23.9% (95% confidence interval, 20.3-27.8). Survival without disability was 8.3% (2/24) for Day 2 utility score ≤0.3 and 95.8% (53/56) for Day 5 score >0.8 (P<0.001). The likelihood ratio to predict mortality increased as utility values decreased and was highest (5.85) for utility 0.2. Area under the receiver operating characteristic curves for utility and APACHE II were similar. Willingness to pay by the caregiver was 53% of treatment cost and was not influenced by utility. Scores help prognosticate, with Day 2 score ≤0.3 associated with poor outcome and ≥0.8 Day 5 score with survival. The caregiver's willingness		
488.	Thomas, B. P., Sreekanth, R. and Pallapati, S. C. Open proximal phalangeal shaft fractures of the hand treated by theta fixation Indian Journal of Orthopaedics. 2015 May-Jun; 49(3): 312-6 BACKGROUND: Many implants and techniques are used for the treatment of open phalangeal fractures with varying grades of stability. The ubiquitous and simple Kirschner (K) wiring does not provide adequate stability to allow early mobilization of fingers. Lister described a combination of coronal interosseous wire and oblique K-wire technique for phalangeal fracture fixation with a stable construct that allowed early mobilization. Due to the fancied resemblance of this construct to the Greek alphabet theta (theta), we have referred to this as the theta fixation. MATERIALS AND METHODS: Ten patients with open proximal phalangeal shaft (transverse) fractures were treated with theta fixation between January and June 2010. Outcome was analysed in terms of stability, early mobilization, fracture healing and function of hand. They were graded according to the Belsky score. RESULTS: 90% patients were graded excellent and 10% good, with none having fair or poor results. All fractures allowed the mobilization at a mean of 2.9 days and all healed at an average of 6.1 weeks. No loss of stability was seen on followup X-rays. All patients returned to their old profession. CONCLUSION: The theta fixation technique is a safe, simple and effective method for open transverse phalangeal fractures with results comparable to other techniques. This method gives superior fracture stability to allow early mobilization of joints and thus early return of function. It is also a cost effective way of management for the developing world. Address: Dr. Paul Brand Centre for Hand Surgery, Christian Medical College and Hospital, Vellore, Tamil	PMID: 26015631 PMCID:PMC4443413 WOS:000354385900008	NAT

	Nadu, India.		
489.	Thomas, E., Shetty, S., Kapoor, N. and Paul, T. V. Mayer-Rokitansky-Kuster-Hauser syndrome BMJ Case Rep; 2015, 2015 Address: Department of Obstetrics and Gynaecology, Christian Medical College, Vellore, Tamil Nadu, India. Department of Endocrinology, Christian Medical College, Vellore, Tamil Nadu, India.	PMID: 25979964	INT
490.	Thomas, N., Chakrapani, Y., Rebekah, G., Kareti, K. and Devasahayam, S. Phase changing material: an alternative method for cooling babies with hypoxic ischaemic encephalopathy Neonatology; 2015, 107 (4): 266-70 BACKGROUND: Therapeutic hypothermia for hypoxic ischaemic encephalopathy (HIE) has been proved effective. Standard equipment is expensive, while ice packs used in low resource settings are labour intensive and associated with wider temperature fluctuations. OBJECTIVES: To assess the feasibility of using phase changing material (PCM) as an alternative method for providing therapeutic hypothermia. METHODS: We retrospectively analysed 41 babies with HIE who had been cooled with PCM (OM 32 or HS 29) to a target rectal temperature of 33-34 degrees C. Rectal temperature was continuously monitored and recorded every hour. If the rectal temperature was >33.8 degrees C, cool gel packs were applied, and if the temperature was <33.2 degrees C, the baby was covered with sheets and the warmer output turned on till the temperature stabilized at 33.5 degrees C. The unit's standard protocol for cooling was followed for monitoring and treatment. The outcome measures were stability and fluctuation of the rectal temperature during the cooling phase was 33.45 +/- 0.26 degrees C. Throughout the cooling phase, the target temperature range was maintained in 96.2% of the time. There was no temperature reading <32 degrees C. With HS 29, ice packs were not used in any baby, and the warmer was used for a median of 7 h (interquartile range 1.5-14). CONCLUSIONS: PCM provides a low cost and effective method to maintain therapeutic hypothermia. However, careful monitoring is required during induction and the rewarming phase to avoid hypothermia. However, careful monitoring is required during induction and the rewarming phase to avoid hypothermia. Address: Department of Neonatology, Christian Medical College, Vellore, India.	PMID: 25720449 WOS:000355771600006	INT
491.	Thomas, R. J., Fletcher, G. J., Kirupakaran, H., Chacko, M. P., Thenmozhi, S., Eapen, C. E., Chandy, G. and Abraham, P. Prevalence of non-responsiveness to an indigenous recombinant hepatitis B vaccine: a study among South Indian health care workers in a tertiary hospital Indian J Med Microbiol; 2015, 33 Suppl 32-6 BACKGROUND AND AIM: Health care workers (HCW) are at higher risk of contracting HBV infection. Non- response to HBV vaccine is one of the major impediments to prevent healthcare associated HBV infection (HAHI). We estimated the prevalence of non-responsiveness to initial 3-dose regimen of an indigenous recombinant HBV vaccine (GeneVac-B) among South Indian HCWs and typed the HLA in non-responders. STUDY DESIGN AND METHOD: Of the 778 subjects screened over 1 year, 454 completed all three doses of the hepatitis B vaccination. Anti-HBs titers were estimated by microparticle enzyme immunoassay AxSYM AUSAB, (Abbott, Germany). HLA typing was done using SSP-PCR assay AllSet+ Gold SSP (Invitrogen, USA). RESULTS: The overall seroconversion rate (anti-HBs>10 mIU/mL) was 98.89% wherein 90.8% had titers>1000mIU/mL, 7.6% had titers 100-1000mIU/mL, 0.43% had titers<100 mIU/mL and 1.1% were non- responsive (<10 mIU/mL) to the initial 3-dose regimen. Antibody titers<1000 mIU/mL were significantly associated with the highest quartile of body mass index (BMI) (P<0.001). We found no significant difference in seroprotection rate between gender (P=0.088). There was no difference in seroprotection rates among various ethnic groups (P=0.62). Subjects who were non-responsive in our study had at least one HLA allele	PMID: 25657153 WOS:000349843900007	NAT

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	earlier known to be associated with non-responsiveness to the vaccine. CONCLUSION: Our findings suggest that non-response to HBV vaccine is not a major impediment to prevent HAHI. Robust seroprotection rates can be achieved using this indigenous HBV vaccine. However, gender and BMI might influence the level of anti-HBs titers. We recommend the use of this cost effective HBV vaccine as well as postvaccination anti-HBs testing to prevent HAHI among HCWs. Address: Department of Clinical Virology, Christian Medical College Hospital, Vellore, Tamil Nadu, India.		
492.	Thomas, R. J., Ramanujam, K., Velusamy, V., Puthupalayam Kaliappan, S., Kattula, D., Muliyil, J. and Kang, G. Comparison of fieldworker interview and a pictorial diary method for recording morbidity of infants in semi- urban slums Bmc Public Health. 2015;15. doi: 10.1186/s12889-015-1372-7 BACKGROUND: Cohort studies conducted in low-income countries generally use trained fieldworkers for collecting data on home visits. In industrialised countries, researchers use less resource intensive methods, such as self-administered structured questionnaires or symptom diaries. This study compared and assessed the reliability of the data on diarrhoea, fever and cough/cold in children as obtained by a pictorial diary maintained by the mother and collected separately by a fieldworker. METHODS: A sample of 205 children was randomly selected from an ongoing birth cohort study. Pictorial diaries were distributed weekly to mothers of study children who were asked to maintain a record of morbidity for four weeks. We compared the reliability and completeness of the data on diarrhoea, fever and cough/cold obtained by the two methods. RESULTS: Of 205 participants, 186 (91%) ever made a record in the diary and 62 (30%) mothers maintained the diary for all 28 days. The prevalence-adjusted bias-adjusted kappa statistics for diarrhoea, fever, cough/cold and for a healthy child were 92%, 79%, 35% and 35% respectively. CONCLUSION: Diary recording was incomplete in the majority of households. When recorded, the morbidity data by the pictorial diary method for acute illnesses were reliable. Strategies are needed to address behavioural factors affecting maternal recording such that field studies can obtain accurate morbidity measurements with limited resources. Address: Division of Gastrointestinal Sciences, Christian Medical College, Vellore, TN, 632004, India. 		

retrospective cohort study

Trans R Soc Trop Med Hyg. 2015 Jun;109(6):379-85. doi: 10.1093/trstmh/trv016. Epub 2015 Mar 15.

