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ORIGINAL ARTICLES

251 Variations of Vascular Endothelial Growth Factor and Pigment Epithelial-derived Factor Are Related to Retinopathy of Prematurity in Human Babies

D Zhu, C Chen, W Shi

Increased expression of vascular endothelial growth factor (VEGF) levels is associated with older postnatal day age. Monitoring of variations in VEGF level and pigment epithelial-derived factor/VEGF ratio might be helpful in predicting the occurrence of retinopathy of prematurity in premature human babies.

256 Cloning and Constructing a Plasmid Encoding Leishmania Eukaryotic Initiation Factor Gene of Leishmania major Fused with Green Fluorescent Protein Gene as a Vaccine Candidate

N Maspi, F Ghaffarifar, Z Sharifi, A Dalimi

The LeIF gene was cloned into pJET1.2/blunt vector and then it was subcloned into pEGFP-N1 in the upstream of EGFP gene. The recombinant plasmid could be used as a vaccine candidate against leishmaniasis, and EGFP is used as a reporter to detect this protein expression.

260 Circulating Adipokine Levels in Non-diabetic Subjects with High Normal Blood Pressure

AF Rubio-Guerra, H Vargas-Robles, MB Durán-Salgado, JJ Lozano-Nuevo, G Vargas-Ayala, BA Escalante-Acosta

Adipokines are adipocyte-secreted peptides that are involved in several pathways that lead to insulin resistance, inflammation, atherosclerosis and cardiovascular disease. Increased levels of resistin and/or decreased levels of adiponectin are associated with cardiovascular mortality and the development of hypertension.

263 Aetiology of Paediatric End-stage Renal Failure in Jordan: A Multicentre Study

KF Akl, JH Albaramki, I Hazza, R Haddidi, SH Saleh, R Haddad, S Ajarmeh, RS Al-Assaf, E Al-Qadi

This is the first report on the aetiology of end-stage renal failure in children in Jordan. The most common aetiologies were congenital anomalies of the kidney and urinary tract, 45.8%, hereditary disorders, 23.2%, and glomerulopathies, 22.9%.

267 The Risk Factors of Chronic Kidney Disease among Nursing Home Residents

L-H Chen, C-F Mu, C-Y Hsu

Metabolic syndrome may be a main contributor to the aetiology of chronic kidney disease (CKD) among nursing home residents. Monitoring body mass index and waist circumference is a simple but effective way to suspect presence of CKD.

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*Continued from front cover***271 Super-resolution for Medical Image via Sparse Representation and Adaptive M-estimator**

Q Xie, N Sang

This paper used a method which combines sparse signal representation and image dictionary learning with adaptive M-estimator to implement single-image super-resolution. The algorithm can preserve the profile, sharp edges and details of the original image while enlarging the image.

277 Evaluation of Health-related Quality of Life in Paediatric Patients with Acute Lymphoblastic Leukaemia

OE Bulut, M Ergüven, D Kalyoncu, B Şahin, M Yazici

The Paediatric Quality of Life Inventory is a widely used instrument to measure paediatric health-related quality of life (HRQOL) in children. In this study, HRQOL scores were significantly lower in patients with acute lymphoblastic leukaemia than in healthy controls.

281 Clinical Profile of Familial Mediterranean Fever in a Paediatric Population in Eastern Turkey

C Kosan, N Diri, A Cayir, MI Turan

Familial Mediterranean fever is a frequently seen chronic inflammatory disease that can lead to severe morbidity and mortality if left untreated. Severity and frequency of attacks are correlated with mutations. However, environmental factors play an important role as the clinical course can differ even in people with mutations.

287 The Place of Atopy in the Aetiology of Acute Appendicitis in Children

MN Cevizci, A Sogut, A Cayir, M Demir, SA Ozman, F Erdoğan

The aetiology of appendicitis is multifactorial, although it is affected by several precursor factors. While there are several known factors in acute appendicitis, the cause cannot be identified in some cases. The purpose of this study was to investigate whether allergic diseases cause a disposition to appendicitis.