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	BACKGROUND: Adverse drug reactions are a major concern with zidovudine/stavudine treatment regimens. The less toxic tenofovir regimen is an alternative, but is seldom considered due to the higher costs. This study compared adverse drug reactions and other clinical outcomes resulting from the use of these two treatment regimens in India. METHODS: Baseline, clinical characteristics and follow-up outcomes were collected by chart reviews of HIV-positive adults and compared using univariate/multivariate analysis, with and without propensity score adjustments. RESULTS: Data were collected from 129 and 92 patients on zidovudine (with lamivudine and nevirapine) and tenofovir (with emtricitabine and efavirenz) regimens, respectively. Compared to patients receiving the zidovudine regimen, patients receiving the tenofovir regimen had fewer adverse drug reactions (47%, 61/129 vs 11%, 10/92; p<0.01), requiring fewer regimen changes (36%, 47/129 vs 3%, 3/92; p0.01). With the propensity score, the zidovudine regimen had 8 timesmore adverse drug reactions (p<0.01). Opportunistic infections were similar between regimens without propensity score, while the zidovudine regimen had 1.2 times (p=0.63) more opportunistic infections with propensity score. Patients on the tenofovir regimen dad new edght. Increase in CD4 levels and treatment adherence (>95%) was similar across regimens. CONCLUSIONS: Patients on a tenofovir regimen have better clinical outcomes and improved general health than patients on the zidovudine regimen. © The Author 2015. Published by Oxford University Press on behalf of Royal Society of Tropical Medicine and Hygiene. All rights reserved. For permissions, please e-mail: journals.permissions@oup.com		
494.	Tilak, M., Isaac, S. A., Fletcher, J., Vasanthan, L. T., Subbaiah, R. S., Babu, A., Bhide, R. and Tharion, G. 'Mirror Therapy and Transcutaneous Electrical Nerve Stimulation for Management of Phantom Limb Pain in Amputees - A Single Blinded Randomized Controlled Trial' Physiother Res Int; 2015, BACKGROUND AND PURPOSE: Phantom limb pain (PLP) can be disabling for nearly two thirds of amputees. Hence, there is a need to find an effective and inexpensive treatment that can be self administered. Among the non-pharmacological treatment for PLP, transcutaneous electrical nerve stimulation (TENS) applied to the contralateral extremity and mirror therapy are two promising options.	PMID: 25832306	INT

	However, there are no studies to compare the two treatments. The purpose of this study is to evaluate and compare mirror therapy and TENS in the management of PLP in subjects with amputation. METHODS: The study was an assessor blinded randomized controlled trial conducted at Physiotherapy Gymnasium of Physical Medicine and Rehabilitation Department, Christian Medical College, Vellore. Twenty-six subjects with PLP consented to participate. An initial assessment of pain using visual analogue scale (VAS) and universal pain score (UPS) was performed by a therapist blinded to the treatment given. Random allocation into Group I-mirror therapy and Group II-TENS was carried out. After 4 days of treatment, pain was re-assessed by the same therapist. The mean difference in Pre and Post values were compared among the groups. The change in pre-post score was analyzed using the paired t test. RESULTS: Participants of Group I had significant decrease in pain [VAS ( $p = 0.003$ ) and UPS ( $p = 0.002$ ]. However, no difference was observed between the two groups [VAS ( $p = 0.223$ and UPS ( $p = 0.956$ ]. DISCUSSION: Both Mirror Therapy and TENS were found to be effective in pain reduction on a short-term basis. However, no difference between the two groups was found. Substantiation with long-term follow-up is essential to find its long-term effectiveness. Copyright (c) 2015 John Wiley & Sons, Ltd.		
495.	Tilak, M., Paul, A., Samuel, C. S., David, J. A., Viswabandya, A. and Srivastava, A. Cryotherapy for acute haemarthrosis in haemophiliaattempts to understand the 'ice age' practice Haemophilia; 2015, 21 (1): e103-5 Address: Department of Physical Medicine and Rehabilitation, Christian Medical College, Vellore, India.	PMID: 25471230 WOS:000346985600022	INT
496.	Turel MK(1), D'Souza WP(1), Rajshekhar V(1).	PMID: 26235026	INT
	Hemilaminectomy approach for intradural extramedullary spinal tumors: an analysis of 164 patients.	WOS:000358800200009	
	Neurosurg Focus. 2015 Aug;39(2):E9. doi: 10.3171/2015.5.FOCUS15170. Author information: (1)Department of Neurological Sciences, Christian Medical College, Vellore, TamilNadu, India. OBJECT The authors report their experience with the use of a minimally invasive hemilaminectomy approach for the excision of intradural extramedullary (IDEM) tumors of the spinal cord. METHODS Included were 164 consecutive patients (167 tumors in total), treated between January 2004 and December 2014, in whom the hemilaminectomy approach for IDEM spinal cord tumors was planned. The clinicoradiological data of patients presenting to Christian Medical College were analyzed retrospectively using a computerized chart-review method. PreoperativeMRI localization was used in 51 cases. RESULTS The mean age (± SD) of the patients was 42.6 ± 16.6 years, and the mean duration of symptoms was 20.8 ± 27.8 months. The average tumor size was 2.4 ± 1.7 cm. Forty-four tumors were cervical, 5 were cervicothoracic, 72 were thoracic, 7 were thoracolumbar, and 39 were lumbar. Forty-two tumors were ventrally located, whereas 11 were ventrolateral; the rest were either dorsal or dorsolateral. The most common pathologies were schwannoma (110 cases) and meningioma (31 cases). Total excision was achieved for 93% of the tumors. The average duration of surgery was 1.6 ± 0.6 hours. CONCLUSIONS The hemilaminectomy approach to the removal of intradural tumors was quick and safe and resulted in minimal morbidity and no mortality. Preoperative MRI localization improved accuracy and reduced operating time by eliminating the need for intraoperative fluoroscopy.		
497.	Turel, M. K. and Chacko, A. G.	PMID: 25948006	NAT
<b>7</b> //.	Postoperative arachnoid cyst causing visual deterioration following transsphenoidal excision of a pituitary	WOS:000354387200036	
	restoperative argennoid eyst causing visual accentration ronowing transpirential excision of a pitulary	1100.00000040072000000	1

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	adenoma		
	<u>Neurology India</u> . 2015 Mar-Apr; 63(2): 274-6		
	Address: Department of Neurological Sciences, Christian Medical College, Vellore, Tamil Nadu, India.		
498.	Turel, M. K., Thakar, S. and Rajshekhar, V.	PMID: 25479119	INT
470.	Quality of life following surgery for large and giant vestibular schwannomas: a prospective study	WOS:000348408400010	
	J Neurosurg; 2015, 122 (2): 303-11	W03.000340400400010	
	OBJECT: Prospective studies of quality of life (QOL) are infrequently performed in patients undergoing		
	surgery for vestibular schwannoma (VS). The authors designed this to study to investigate health-related		
	QOL (HR-QOL) in patients with large and giant VSs before and after surgery. METHODS: Between January		
	2009 and December 2012, HR-QOL was measured prospectively before and after surgery, using the 36-Item		
	Short Form Health Survey (SF-36), in 100 patients who underwent surgery for unilateral large or giant VS		
	(tumor size>/=3 cm). The Glasgow Benefit Inventory (GBI) was also used to evaluate the effect of surgery.		
	RESULTS: A total of 100 patients were included in the study (65 men and 35 women). Their mean age (+/-		
	SD) was 44.2+/-11.5 years. The preoperative QOL was decreased in all SF-36 domains. A 1-year follow-up		
	evaluation was conducted for all patients (mean 13.5+/-5.3 months after surgery). The results showed an		
	improvement in HR-QOL compared with preoperative status in all cases, with 63%-85% of patients showing		
	a minimum clinically important difference (MCID) in various domains. A second follow-up evaluation was		
	performed in 51 cases (mean time after surgery, 29.0+/-8.3 months) and showed sustained improvement in		
	SF-36 scores. In some domains there was further improvement beyond the first follow-up. On the GBI, 87%		
	of patients reported improvement, 1% felt no change, and 12% of patients reported deterioration.		
	CONCLUSIONS: Patients harboring large or giant VSs score lower on all the QOL domains compared with the		
	normative population. More than 60% showed a clinically significant improvement in HR-QOL 1 year after		
	surgery, a result that was sustained at subsequent follow-up.		
	Address: Department of Neurological Sciences, Christian Medical College, Vellore, Tamil Nadu, India.		
499.	Tyagi, A. K., Ashish, G., Lepcha, A. and Balraj, A.	PMID: 25745615	INT
499.	Subjective visual vertical and horizontal abnormalities in a patient with lateral medullary syndrome-a case	4344978: 4344978	1111
		4344970: 4344970	
	report		
	Iran J Otorhinolaryngol; 2015, 27 (78): 75-80		
	INTRODUCTION: Evaluation of persistent vertigo in post infarct patients is very important as the		
	management depends on whether the cause is purely of central origin or due to associated vestibular		
	affliction. CASE REPORT: A patient with left sided dorsolateral medullary syndrome and persistent vestibular		
	symptoms was evaluated. Vestibular test battery showed abnormal smooth pursuit, bilateral hyperactive		
	caloric responses, and abnormal dynamic subjective visual vertical and dynamic subjective visual horizontal		
	tests. CONCLUSION: Dorsolateral medullary infarctions (Wallenberg's syndrome) typically cause a central		
	vestibular tonus imbalance in the roll plane with ipsilateral deviations of perceived vertical orientation. The		
	SVV and SVH tests may have a role in localizing the pathology in a patient with lateral medullary syndrome.		
	Address: AVC Department, Christian Medical College, Vellore, India.		
500.	Uttarilli A, Ranganath P, Jain SJ, Prasad CK, Sinha A, Verma IC, Phadke SR, Puri RD, Danda S, Muranjan MN,	PMCID: PMC4683826	NAT
	Jevalikar G, Nagarajaram HA, Dalal AB(1).	PMID: 26609033	
		WOS:000365693400010.	
	Novel mutations of the arylsulphatase B (ARSB) gene in Indian patients with mucopolysaccharidosis type VI.	100100000000000000000000000000000000000	
	Indian J Med Res. 2015 Oct;142(4):414-25. doi: 10.4103/0971-5916.169201.		
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Fingerprinting & Diagnostics, Hyderabad		
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501.	van den Berg HM(1), Feldman BM(2,)(3), Fischer K(1,)(4), Blanchette V(5,)(6), Poonnoose P(7), Srivastava A(8). Assessments of outcome in haemophilia - what is the added value of QoL tools?	PMID: 26032397 WOS:000356875600020.	INT

Haemophilia. 2015 Jul;21(4):430-5. doi: 10.1111/hae.12731. Epub 2015 Jun 2.         Author information:         (1)Julus Center for Health Sciences and Primary Care, University Medical Center Utrecht, Utrecht, The Netherlands. (2)Division of Rheumatology. The Hospital for Sick Children, Toronto, ON, Canada. (3)Departments of Paediatrics, Muiversity of Horonto, Toronto, ON, Canada. (4)Van Creveldkliniek, University Medical Center Utrecht, Utrecht, The Netherlands. (5)Division of Haematology/Oncology, The Hospital for Sick Children, Toronto, ON, Canada. (6)Department of Paediatrics, University of Toronto, Toronto, ON, Canada. (6)Department of Paediatrics, University of Toronto, Toronto, ON, Canada. (6)Department of Paediatrics, University of Toronto, Toronto, ON, Canada. (7)Department of Paediatrics, University of Toronto, Toronto, ON, Canada. (6)Department of Paediatrics, University of Toronto, Toronto, ON, Canada. (6)Department of Paediatrics, University of Toronto, Toronto, ON, Canada. (7)Department of Paediatrics, University of Toronto, Toronto, ON, Canada.         INTRODUCTION: Access to treatment and especially to long-term regular replacement treatment with clotting factor concentrates (prophylaxis) have caused dramatic contrasts in the clinical piotus or can be severely crippled and unable to work. Assessment of outcome in a standardized way has therefore become essential.         AIM: Discuss the relevance and utility of the different outcome assessment tools in patient groups with different access to treatment. METHODS: In the last (CER) Model. These tools are directed at assessing the clinical and radiological status of joints as well as overall functioning, such as participation and psychosocial aspects, evaluating overall health (ICF) Model. These tools are directed at assessing the clinical apractice or research, one needs to consider the specific context with regard		CIVIC SCIENTIFIC PUBLICATION FOR THE TEAK 2013 (JANUART TO DECE		
<ul> <li>(1)Julius Center for Health Sciences and Primary Care, University Medical Center Utrecht, Utrecht, The Netherlands. (2)Division of Rheumatology, The Hospital for Sick Children, Toronto, ON, Canada.</li> <li>(3)Departments of Paediatrics, Medicine, and the Institute of Health Policy, Management and Evaluation, University of Toronto, Toronto, ON, Canada. (4)Van Creveldkliniek, University Medical Center Utrecht, Utrecht, The Netherlands. (5)Division of Haematology/Onclogy, The Hospital for Sick Children, Toronto, ON, Canada. (6)Department of Paediatrics, University of Toronto, Toronto, ON, Canada. (7)Department of Orthopaedics, Christian Medical College, Vellore, India.</li> <li>INTRKODUCTION: Access to treatment and especially to long-term regular replacement treatment with dotting factor concentrates (prophylaxis) have caused dramatic contrasts in the clinical picture between haemophilia populations. An individual patient with severe haemophilia age 20 years can have normal joints or can be severely crippled and unable to work. Assessment of outcome in a standardized way has therefore become essential. AIM: Discuss the relevance and utility of the different outcome assessment tools in patient groups with different access to treatment. METHODS: In the last decade new outcome assessing the clinical and radiological status of joints as well as overall functioning, such as participation and psychoscial aspects, evaluating overall health. (PIKQOL). For deciding which tools to use in clinical practice or resessment of outcome tools is described.</li> <li>Soze. Avarphaene CM, Janardhanan J, Mahajan SK, Tariang D, Trowbridge P, Prakash JA, David T, Sathendra S, Abraham OC. Molecular epidemiology and genetic diversity of Orientia tsutsugamushi from patients with scrub typhus in 3 regions of India.</li> <li>Sorub typhus, an acute febrile illness that is widespread in the Asia-Pacific region, is caused by the bacterium</li> </ul>		Haemophilia. 2015 Jul;21(4):430-5. doi: 10.1111/hae.12731. Epub 2015 Jun 2.		
factor concentrates (prophylaxis) have caused dramatic contrasts in the clinical picture between haemophilia populations. An individual patient with severe haemophilia age 20 years can have normal joints or can be severely crippled and unable to work. Assessment of outcome in a standardized way has therefore become essential.Alm: Discuss the relevance and utility of the different outcome assessment tools in patient groups with different access to treatment. METHODS: In the last decade new outcome assessment tools specific for haemophilia have been developed that measure all aspects of health according to the International Classification of Functioning, Disability and Health (ICF) model. These tools are directed at assessing the clinical and radiological status of joints as well as overall functioning, such as participation and psychosocial aspects, evaluating overall health-related quality of life (HRQOL). For deciding which tools to use in clinical practice or research, one needs to consider the specific context with regard to disease burden, healthcare environment and socioeconomic background of the patients being evaluated. CONCLUSION: Prospective systematic assessment of outcome in haemophilia and related bleeding disorders is important. Based upon recent literature a critical appraisal of outcome tools is described.PMCID: PMC4285260 PMID: 25530231 WOS:000347503700009.INT502.Varghese GM, Janardhanan J, Mahajan SK, Tariang D, Trowbridge P, Prakash JA, David T, Sathendra S, Abraham OC. Molecular epidemiology and genetic diversity of Orientia tsutsugamushi from patients with scrub typhus in 3 regions of India. Emerg Infect Dis. 2015 Jan;21(1):64-9. doi: 10.3201/eid2101.140580. Scrub typhus, an acute febrile illness that is widespread in the Asia-Pacific region, is caused by the bacteriumPMCID: PMC4285260 PMID: 25530231 WOS:000347503700009.<		<ul> <li>(1)Julius Center for Health Sciences and Primary Care, University Medical Center Utrecht, Utrecht, The Netherlands.</li> <li>(2)Division of Rheumatology, The Hospital for Sick Children, Toronto, ON, Canada.</li> <li>(3)Departments of Paediatrics, Medicine, and the Institute of Health Policy, Management and Evaluation, University of Toronto, Toronto, ON, Canada.</li> <li>(4)Van Creveldkliniek, University Medical Center Utrecht, Utrecht, The Netherlands.</li> <li>(5)Division of Haematology/Oncology, The Hospital for Sick Children, Toronto, ON, Canada.</li> <li>(6)Department of Paediatrics, University of Toronto, Toronto, ON, Canada.</li> <li>(7)Department of Orthopaedics, Christian Medical College, Vellore, India.</li> <li>(8)Department of Haematology, Christian Medical</li> </ul>		
Abraham OC.PMID: 25530231Molecular epidemiology and genetic diversity of Orientia tsutsugamushi from patients with scrub typhus in 3 regions of India. Emerg Infect Dis. 2015 Jan;21(1):64-9. doi: 10.3201/eid2101.140580.PMID: 25530231 WOS:000347503700009.Scrub typhus, an acute febrile illness that is widespread in the Asia-Pacific region, is caused by the bacteriumPMID: 25530231 WOS:000347503700009.		factor concentrates (prophylaxis) have caused dramatic contrasts in the clinical picture between haemophilia populations. An individual patient with severe haemophilia age 20 years can have normal joints or can be severely crippled and unable to work. Assessment of outcome in a standardized way has therefore become essential. AIM: Discuss the relevance and utility of the different outcome assessment tools in patient groups with different access to treatment. METHODS: In the last decade new outcome assessment tools specific for haemophilia have been developed that measure all aspects of health according to the International Classification of Functioning, Disability and Health (ICF) model. These tools are directed at assessing the clinical and radiological status of joints as well as overall functioning, such as participation and psychosocial aspects, evaluating overall health-related quality of life (HRQOL). For deciding which tools to use in clinical practice or research, one needs to consider the specific context with regard to disease burden, healthcare environment and socioeconomic background of the patients being evaluated. CONCLUSION: Prospective systematic assessment of outcome in haemophilia and related bleeding disorders is important. Based upon		
identify the circulating genotypes of O. tsutsugamushi in 3 scrub typhus-endemic geographic regions of India: South India, Northern India, and Northeast India. Eschar samples collected during September 2010- August 2012 from patients with scrub typhus were subjected to 56-kDa type-specific PCR and sequencing to identify their genotypes. Kato-like strains predominated (61.5%), especially in the South and Northeast, followed by Karp-like strains (27.7%) and Gilliam and Ikeda strains (2.3% each). Neimeng-65 genotype strains were also observed in the Northeast. Clarifying the genotypic diversity of O. tsutsugamushi in India enhances knowledge of the regional diversity among circulating strains and provides potential resources for future region-specific diagnostic studies and vaccine development.	502.	<ul> <li>Abraham OC.</li> <li>Molecular epidemiology and genetic diversity of Orientia tsutsugamushi from patients with scrub typhus in 3 regions of India.</li> <li>Emerg Infect Dis. 2015 Jan;21(1):64-9. doi: 10.3201/eid2101.140580.</li> <li>Scrub typhus, an acute febrile illness that is widespread in the Asia-Pacific region, is caused by the bacterium Orientia tsutsugamushi, which displays high levels of antigenic variation. We conducted an investigation to identify the circulating genotypes of O. tsutsugamushi in 3 scrub typhus-endemic geographic regions of India: South India, Northern India, and Northeast India. Eschar samples collected during September 2010-August 2012 from patients with scrub typhus were subjected to 56-kDa type-specific PCR and sequencing to identify their genotypes. Kato-like strains predominated (61.5%), especially in the South and Northeast, followed by Karp-like strains (27.7%) and Gilliam and Ikeda strains (2.3% each). Neimeng-65 genotype strains were also observed in the Northeast. Clarifying the genotypic diversity of O. tsutsugamushi in India enhances knowledge of the regional diversity among circulating strains and provides potential resources for</li> </ul>	PMID: 25530231	INT
503.       Varghese M, Thompson V, George O, George P, Joseph G.       WOS:000361205101068       INT         Percutaneous device closure of ruptured sinus of valsalva aneurysm: immediate and mid-term follow-up       Valsalva aneurysm: immediate and mid-term follow-up	503.	Varghese M, Thompson V, George O, George P, Joseph G.	WOS:000361205101068	INT