*Continued on Inside Back Cover***BUSINESS INFORMATION**

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- 291 Cytomegalovirus Identification in Blood and Urine of Newborns by Nested Polymerase Chain Reaction**
PC Niz Xavier, P Gonçalves Vieira, T de Souza Arantes, M Yano, LV Martinelli Tavares, AM Duarte Miglioli, CS Martinbianco Figueiredo, A Sousa Martins, D Bastista Palhares
Identification of cytomegalovirus in newborns (congenital) by molecular biology methods (PCR) was more feasible using urine collection which is less invasive. The procedure, though laborious, is less expensive and more efficient compared to the use of blood or blood culture.
- 295 Evaluation of Device-associated Nosocomial Infections in a Pediatric Intensive Care Unit**
S Cevik, R Tekin, ÖO Gundeslioglu, F Aktar, ŞM Yilmaz, M Ay
The present study was a surveillance study performed in an paediatric intensive care unit, which is the largest study in its area conducted in Turkey. We aimed to determine the device-associated healthcare-associated infections rates and their responsible pathogens.
- 300 Giant Cell Arteritis – Who to Refer to?**
LT Lim, EY Ah-kee, A Strang, A Ferguson
Visual symptoms associated with giant cell arteritis (GCA) need immediate referral to ophthalmology. Patients without visual symptoms should be appropriately referred to rheumatology. Clinicians should be familiar with the broad spectrum of atypical presentations of GCA in order to make an accurate diagnosis.
- 304 Preseptal Cellulitis Or Orbital Cellulitis?**
LT Lim, D Miller, EY Ah-kee, A Ferguson
Preseptal cellulitis and orbital cellulitis can both present similarly, but their management differs. Prompt recognition of orbital cellulitis can be sight saving. This article provides a systematic approach to distinguish between preseptal cellulitis and orbital cellulitis at presentation.
- 308 Effects of Different Local Anaesthetics on Oto-acoustic Emission Tests after Spinal Anaesthesia**
T Sitalci, O Akyol, Z Alkan, E Ozyuvaci, O Yigit
The aim of this clinical observation study is to assess whether there is any effect of bupivacaine and levobupivacaine on transient evoked oto-acoustic emission (TEOAE) tests following spinal anaesthesia; TEOAE tests enable objective evaluation of hearing ability.
- 312 Thyroid Hormone Levels in Chronic Schizophrenic Patients: Association with Psychopathology**
S Telo, S Bilgic, N Karabulut
The aim of this study was to investigate the changes in thyroid hormone levels in patients with chronic schizophrenia. The level of FT4 in the schizophrenia group was statistically significantly lower than in the control group.
- 316 Risk Factors for Death of Elderly Patients with Acute Obstructive Suppurative Cholangitis**
C-L Ma, L-P Wang, S Qiao, X-F Wang, X Zhang, R-J Sun, J-G Liu, Y-C Li
Shock, endoscopic retrograde cholangiopancreatography plus surgery, advanced age, low platelet count, presence of co-morbidities, door to treatment time > 24 hours, hypoproteinaemia and hyperbilirubinaemia were the independent risk factors for death of elderly patients with acute obstructive suppurative cholangitis.
- 320 Medication Adherence and Health Insurance/Health Benefit in Adult Diabetics in Kingston, Jamaica**
RJ Bridgelal-Nagassar, K James, RP Nagassar, S Maharaj
Among diabetic patients who had health insurance or health benefit, 71.5% were adherent and 28.5% were non-adherent. This difference was statistically significant. Prevalence of medication non-adherence was 33%. In Kingston, diabetic patients who are adherent are more likely to have health insurance/health benefit.
- 323 Polypharmacy and the Risk of Malnutrition among Independently-living Elderly Persons in Trinidad and Tobago**
P Ramgoolie, S Nichols
In this study, we investigated the association between polypharmacy and risk of malnutrition. The findings indicate that among independent-living elderly persons, polypharmacy was associated with increased risk of malnutrition.
- 328 Establishing a Telephone Medication Order Policy and Protocol for a Small Private Hospital in Jamaica**
M Grant-Coke, DL Powell, J Lyttle, H Hewitt
The absence or lack of adherence to a standard protocol in the administration of telephone medication orders places patients in jeopardy of experiencing medication errors and potential untoward health implications and healthcare organizations at risk for undesirable outcomes.
- 332 Impact of the ‘Providing Access to Continued Education’ Programme on Repeat Teenage Pregnancy in The Bahamas**
VP Sakharkar, MA Frankson, PR Sakharkar
Providing Access to Continuing Education (PACE) programme helps teenagers in continuing their education after completion of pregnancy and educates them about making wise reproductive choices. This study examines PACE’s effectiveness in reducing the rate of repeat pregnancy amongst its participants