	results. European Heart Journal. 2015;36:21 2010) 31 (23): 2881- 2887 DOI: <u>http://dx.doi.org/10.1093/eurheartj/ehq323</u>		
504.	Varghese MJ(1), George OK(2). Smoked out!	26261293	INT
	Eur Heart J. 2015 Aug 10. pii: ehv362. [Epub ahead of print] Author information: (1)Department of Cardiology, Christian Medical College, Vellore, India drmithunjv@gmail.com. (2)Department of Cardiology, Christian Medical College, Vellore, India.		
505.	Varghese, J. and Jacob, M. Do medical students require education on issues related to plagiarism? Indian J Med Ethics; 2015, 12 (2): 82-7 In the course of our professional experience, we have seen that many medical students plagiarise. We hypothesised that they do so out of ignorance and that they require formal education on the subject. With this objective in mind, we conducted a teaching session on issues related to plagiarism. As a part of this, we administered a quiz to assess their baseline knowledge on plagiarism and a questionnaire to determine their attitudes towards it. We followed this up with an interactive teaching session, in which we discussed various aspects of plagiarism. We subjected the data obtained from the quiz and questionnaire to bivariate and multivariate analysis. A total of 423 medical students participated in the study. Their average score for the quiz was 4.96+/-1.67 (out of 10). Age, gender and years in medical school were not significantly associated with knowledge regarding plagiarism. The knowledge scores were negatively correlated with permissive attitudes towards plagiarism and positively correlated with attitudes critical of the practice. Men had significantly higher scores on permissive attitudes compared to women . In conclusion, we found that the medical students' knowledge regarding plagiarism was limited. Those with low knowledge scores tended to have permissive attitudes towards plagiarism and were less critical of the practice. We recommend the inclusion of formal instruction on this subject in the medical curriculum, so that this form of academic misconduct can be tackled. Address: Department of Biochemistry, Christian Medical College, Vellore 632 002, Tamil Nadu India.	PMID: 25671582	NAT
506.	Varghese, L. and George, J. Retrograde left main recanalization in a fifteen year old girl with takayasu arteritis Journal of the American College of Cardiology; 2015, 65 (17): S184-S185 [CLINICAL INFORMATION] Patient initials or identifier number. KS Relevant clinical history and physical exam. 15 year old girl from North India presented to us with exertional chest pain (angina), dyspnea and right upper limb claudication of 1 yr duration. No other significant past or family or birth history On examination, she had asymmetric upper limb pulses BP was 200/100mm (left upper limb); 100/66mm (right upper limb); 145/88mm (left lower limb) and 150/95mm (right lower limb) Systemic examination- otherwise normal Based on these features, diagnosis of Takayasu arteritis was made Relevant test results prior to catheterization. ESR: 34mm (1 hr) CRP: 45mg/l Biochemistry and hemogram- normal Relevant catheterization findings. Coronary & peripheral angiogram was done: 1)Left main ostial occlusion; LAD & LCx fills by right to left collaterals 2)Right subclavian proximal occlusion 3)Bilateral renal artery stenosis [INTERVENTIONAL MANAGEMENT] Procedural step. Transcollateral retrograde recanalisation of the left main	WOS:000359744100249	INT

	Chie Selentine i Obelection i on the TEAR 2013 (SANOARI TO Deel		
	artery done: Equipment used: 7F judkins right and left guiding catheters; Corsair 2.1F 150cm microcather; Guidewires used: Fielder XT (collateral crossing), Miracle 6 (retrograde CTO crossing), RG 3 -330cm wire (to form the arterio-arterial wire loop) Once crossed POBA was done with 3null15mm complaint balloon at 10atmThen stented with Jomed graftmaster (covered stent) 3.5null16mm at 16atm. Then post dilated with 4null12mm non complaint balloon at 20atm. Finally good result with TIMI III antegrade flow. Case Summary. Patient was started on immune suppression (mycophenolate and steroids) At 6 monthly follow up, she was free of angina Plan of further peripheral intervention soon (right subclavian and bilateral renal arteries) Coronary involvement in Takayasu arteritis varies from 10-18%, but in this age group and presenting with angina is very rare, and a complex intervention for the same is even rarer. Probably this is the first such case in literature.(figure present). Covered stent was used since, in our center, the restenosis rates were low when using covered stents in aorto-ostial lesions. Address: L. Varghese, Christian Medical College Vellore, India		
507.	Varghese, L., Chacko, R., Varghese, G. M. and Job, A. Septic arthritis of the temporomandibular joint caused by Aspergillus flavus infection as a complication of otitis externa Ear Nose Throat J; 2015, 94 (3): E24-6 Septic arthritis of the temporomandibular joint (TMJ) is a very rare complication of otitis externa that can lead to ankylosis and destruction of the joint. We report the case of a 74-year-old man who developed aspergillosis of the TMJ following otitis externa. To the best of our knowledge, this is the first reported case of TMJ septic arthritis secondary to otitis externa caused by Aspergillus flavus. The patient was successfully managed with condylectomy, debridement, and drug treatment with voriconazole. Address: Department of Otolaryngology, Unit 3, Christian Medical College, Vellore, Tamil Nadu, India, PIN 632004. <u>laleevarghese@yahoo.co.in</u> .	PMID: 25738723	INT
508.	Varughese S, Valson A, Jacob U, Alexander S, Jacob S, Mohapatra A, et al. A NOVEL TECHNIQUE OF BEDSIDE PERITONEAL DIALYSIS CATHETER REPOSITIONING. Nephrology Dialysis Transplantation. 2015;30. doi: 10.1093/ndt/gfv196.1WOS:000361215102341. Nephrol. Dial. Transplant. (2015) 30 (suppl 3): iii537	WOS:000361215102341	INT
509.	Velavan J, Anbarasi S, Bhandary S, Vyas R. Demographic profiling of students: an advocacy tool for family medicine. Medical Education. 2015;49(5):539-40. doi: 10.1111/medu.12710.	PMID: 25924160 WOS:000353977000044	INT
510.	<ul> <li>Venkatesan P(1), Tiwari A(2), Dasgupta R(1), Carey M(2), Kehlenbrink S(2), Wickramanayake A(2), Jambugulam M(1), Jeyaseelan L(3), Ramanathan K(3), HawkinsM(2), Thomas N(4). Surrogate measures of insulin sensitivity when compared to euglycemic hyperinsulinemic clamp studies in Asian Indian men without diabetes.</li> <li>J Diabetes Complications. 2015 Dec 2. pii: S1056-8727(15)00481-X. doi: 10.1016/j.jdiacomp.2015.11.024. [Epub ahead of print]</li> <li>(1)Department of Endocrinology, Diabetes and Metabolism, Christian Medical College, Vellore, India. (2)Division of Endocrinology, Department of Medicine, Albert Einstein College of Medicine, Bronx, NY, USA. (3)Department of Biostatistics, Christian Medical College, Vellore, India. (4)Department of Endocrinology, Diabetes and Metabolism, Christian Medical College, Vellore, India. Electronic address: nihal thomas@cmcvellore.ac.in.</li> <li>AIM: Fasting surrogate measures of insulin sensitivity are increasingly used in</li> </ul>	PMID: 26718937 [PubMed - as supplied by publisher]	INT
	research and clinical practice. To assess the reliability of these measures, we aimed to evaluate multiple		

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	fasting surrogate measures simultaneously in non-diabetic subjects in comparison with the euglycemic hyperinsulinemic clampstudy. METHODS: Sixteen normoglycemic male South Indian subjects were studied. After an overnight fast, blood samples were collected for glucose, insulin and lipid profile measurements, and stepped euglycemic hyperinsulinemic clamp studies were performed on all subjects. Steady state glucose infusion rates (M value) during low and high insulin phases of the clamp were calculated. Correlation of M value with surrogate markers of insulin sensitivity was performed. Predictive accuracy of surrogate indices was measured in terms of Root Mean Squared Error (RMSE) and leave-one-out cross-validation-type RMSE of prediction using a calibration model. RESULTS: M values showed a strong and significant correlation ( $p<0.01$ ) with thefollowing surrogate markers: Fasting insulin ( $r=-0.714$ ), Fasting glucose to insulin ratio (FGIR, $r=0.747$ ) and Raynaud index ( $r=0.714$ ). FGIR had a significantly lower RMSE when compared with HOMA-IR and QUICKI. CONCLUSIONS: Among the surrogate measures, FGIR had the strongest correlationwith M values. FGIR was also the most accurate surrogate measure, as assessed by the calibration model.		
511.	Venkatramani, V. Urovision 2020: The future of urology <u>Indian Journal of Urology</u> . 2015 Apr-Jun; 31(2): 150-5 Urology, as a specialty, has always been at the forefront of innovation and research. Newer technologies have been rapidly embraced and, in many cases, improved upon in order to achieve better patient outcomes. This review addresses the possible future directions that technological advances in urology may take. The role of further miniaturization of urolithiasis treatment, robotic surgery and other minimally invasive techniques is addressed. The potential for enhanced imaging and diagnostic techniques like magnetic resonance imaging and ultrasonography modifications, as well as the potential applications of nanotechnology and tissue engineering, are reviewed. This article is based on the Dr. Sitharaman Best Essay award of the Urological Society of India for 2013. Address: Department of Urology, Christian Medical College, Vellore, Tamil Nadu, India.	PMID: 25878422 PMCID:PMC 4397557	NAT
512.	Venkatramani, V. and Mukha, R. P. Visualization of male reproductive tract during urethrography: sequel of intense backpressure ANZ J Surg; 2015, 85 (5): 393 Address: Department of Urology, Christian Medical College, Vellore, India.	PMID: 24252111 WOS:000353340500028	INT
513.	Venkatramani, V., Banerji, J. S. and Manojkumar, R. Bilateral ovarian metastases from ureteric urothelial cancer: Initial case report and distinguishing role of immunohistochemistry Can Urol Assoc J; 2015, 9 (1-2): E52-4 Urothelial cancers of the upper tract are aggressive malignancies with a propensity for distant metastases. Transitional cell carcinoma can also develop de novo in the ovaries and differentiation between these lesions requires immunohistochemistry. We report a case of right lower ureteric urothelial carcinoma with metastases to both ovaries. To our knowledge, this is the first reported case of bilateral ovarian metastases from an upper tract primary, diagnosed with immunohistochemistry. Address: Department of Urology, Christian Medical College, Vellore, India; Department of Pathology, Christian Medical College, Vellore.	PMID: 25624971 PMCID:PMC4301973 WOS:000350406700013	INT
514.	Venkatramani, V., Panda, A. and Kekre, N. S. Is thrombocytosis a useful prognostic marker in renal cell carcinoma? Results of a single-center retrospective analysis Indian J Urol; 2015, 31 (1): 42-6	PMID: 25624575 4300571: 4300571	NAT

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	INTRODUCTION: Our aim was to determine the correlation of platelet count with stage and grade of renal cell carcinoma (RCC) and to determine whether progression of disease was more likely in those with thrombocytosis. MATERIALS AND METHODS: A retrospective review of patients with RCC from January 2004 to December 2011 was undertaken. Patients with no preoperative platelet count and those with multiple tumors were excluded. Disease progression was defined as appearance of local recurrence or distant metastasis on follow-up. Thrombocytosis was defined as a platelet count of >400,000/cumm. Standard tests of significance and multivariate analysis using logistic regression were performed. RESULTS: A total of 322 cases were identified. The median follow-up was 7 months (range, 2-84 months). The platelet count correlated significantly with higher Fuhrmann grade, as well as increasing TNM stage at diagnosis. Patients with a platelet count of >400,000/cumm (n = 35) had a significantly higher mean tumor size and worse grade at diagnosis than those with a normal platelet count (n = 287). Patients with thrombocytosis also had a significantly worse stage at presentation. Progression of disease was seen more often in patients with thrombocytosis (9 vs 18 months, P = 0.018). However, on multivariate analysis TNM stage was the only significant predictor of time to progression. CONCLUSION: Rising platelet count correlated significantly with advancing stage and grade of disease. Patients with thrombocytosis were significantly more likely to have advanced tumors at presentation, poorer histological features, and rapid disease progression. Address: Department of Urology, Christian Medical College, Vellore, Tamil Nadu, India.		
515.	Vijayaselvi R(1), Beck MM(2), Abraham A(1), Kurian S(3), Regi A(4), Rebekah G(5). Risk Factors for Stress During Antenatal Period Among Pregnant Women in Tertiary Care Hospital of Southern India. J Clin Diagn Res. 2015 Oct;9(10):QC01-5. doi: 10.7860/JCDR/2015/13973.6580. Epub 2015 Oct 1.	PMID: 26557568	NAT
	(1)Assistant Professor, Department of Obstetrics and Gynaecology, Christian Medical College, Vellore, Tamil Nadu, India. (2)Associate Professor, Department of Obstetrics and Gynaecology, Christian Medical College, Vellore, Tamil Nadu, India. (3)Professor, Department of Psychiatry, Christian Medical College Hospital, Vellore, Tamilnadu, India. (4)Professor, Department of Obstetrics and Gynaecology, Christian Medical College, Vellore, Tamil Nadu, India. (5)Assistant Professor, Department of Biostatistics, Christian Medical College Hospital, Vellore, Tamilnadu, India.		
	BACKGROUND: The well-being of an infant may be affected when the mother is subjected to psychosocial stress during her pregnancy. Mothers exposed to stressful conditions were more prone for preterm birth than those without any stress. In this study perceived stress has been used as an indicator of levels of stress. There are very few studies published from developing countries on the levels of perceived stress and its causes in pregnant women. MATERIALS AND METHODS: This study employed a cross-sectional assessment of pregnant women attending the outpatient services of a tertiary care hospital for regular antenatal check-up. Women not known to have any risk factors at 28 weeks to 34 weeks of pregnancy who agreed to participate in the study were interviewed to assess the perceived stress score. RESULTS: Among the total patients 57.7% were primigravida and the mean score on perceived stress scale was 13.5±5.02. The majority of the group (102; 65.4%) scored higher than the mean value of total score on the perceived stress scale. Unplanned pregnancy and husband's employment status were associated with high levels of perceived stress in multivariate analysis in this set of women. CONCLUSION: Individual as well as pregnancy related factors can contribute to perceived stress in pregnant women. With		

	assessment andmanagement of stress early in the pregnancy is crucial.	,	
516.	Vijaykumar S(1), Balaji V(1), Biswas I(2). Complete Genome Sequence of Acinetobacter baumannii Strain B8342, a Motility-Positive Clinical Isolate.	PMC4543508, 26294630	INT
	Genome Announc. 2015 Aug 20;3(4). pii: e00925-15. doi: 10.1128/genomeA.00925-15.		
	Author information: (1)Department of Microbiology, Christian Medical College, Vellore, Tamil Nadu,India. (2)Department of Microbiology, Molecular Genetics and Immunology,University of Kansas Medical Center, Kansas City, Kansas, USA ibiswas@kumc.edu.		
	Acinetobacter baumannii is an emerging Gram-negative pathogen responsible forhealth care-associated infections. In this study, we determined the genome of amotility-positive clinical strain, B8342, isolated from a hospital in southern India. The B8342 genome, which is 3.94 Mbp, was generated by de novo assembly of PacBio long-read sequencing data.		
517.	Vijaykumar S(1), Balaji V(1), Biswas I(2). Complete Genome Sequence of Acinetobacter baumannii Strain B8300, Which Displays High Twitching Motility.	PMC4543518, 26294640	INT
	Genome Announc. 2015 Aug 20;3(4). pii: e00956-15. doi: 10.1128/genomeA.00956-15.		
	Author information: (1)Department of Clinical Microbiology, Christian Medical College, Vellore, TamilNadu, India. (2)Department of Microbiology, Molecular Genetics and Immunology,University of Kansas Medical Center, Kansas City, Kansas, USA ibiswas@kumc.edu.		
	Acinetobacter baumannii has emerged as an important nosocomial pathogen causing health care-associated infections. In this study, we determined the genome of a twitching-positive clinical strain, B8300, isolated from a hospital in southern India. De novo assembly of PacBio long-read sequencing data generated the B8300 genome that consists of a chromosome of 3.82 Mbp and a plasmid of 25.15 kbp.		
518.	Vikram Mathews IS 7 Proteasome activity is dispensable for the degradation of PML-RARA: efficacy of bortezomib along with arsenic trioxide in the treatment of ATO sensitive and resistant acute promyelocytic leukemia <u>J Carcinog. 2015; 14(Suppl 1): S9–S15.</u> Published online 2015 Feb 10. <u>http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4422194/</u> CMC Vellore, India	PMCID: PMC4422194	NAT
	Acute promyelocytic leukemia (APL) is characterized by a reciprocal translocation, t(15;17) that leads to rearrangement of PML and RARA genes such that chimeric onco-protein PML-RARA is generated which is leukemogenic. Arsenic trioxide (ATO) has proven efficacy in the management of APL even as a single agent. Degradation of PML-RARA onco-protein upon treatment with arsenic trioxide (ATO) is predominantly mediated by the proteasome complex. Reports suggest that in relapsed APL patients who were treated		

	upfront with ATO, mutations in the B2 domain of PML in PML-RARA gene are involved in resistance to ATO. These mutations predict a poor clinical outcome in spite of subsequent combination of ATO with		
	chemotherapy (NEJM 2014). We had previously reported that Bortezomib (Bo), a proteasome inhibitor, was able to synergize with ATO by inducing apoptosis through increased levels of ROS and up regulation of the		
	UPR pathway. The degradation of PML-RARA when Bo combined with ATO correlated with the level of up		
	regulation of the autophagy pathway (Blood. 2012;120,3552). We further evaluated the mechanism of		
	degradation of PML-RARA when ATO was combined with Bo and the effect of this combination on resistant		
	cell lines, a mouse model and in relapsed patients. We generated in-house ATO resistant NB4 cell lines (NB4EV-ASR1, ASR2 and ASR3). In NB4EV-ASR1 we confirmed the presence of A216V mutation in the PML		
	B2 domain (previously reported to be involved in ATO resistance) while the other 2 clones did not have this		
	or any other mutation in PML-RARA. We noted an increase in the baseline proteasomal activity in all the		
	resistant cell lines when compared to naïve NB4 cells (n=3; data not shown). The combination of ATO and Bo		
	induced a significant apoptosis in all the resistant cells similar to naïve NB4 cells (Figure 1A: n=4;		
	Combination Index = $0.02$ ). The mechanism of inducing apoptosis in the resistant cell lines was similar to		
	naïve NB4 cells, as previously reported by us, and involved an increased level of ROS, decreased		
	mitochondrial membrane potential, induction of UPR and activation of caspase-3 ( <u>Figure 1B</u> ). We next evaluated PML-RARA degradation in NB4 naive cells treated with a combination of ATO+Bo. At 24 hours,		
	there was an evidence of induction in autophagy as shown by LC3II formation using western blot technique		
	which increased at 48 hours; this time point coincides with time at which maximum PML-RARA degradation		
	occurred (Figure1C). Similar results were seen in the resistant cell lines (with and without mutation A216V).		
	Blocking autophagy by 3-methyl adenine showed a partial inhibition in the degradation of PML-RARA. We		
	have also observed that there is an accumulation of p62 (ubiquitin binding protein) at 24 hours and this was		
	degraded by 48 hours suggests that accumulated ubiquitinated products were cleared by autophagy via p62 ( <u>Fiqure1D</u> ). At the transcript level we observed an increase expression of p62 associated proteins such as		
	Alfy and NBR1 in the ATO+Bo treated cells (data not shown). In a co-immunoprecipitation experiment, p62		
	and LC3II proteins precipitated along with PML-RARA (figure 1E), this was further validated by		
	immunofluorescence microscopy (data not shown). Knock down of p62 transcript by siRNA showed an		
	accumulation of PML-RARA in the treated cells. In an APL transplanted mice model, combination of ATO and		
	Bo prolonged the life span of the mice as illustrated in Figure1F. In this group there was a significant		
	decrease in the leukemia burden evidenced by decreased leukemic cells in bone marrow, peripheral blood		
	and spleen by flow cytometry, RQ-PCR and decreased spleen size on day +20. A reduction in the LIC was demonstrated by secondary transplants. We also observed that transplantation of bone marrow cells from the		
	long term surviving mice post ATO+Bo therapy did not induce leukemia ( <u>Figure1G</u> ) and no transcripts of		
	PML-RARA were detected in the recipients. A phase II clinical study combining Bo with ATO and		
	chemotherapy has been initiated for patients with relapsed APL (NCT01950611). In this ongoing study 11		
	patients have been enrolled. The median age was 32 years. 7 were males. All patients achieved		
	hematological remission and the median time to complete molecular remission was 42 days. The addition of		
	Bo was well tolerated. None of the cases had evidence of significant neuropathy, worsening of coagulopathy, IC bleed or a differentiation syndrome. Long term follow up is awaited to comment on the efficacy of this		
	combination. In conclusion, the mechanism of ATO+Bo synergy is multi-factorial and appears to be		
	predominantly due to increase in ROS activity and upregulation of UPR pathway leading to apoptosis. In spite		
	of proteasomal inhibition by addition of Bo with ATO, PML-RARA continues to be degraded and this is		
	mediated by up-regulation of autophagy pathway. ATO+Bo synergy was further confirmed in a pre-clinical		
	model. This combination is also effective in ATO resistant cell lines with high levels of synergism.		
519.	Vimala, L. R., Sathya, R. K., Lionel, A. P., Kishore, J. S. and Navamani, K.	PMID: 26155530 PMCID: PMC4484122	NAT
	Unilateral Obstructive Emphysema in Infancy due to Mediastinal Bronchogenic Cyst-Diagnostic Challenge and		l