REVIEW**337 Clinical and Therapeutic Implications of Histone Acetylation in Breast Cancer**

SK Riaz, M Saeed, MFA Malik

The role of epigenetic changes with special focus on histone modifying enzymes in breast cancer is explored. Blending both epigenetic anomalies and genome instability is suggested as a useful tool for breast cancer diagnosis. A basic understanding of the histone acetyltransferases and histone deacetylases families is required in designing potential cancer therapeutics.

345 Current Concepts of Neurophysiological Factors in Central Regulatory Mechanism of Rapid Eye Movement Sleep: A Review

EB Ezenwanne

A review of factors in the mechanism of rapid eye movement sleep re-established that it is a crucial sleep phase in vital brain functions. The review revealed that vital brain processes are probably rapid eye movement sleep driven.

350 Montelukast for Postinfectious Cough: A Systematic Review of Randomized Controlled Trials

S Dong, Y Zhong, W Lu, H Jiang, B Mao

Clinical evidence to support montelukast in humans with postinfectious cough (PIC) is lacking. This current review aims to assess the efficacy and safety of montelukast in the treatment of PIC through a systematic review of all available randomized controlled trials.

358 Pharmacology and Anti-infective Role of Raxibacumab: A Novel Monoclonal Antibody for the Treatment of Anthrax

H Singh, S Ratol, P Thangaraju, S Kumar, A Goel

Monoclonal antibody against anthrax is a novel strategy for preventing the dreadful highly mortal anthrax disease. This review helps young students, clinicians and the scientist to enhance knowledge in the field of monoclonal antibody and anthrax.

363 Paediatric Medulloblastoma: An Updated Review

SJ Taran, R Taran, N Malipatil, K Haridas

Cases of paediatric medulloblastoma are rapidly increasing and account for about two persons per million per year worldwide. The treatment options for medulloblastoma are maximal safe resection (plus/minus CSF diversion), neuraxis radiotherapy and chemotherapy. Recent advances in cancer biology have changed the emphasis to novel agents that target molecular changes crucial for tumour proliferation or survival.

DENTAL FORUM**369 Molecular Advancements in Forensic Odontology**

A Babu RS, D Rose

Tooth is considered a storehouse of DNA, and serves as an important source in human identification procedures. Adapting the advancements of molecular technology has created a new arena in forensic odontology. This review paper discusses various molecular techniques that are employed in forensic odontology.

375 Prevalence of Oral Lesions in the Elderly

I Minic, A Pejic, M Kostic, N Krunic, D Mirkovic, M Igic

This work gives special importance to the treatment of various oral diseases in the elderly population, as otherwise their quality of life would be significantly reduced.

BRIEF COMMUNICATION**379 Survival of Cochlear Spiral Ganglion Neurons Improved *In Vivo* by Anti-miR204 via Tmprss3**

A Peng, Y Li, X Pan, S Ge, Q Wang, S Li, G Zhu, J Liu

The survival of cochlear spiral ganglion neurons was increased in mice with Kanamycin ototoxicity whose cochlea were microinjected with AAV1-anti-miR204, which suggested that anti-miR204 could be a potential therapeutic strategy in sensorineural hearing loss.

VIEWPOINT**383 Micronutrients and Their Role in Oral Cancer: A Review**

A Madiyal, SR Shetty, GS Babu

The incidence of oral cancer increases with the increased association with carcinogens. Antioxidants are hypothesized to be chemopreventive agents for cancers. Micronutrients and antioxidants are required for the production of enzymes that help prevent DNA damage caused by free radicals.

CASE REPORTS**389 Traumatic Dorsal Dislocation of the Four Ulnar Metacarpals**

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