	Management J Clin Diagn Res; 2015, 9 (5): TD03-5 Bronchogenic cysts are the most common cystic mediastinal lesion in children. Bronchogenic cyst causing unilateral obstructive emphysema is a rare presentation. We report the case of a one and half month old infant who presented with respiratory distress which was initially suspected as left pneumothorax on frontal chest radiograph but was later found to be due to hyperinflated left lung and hence the possibility of congenital lobar emphysema was considered. CT thorax and limited MRI sections revealed a cystic lesion in mediastinum causing obstructive emphysema and mediastinal displacement. He underwent an emergency thoracotomy and excision of the cyst via an extrapleural approach. Post operatively, rapid improvement of the infant was noticed both clinically as well as radiologically. Cross sectional imaging like CT or MR is required for reaching the correct and early diagnosis in paediatric patients with respiratory distress, when there is diagnostic dilemma based on chest radiograph. Address: Assistant Professor, Department of Radiology, Christian Medical College , Vellore, Tamil Nadu, India . Associate Professor, Department of Pediatric Surgery, Christian Medical College , Vellore, Tamil Nadu, India . Assistant Professor, Department of Pediatrics, Christian Medical College , Vellore, Tamil Nadu, India . Pesident Department of Pediatric Surgery, Christian Medical College , Vellore, Tamil Nadu, India .		
	Resident, Department of Pediatric Surgery, Christian Medical College, Vellore, Tamil Nadu, India.		
520.	<ul> <li>Resident, Department of Pediatrics, Christian Medical College, Vellore, Tamil Nadu, India.</li> <li>Viswanath K(1), Ps R(2), Chakraborty A(3), Prasad JH(4), Minz S(5), George K(6).</li> <li>A community based case control study on determinants of perinatal mortality in a tribal population of southern India.</li> <li>Rural Remote Health. 2015 Jul-Sep;15(3):3388. Epub 2015 Sep 21.</li> <li>Author information: <ul> <li>(1)Department of Community Medicine, Christian Medical College, Vellore, India.</li> <li>kumaran.viswanath@gmail.com.</li> <li>(2)Department of Community Medicine, Christian Medical College, Vellore, India.</li> <li>rakeshrenjini@gmail.com.</li> <li>(3)Department of Community Medicine, Christian Medicine, Christian Medical College, Vellore, India. dr.arupchakraborty@gmail.com.</li> <li>(4)Department of Community Medicine, Christian Medical College, Vellore, India.</li> </ul> </li> </ul>	PMID: 26391225 WOS:000365601800034	INT
	<ul> <li>Vellore, India. minzshanti@gmail.com. (6)Department of Community Medicine, Christian Medical College, Vellore, India. kurien@cmcvellore.ac.in.</li> <li>INTRODUCTION: Perinatal mortality rate has been regarded as an indicator of the quality of prenatal, obstetric and neonatal care in an area, which also reflects the maternal health and socioeconomic environment. The objective of the current study was to identify causes and risk factors for perinatal deaths among the tribal population in Jawadhi Hills, Tamil Nadu, southern India. METHODS: A community-based case control study design was used, where a case was aperinatal death and controls were from a sampling frame of all children who were born alive in the same area ±7 days from the day of birth of the case. The WHOStandard International Verbal Autopsy form was used to arrive at the cause ofdeath. Univariate and multivariate analyses for factors associated with perinataldeaths were done. RESULTS: A total of <b> </b></li> <li>Among the perinatal deaths, 40% were born prematurely. Sepsis (17.5%) and birth asphyxias (12.5%) were the major causes of deaths. In the final logistic regression model, parity ≥4 (odds ratio [OR] 5.75 [95% confidence interval (CI) 1.88-17.54]), preterm births (OR 5.62 [95% CI 1.086.73]) were</li> </ul>		

			- <u>-</u>
	significantlyassociated with the perinatal deaths. CONCLUSIONS: Prematurity, poor accessibility and a high parity were significantly associated with perinatal deaths in the tribal population of Jawadhi Hills.		
521.	Vyas R, Zachariah A, Swamidasan I, Doris P, Harris I. An academic support programme for rural practitioners in India. Medical Education. 2015;49(5):513 doi: 10.1111/medu.12709.	PMID:25924128 WOS:000353977000012	INT
522.	Vyas, S., Thangakunam, B., Gupta, R., Michael, J. S. and Christopher, D. J. Interferon gamma release assay and tuberculin skin test positivity in sarcoidosis Lung India; 2015, 32 (1): 91-2 Address: Department of Pulmonary Medicine, Christian Medical College, Vellore, Tamil Nadu, India. E-mail: djchris@cmcvellore.ac.in. Department of Microbiology, Christian Medical College, Vellore, Tamil Nadu, India.	PMID: 25624613 4298936: 4298936	NAT
523.	<ul> <li>Watt T(1), Barbesino G, Bjorner JB, Bonnema SJ, Bukvic B, Drummond R, Groenvold M, Hegedüs L, Kantzer V, Lasch KE, Marcocci C, Mishra A, Netea-Maier R, Ekker M, Paunovic I, Quinn TJ, Rasmussen ÅK, Russell A, Sabaretnam M, Smit J, Törring O, Zivaljevic V, Feldt-Rasmussen U.</li> <li>Cross-cultural validity of the thyroid-specific quality-of-life patient-reported outcome measure, ThyPRO.</li> <li>Qual Life Res. 2015 Mar;24(3):769-80. doi: 10.1007/s11136-014-0798-1. Epub 2014 Sep 7.</li> <li>Author Address:</li> <li>G. Barbesino Massachusetts General Hospital, Boston, MA, USA J. B. Bjorner QualityMetric, Lincoln, RI, USA S. J. Bonnema L. Hegedu s Department of Endocrinology and Metabolism, Odense University Hospital, Odense, Denmark B. Bukvic I. Paunovic V. Zivaljevic Clinical Centre of Serbia, Belgrade, Serbia R. Drummond T. J. Quinn Institute of Cardiovascular and Medical Sciences, University of Glasgow, Scotland, UK M. Groenvold Research Unit, Department of Palliative Medicine, Bispebjerg Hospital and Department of Health Service Research, University of Copenhagen, Copenhagen, Denmark V. V. Kantzer Health Research Associates Inc., Mountlake Terrace, WA, USA K. E. Lasch Pharmerit International, Bethesda, MD, USA C. Marcocci University Department of Clinical and Experimental Medicine, University of Pisa, and Endocrine Unit 2, University Hospital of Pisa, Pisa, Italy A. Mishra Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow, India R. Netea-Maier M. Ekker J. Smit Department of Internal Medicine, Radboud University Medical Center Nijmegen, Netherlands A. Russell University College Cork, Cork, Ireland M. Sabaretnam Christian Medical College, Vellore, India</li> <li>BACKGROUND AND PURPOSE: Thyroid diseases are common and often affect quality of life (QoL). No cross-culturally validated patient-reported outcome measuring thyroid-related QoL is available. The purpose of the present study was to test the cross-cultural validity of the newly developed thyroid-related patient-reported outcome Thy</li></ul>	PMID: 25194574 WOS:000350694900025	INT

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	thyroid diagnosis. DIF was investigated by ordinal logistic regression, testing for both statistical significance and magnitude ( $\Delta R$ (2) > 0.02). Scale level was estimated by the sum score, after purification. RESULTS: For twelve of the 84 tested items, DIF was identified in more than one language. Eight of these were small, but four were indicative of possible low translatability. Twenty-one instances of DIF in single languages were identified, indicating potential problems with the particular translation. However, only seven were of a magnitude which could affect scale scores, most of which could be explained by sample differences not controlled for. CONCLUSION: The ThyPRO has good cross-cultural validity with only minor cross-cultural invariance and is recommended for use in international multicenter studies.		
524.	<ul> <li>White AC Jr(1), Kang G.</li> <li>Antibiotics, microbiota and health: are there dangers hiding in plain sight?</li> <li>Curr Opin Infect Dis. 2015 Oct;28(5):455-6. doi: 10.1097/QCO.0000000000000195.</li> <li>Author information: <ul> <li>(1)aInfectious Disease Division, Department of Internal Medicine, University of Texas Medical Branch, Galveston, Texas, USA bThe Wellcome Trust Research Laboratory, Division of Gastrointestinal Sciences, Christian Medical College, Vellore, Tamil Nadu, India.</li> </ul> </li> </ul>	PMID: 26237548 WOS:000369425200007	INT
525.	<ul> <li>Williams A(1), Singh G(1), George SP(1).</li> <li>Procedural sedation for a child with a mediastinal mass and superior vena caval syndrome.</li> <li>J Anaesthesiol Clin Pharmacol. 2015 Jul-Sep;31(3):421-4. doi: 10.4103/0970-9185.161735.</li> <li>Author information: (1)Department of Anesthesiology, Christian Medical College and Hospital, Vellore, Tamil Nadu, India.</li> </ul>	PMC4541207, 26330739	NAT
526.	<ul> <li>Wilson BT(1), Stark Z(2), Sutton RE(3), Danda S(4), Ekbote AV(4), Elsayed SM(5), Gibson L(6), Goodship JA(1), Jackson AP(7), Keng WT(8), King MD(9), McCann E(10),Motojima T(11), Murray JE(7), Omata T(11), Pilz D(12), Pope K(2), Sugita K(13),White SM(14), Wilson IJ(15).</li> <li>The Cockayne Syndrome Natural History (CoSyNH) study: clinical findings in 102individuals and recommendations for care.</li> <li>Genet Med. 2015 Jul 23. doi: 10.1038/gim.2015.110. [Epub ahead of print]</li> <li>Author information:</li> <li>(1)1] Northern Genetics Service, Newcastle Upon Tyne NHS Foundation Trust, International Centre for Life, Newcastle upon Tyne, UK [2] Institute of Genetic</li> <li>Medicine, Newcastle University, International Centre for Life, Newcastle upon Tyne, UK. (2)Murdoch Childrens Research Institute, Parkville, Victoria, Australia. (3)Northern Genetics Service, Newcastle upon Tyne, UK. (4)Clinical Genetics Unit, Christian Medical College, Vellore, India. (5)1] Medical Genetics</li> <li>Center, Korba, Cairo, Egypt [2] Children's Hospital, Ain Shams University, Cairo,Egypt. (6)Paediatrics &amp; Child Health, University College Cork, Cork, Republic of Ireland. (7)MRC Human Genetics Unit, Institute of Genetics</li> </ul>	26204423	INT

	and MolecularMedicine, University of Edinburgh, Edinburgh, UK. (8)Clinical Genetics, Hospital Kuala Lumpur, Kuala Lumpur, Malaysia. (9)1] Paediatric Neurology, Temple Street Children's University Hospital, Dublin, Republic of Ireland [2] School of Medicine and Medical Science, University College Dublin, Dublin, Republic of Ireland. (10)Department of Clinical Genetics, Glan Clwyd Hospital, Rhyl, Denbighshire, UK. (11)Division of Child Neurology, Chiba Children's Hospital, Chiba, Japan. (12)Institute of Medical Genetics, University Hospital of Wales, Cardiff, UK. (13)Division of Child Health, Faculty of Education, Chiba University, Chiba, Japan. (14)1] Murdoch Childrens Research Institute, Parkville, Victoria, Australia [2] Department of Paediatrics, University of Melbourne, Parkville, Victoria, Australia. (15)Institute of Genetic Medicine, Newcastle University, International Centre for Life, Newcastle upon Tyne, UK. PURPOSE: Cockayne syndrome (CS) is a rare, autosomal-recessive disorder characterized by microcephaly, impaired postnatal growth, and premature pathological aging. It has historically been considered a DNA repair disorder; fibroblasts from classic patients often exhibit impaired transcription-coupled nucleotide excision repair. Previous studies have largely been restricted to case reports and small series, and no		
	guidelines for care have been established. METHODS: One hundred two study participants were identified through a network of collaborating clinicians and the Amy and Friends CS support groups. Families witha diagnosis of CS could also self-recruit. Comprehensive clinical information foranalysis was obtained directly from families and their clinicians. RESULTS AND CONCLUSION: We present the most complete evaluation of Cockaynesyndrome to date, including detailed information on the prevalence and onset of clinical features, achievement of neurodevelopmental milestones, and patient management. We confirm that the most valuable prognostic factor in CS is the presence of early cataracts. Using this evidence, we have created simple guidelines for the care of individuals with CS. We aim to assist clinicians in the recognition, diagnosis, and management of this condition and to enable families to understand what problems they may encounter as CS progresses.Genet Med advance online publication 23 July 2015Genetics in Medicine (2015); doi:10.1038/ gim.2015.110.		
527.	Winston AB(1), Vazhudhi K(1), Sen S(1), Thomas E(2), Benjamin S(2), PeedicayilJ(1). Inhibition by sildenafil of contractility of isolated non-pregnant human myometrium. J Pharmacol Pharmacother. 2015 Jul-Sep;6(3):136-41. doi:	PMC4544134, 26311996	NAT
	10.4103/0976-500X.162020.		
	Author information: (1)Department of Pharmacology and Clinical Pharmacology, Christian Medical College, Vellore, Tamil Nadu, India. (2)Department of Obstetrics and Gynaecology,Christian Medical College, Vellore, Tamil Nadu, India.		
	OBJECTIVE: To investigate the ability of sildenafil to inhibit the contractility of isolated non pregnant human myometrium. MATERIALS AND METHODS: The inhibitory effect of three concentrations (3, 10, and 30 $\mu$ M) of sildenafil on 55 mM KCl-induced contractility of isolated non-pregnant human myometrium was studied. The ability of the guanylyl cyclase inhibitor ODQ (10 $\mu$ M), the adenylyl cyclase inhibitor MDL-12,330A (10 $\mu$ M), the non-specific potassium channel blocker TEA (2 mM), and the calcium-sensitive potassium (BKCa) channel blocker iberiotoxin (100 nM) to reverse the inhibition of 10 $\mu$ M sildenafil on KCl-induced myometrial contractility was also studied. RESULTS: Sildenafil produced a concentration-dependent inhibition of KCl-induced myometrial contractility that was statistically significant at all three concentrations of sildenafil used.		

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	The inhibition by 10 µM sildenafil of KCI-induced myometrial contractility was not reversed by the concurrent administration of ODQ or MDL-12,330A. The inhibition of 10 µM sildenafil of myometrial contractility was partially reversed by concurrent administration of TEA and totally and significantly reversed by the concurrent administration of iberiotoxin. CONCLUSIONS: These results suggest that sildenafil inhibits the contractility of isolated non-pregnant human myometrium. The results suggest that sildenafil does so by opening BKCa channels.		
528.	<ul> <li>Wu Q(1), Chen W(2), Sinha B(3), Tu Y(4), Manning S(5), Thomas N(6), Zhou S(7), Jiang H(8), Ma H(9), Kroessler DA(4), Yao J(9), Li Z(8), Inder TE(5), Wang X(10).</li> <li>Neuroprotective agents for neonatal hypoxic-ischemic brain injury.</li> <li>Drug Discov Today. 2015 Nov;20(11):1372-81. doi: 10.1016/j.drudis.2015.09.001.Epub 2015 Sep 7.</li> <li>Author information: <ul> <li>(1)Department of Neurosurgery, Brigham and Women's Hospital, Harvard Medical School, Boston, MA 02115, USA; Acupuncture and Moxibustion College, Chengdu University of Traditional Chinese Medicine, Chengdu, Sichuan 610091, China. (2)Department of Neurosurgery, Brigham and Women's Hospital, Harvard Medical School, Boston, MA 02115, USA; Department of Clinical Laboratory, Dongfeng Hospital of Hubei University of Medicine, Shiyan, Hubei 442012, China. (3)Department of Neurosurgery, Brigham and Women's Hospital, Harvard Medical School, Boston, MA 02115, USA. (4)Department of Neurosurgery, Brigham and Women's Hospital, Harvard Medical School, Boston, MA 02115, USA. (5)Department of Pediatrics, Boston University Schoolof Medicine, Boston, MA 02115, USA. (5)Department of Neurosurgery, Brigham and Women's Hospital, Harvard Medical School, Boston, MA 02115, USA. (5)Department of</li> <li>Pediatric Newborn Medicine, Brigham and Women's Hospital, Harvard Medical School, Boston, MA 02115, USA.</li> <li>(6)Department of Neonatology, Christian Medical College, Vellore, Tamil Nadu, India. (7)Department of Orthopedic Surgery, Brigham and Women's Hospital, Harvard Medical School, Boston, MA 02115, USA.</li> <li>(8)Department of Pediatrics, Affiliated Hospital, Harvard Medical School, Boston, MA 02115, USA.</li> <li>(9)Third Affiliated Hospital, Guangxi Medical University, Nanning, Guangxi 530031, China.</li> <li>(10)Department of Pediatrics, Affiliated Hospital, Harvard Medical School, Boston, MA 02115, USA.</li> <li>(9)Third Affiliated Hospital, Guangxi Medical University, Nanning, Guangxi 530031, China.</li> <li>(10)Department of Pediatrics, Affi</li></ul></li></ul>	PMID: 26360053 WOS:000365369200013	INT
529.	Yacob M, Inian S, Sudhakar CB Gastrointestinal Stromal Tumours: Review of 150 Cases from a Single Centre. Indian J Surg. 2015 Dec;77(Suppl 2):505-10. doi: 10.1007/s12262-013-0899-z. Epub 2013 Mar 28.	PMC4692851 PMID: 26730054 WOS:000368531700063	NAT
	Department of Surgery Unit 3, Christian Medical College and Hospital, Vellore, 632004 Tamilnadu India		

	Gastrointestinal stromal tumours (GIST) are the most common mesenchymal tumours of the gastrointestinal tract. They constitute a significant percentage ranging from 1-2 % of all the gastrointestinal neoplasms [11]. Knowledge on the molecular biology and behavior of these tumours is still not very clear. The clinicopathologial features are variable and surgical resection with chemotherapy is the main modality of treatment. We have retrospectively analyzed the clinicopathological features, treatment and prognosis of 150 patients managed in the Department of Surgery. Retrospective review of the records of 150 patients diagnosed with gastrointestinal stromal tumours and managed during the period January 2006 to December 2011. Clinicopathological features, immunohistochemistry, mitotic index, surgical resection adjuvant chemotherapy and survival analyzed. One hundred and fifty patients diagnosed with GIST and treated were reviewed. Ninety five of them were males (63.3 %). The tumour was most commonly seen during the fourth and fifth decades of life. Abdominal pain (52 %), intestinal bleeding (40 %) and abdominal mass (25 %) were the common clinical symptoms. Sixty percent of the tumours (90/150) were located in the stomach followed by small bowel (20 %) and duodenum (14.6 %). One hundred and thirty-five patients underwent excision of the tumour and five patients had multi organ resection of the adjacent organs like spleen, tail of the pancreas and kidney. Fifteen patients (D1 %) received neoadjuvant Imatinib for down staging of the tumour prior to surgery. The tumours. Majority of the patients with high and intermediate-risk category received adjuvant Imatinib (65/77). Seventeen patients (11.3 %) developed recurrence of the tumour on follow-up and rest of the patients had table disease. Eight of the 15 patients (53 %) who had advanced disease developed recurrence of the disease over 6 months to 1 year. Fifteen patients died on follow-up between 2 and 5 years. Gastrointestinal tumours are the most common non epitheli		
530.	Yadav VK(1), Sudhakar SV(2), Panwar J(2). Pathognomonic MRI and MR spectroscopy findings in cerebral hydatid cyst. Acta Neurol Belg. 2015 Nov 2. [Epub ahead of print]	PMID: 26525195	INT
	Author information: (1)Department of Radiology, Christian Medical College and Hospital, Vellore, Tamilnadu, India. vkyadav77@yahoo.co.in. (2)Department of Radiology, Christian Medical College and Hospital, Vellore, Tamilnadu, India.		
531.	Yang Y(1), Kumar S(1), Lim LS(1), Silverman ED(1), Levy DM(2). Risk Factors for Symptomatic Avascular Necrosis in Childhood-onset Systemic LupusErythematosus. J Rheumatol. 2015 Dec;42(12):2304-9. doi: 10.3899/jrheum.150464. Epub 2015 Nov15.	PMID: 26568601 WOS:000365909900013	INT
	(1)From the Faculty of Medicine, University of Ottawa, Ottawa; Hospital for Sick Children; University of Toronto, Toronto, Ontario, Canada; Christian Medical College, Vellore, India.Y. Yang, BHSc, Faculty of		

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	Medicine, University of Ottawa; S. Kumar, MBBS, MD, DCH, Christian Medical College; L.S. Lim, MBBS, MRCPCH, FRCPC, PhD(c), Hospital for Sick Children, and University of Toronto; E.D. Silverman, MD, FRCPC, Hospital for Sick Children, and University of Toronto; D.M. Levy, MD, MS, FRCPC, Hospital for Sick Children, and University of Toronto. (2)From the Faculty of Medicine, University of Ottawa, Ottawa; Hospital for Sick Children; University of Toronto, Toronto, Ontario, Canada; Christian Medical College, Vellore, India.Y. Yang, BHSc, Faculty of Medicine, University of Ottawa; S. Kumar, MBBS, MD, DCH, Christian Medical College; L.S. Lim, MBBS, MRCPCH, FRCPC, PhD(c), Hospital for Sick Children, and University of Toronto; E.D. Silverman, MD, FRCPC, Hospital for Sick Children, and University of Toronto; D.M. Levy, MD, MS, FRCPC, Hospital for Sick Children, and University of Toronto. <u>Deborah.levy@sickkids.ca</u> .		
	OBJECTIVE: To examine the frequency and risk factors for symptomatic avascular necrosis (AVN) in childhood-onset systemic lupus erythematosus (cSLE). METHODS: A single-center, nested, matched, case-control design was used. There were 617 patients with cSLE followed at the Hospital for Sick Children (SickKids) Lupus Clinic between July 1982 and June 2013 included in the study. The AVN cohort consisted of 37 patients identified with clinical findings of symptomatic AVN and diagnosis was confirmed by 1 or more imaging modalities. Three controls were matched to each patient with AVN by date and age at diagnosis. Baseline clinical, laboratory, and treatment characteristics were compared between patients with AVN and controls by univariable analyses and if statistically significant, were included in a multivariable logistic regression model. RESULTS: A total of 37/617 patients (6%) developed symptomatic AVN in 91 jointsduring followup at SickKids. The mean duration to disease was 2.3 years. The hip was the most commonly involved joint (26/37, 70%). Compared with the matched non-AVN cohort, patients with AVN had a higher incidence of central nervous system (CNS) involvement and nephritis, required greater cumulative prednisone (PRED) from cSLE diagnosis to AVN, received a greater maximal daily PRED dose, and had more frequent use of pulse methylprednisolone therapy. Multivariable regression analysis confirmed major organ involvement (CNS disease and/or nephritis) and maximal daily PRED dose as significant predictors of symptomaticAVN development. CONCLUSION: Patients with cSLE with severe organ involvement including nephritisand CNS disease and higher maximal daily dose of PRED are more likely to develop symptomatic AVN.		
532.	Yesudhason BL(1), Mohanram K(2). Candida tropicalis as a Predominant Isolate from Clinical Specimens and its Antifungal Susceptibility Pattern in a Tertiary Care Hospital in Southern India. J Clin Diagn Res. 2015 Jul;9(7):DC14-6. doi: 10.7860/JCDR/2015/13460.6208. Epub2015 Jul 1. Author information: (1)Associate Professor, Department of Clinical Microbiology, Christian Medical College, Vellore, India . (2)Professor, Department of Microbiology, Matha Medical College , Thandalam, Chennai, India . BACKGROUND: The incidence of infections caused by Candida species has increased considerably over the past three decades mainly due to the rise of the AIDS epidemic, an increasingly aged population, higher numbers of immunocompromised patients and the more widespread use of indwelling medical devices. Candida tropicalis is emerging pathogenic yeast among non-albicans species. Recently drug-resistant C.tropicalis was also reported in hospitals. AIM AND OBJECTIVE: The present study aimed to isolate and speciate C. tropicalis from various clinical samples and to determine its antifungal susceptibility profile. MATERIALS AND METHODS: Clinical samples such as urine, blood, exudates and vaginal swab which were submitted to the Microbiology laboratory during the year 2013 were screened for the growth of Candida	PMID: 26393128	NAT

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	CINC SCIENTING FODERCATION FOR THE TEAK 2013 (JANDART TO DEC		
	species, which then identified as C.tropicalis by the routine microbiological procedures such as germ tube formation, assimilation and fermentation of sugars and colony color on HICHROM Candida agar. Antifungal susceptibility was performed by disc diffusion method with the drugs Amphotericin-B, Itraconazole, Ketaconazole and Fluconazole on C. tropicalis isolates. RESULTS: A total number of 112 Candida isolates were isolated during the year 2012 from various clinical specimens. Among them 61 (54.3%) were identified as C.tropicalis. All the C. tropicalis isolates were sensitive to Amphotericin-B (100%) but 23 isolates (37.7%) were resistant to Fluconazole. CONCLUSION: We conclude that identification of Candida species is important toknow the prevalent species in the clinical setup and routine antifungal susceptibility should be performed to avoid inappropriate treatment.		
533.	<ul> <li>Yoganathan S(1), Sudhakar SV(2), Thomas M(3), Dutta AK(4), Danda S(4).</li> <li>"Eye of tiger sign" mimic in an adolescent boy with mitochondrial membrane protein associated neurodegeneration (MPAN).</li> <li>Brain Dev. 2015 Nov 18. pii: S0387-7604(15)00229-6. doi: 10.1016/j.braindev.2015.10.017.</li> <li>(1)Department of Neurological Sciences, Christian Medical College, Vellore, India. (2)Department of Radiodiagnosis, Christian Medical College, Vellore, India. (2)Department of Radiodiagnosis, Christian Medical College, Vellore, India. (3)Department of Neurological Sciences, Christian Medical College, Vellore, India. Electronic address: maya@cmcvellore.ac.in. (4)Department of Medical Genetics, Christian Medical College, Vellore, India.</li> <li>Neurodegeneration with brain iron accumulation (NBIA) refers to an inherited heterogeneous group of disorders pathologically characterized by focal brain iron deposition. Clinical phenotype, imaging findings and genotype are variable among the different types of this disorder. In this case report, we describe the imaging finding of an adolescent boy with mitochondrial membrane protein associated neurodegeneration (MPAN), a subentity of NBIA. Magnetic resonance imaging of brain revealed hypointensity of globi pallidi with medial medullary lamina appearing as a hyperintense streak in T2 weighted images. Mild cerebellar atrophy in T2 weighted images and blooming of substantia nigra and globi pallidi in susceptibility weighted images were also observed. Imaging findings in patients with MPAN mimics the eye of tiger appearance in patients with patothenate kinase associated neurodegeneration. Classical phenotype and eye of tiger sign mimic in imaging of patients with NBIA should raise the suspect for MPAN. Genetic studies helps in the confirmation of diagnosis of this neurodegenerative disorder.</li> </ul>	PMID: 26602591	INT
534.	<ul> <li>Yoganathan S(1), Thomas MM(1), Mathai S(2), Ghosh U(2).</li> <li>Neuroregression as an initial manifestation in a toddler with acquired pernicious anaemia.</li> <li>BMJ Case Rep. 2015 Dec 17;2015. pii: bcr2015213540. doi: 10.1136/bcr-2015-213540.</li> <li>(1)Department of Neurological Sciences, Christian Medical College, Vellore, Tamilnadu, India. (2)Department of Pediatrics, Christian Medical College, Vellore, Tamilnadu, India.</li> <li>The aetiology spectrum for neuroregression in infants and toddlers is diverse. Vitamin B12 deficiency-mediated neuroregression is less commonly considered as a differential. Prevalence of pernicious anaemia in the general population is 0.1% and is extremely rare in children. We describe a 35-month-old toddler with neuroregression, seizures, coarse tremors, bleating cry and neuropathy. His clinical symptomatology mimicked grey matter degenerative illness and infantile tremor syndrome, a nutritional deficiency-mediated</li> </ul>	PMID: 26678841 [PubMed - in process]	INT

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	movement disorder. His vitamin B12 level was low and serum homocysteine level was elevated. Haematological manifestations were not overt and anti-intrinsic factor antibody was positive. With parenteral vitamin B12 therapy, there was a dramatic response with clinical and laboratory translation. This report emphasises the need for a high index of suspicion and screening for markers of vitamin B12 deficiency in all children with unexplained acute or subacute neuroregression, seizures and movement disorders as it is potentially reversible.		
535.	Yuvarani I, Senthilkumar S, Venkatesan J, Kim S, Al-Kheraif A, Anil S, et al. Chitosan Modified Alginate- Polyurethane Scaffold for Skeletal Muscle Tissue Engineering. Journal of Biomaterials and Tissue Engineering. 2015;5(8):665-72. doi: 10.1166/jbt.2015.1358. <u>http://dx.doi.org/10.1166/jbt.2015.1358</u>	WOS:000365554800007	INT

MONTH & YEAR	INTERNATIONAL	NATIONAL	TOTAL
JANUARY - JUNE 2015	146	112	258
JULY – DECEMBER 2015	185	92	277
TOTAL =	331	204	535