



# WEST INDIAN MEDICAL JOURNAL

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WIMJAD

## ORIGINAL ARTICLES

**191 Prevalence of Self-reported Morbidities, Functional Disabilities and Access to Supportive Aids among the Elderly of Urban Pudukcherry**

S Kalaiselvi, N Ramachandran, D Nair, C Palanivel  
*Developing countries are undergoing the stage of demographic transition. Functional disabilities largely impair the quality of life among the elderly. Efforts toward revamping of primary care services for the benefit of the elderly needs better understanding of the barriers towards access of those with disabilities.*

**197 Radiographic Anatomy and Calcaneal Width Measurements on Tangential View**

Q Wang, Y Zhang, X Wu, Q Meng  
*Tangential calcaneal X-rays were performed on 30 patients with fractured calcaneus and 57 control individuals with normal calcaneus. Results demonstrated that tangential X-ray view of the calcaneus can be used to evaluate its radiographic anatomy and to measure its width.*

**202 A Qualitative Assessment of Trauma Care at Georgetown Public Hospital Corporation in Guyana**

A Bruni, K Kazmi, K Bailey, N Rambaran, M Rambaran, B Cameron, J Pemberton  
*This qualitative study assessed subjective trauma team performance at Georgetown Public Health Corporation. Poor inter-professional communication and teamwork were seen as major barriers to optimal team per-*

*formance, identifying a need for improved inter-professional training and collaboration.*

**208 Insulin Value-added after Taking Glucose vs Blood Glucose Value-added after Sixty minutes Taking Glucose as a Good Index for Estimating beta Cell Function by Non-specific Insulin Assay**

P Yu, Q Li, F Liu, Y Sun, J Zhang  
*To determine the clinical significance of measuring serum true insulin (TI) in overweight and the non-obese with varying degrees of glucose tolerance, we estimated Beta cell function by calculating indices we calculated  $\Delta I60/\Delta G60$ ,  $HOMA-\beta$  and  $M\beta CI$  to estimate beta cell function.*

**214 Oral Signs Unraveling the Diagnosis of HIV**

P Balan, UA Shetty, H Shamsuddin, AR Lakshman, KA Fazil  
*The study discusses the importance of awareness of oral manifestations of HIV, as it may reveal important information regarding the immune status of the individual, and thus, help in the identification of patients harbouring the HIV virus, as well as in predicting the decline in their immune status.*

**220 Biometric Analysis of Cataract Surgery Adult Candidates in Shanghai, China**

C-L Feng, Y-Z Yuan, F Yuan, X-P Ma, C-H Zhang  
*The study involved 1975 cataract patients and showed that the mean corneal curvature was negatively correlated with axial length (AL), while anterior chamber depth and white-to-white were positively correlated with AL.*

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V Persaud 1975–1995

D Raje 1995–1996

WN Gibbs 1996–1999

## 225 Effect of Personality Traits on development of Acute Mountain Sickness in Rapid Entry Population

Q-N Li, Y Liu, S-F Zhao

*We hypothesized that the personality traits, the emotion and stress disturbances induced by the high altitude environment may contribute to the development of acute mountain sickness (AMS). In the current study, young adult subjects who travelled to the plateau from the plain area by air were recruited. The emotional anxiety and personality traits of the participants were investigated by questionnaires, respectively. The correlation of anxiety and personality traits with the development of AMS was analysed.*

## 232 Improving Quality of Practical Teaching with the Reflection Diary Feedback Teaching Method

L Yang, Y Niu, T-C Li, F-X Li, Y-H Hou, S-M Xue

*Reflection diary feedback teaching method has positive impacts, fostering the development of the emotional processing and learning abilities students need for their careers, while helping them develop their initiative, as well as their communication, analytical and problem-solving skills.*

## 238 Evaluation of Ocular Parameters in Children with Type 1 Diabetes Mellitus

OO Olcaysu, A Çayir, E Olcaysu, M Kara, A Erdil

*Diabetes mellitus is one of the most common chronic childhood disease. Diabetic retinopathy, which is not widespread in children with Type 1 diabetes, is one of the leading causes of blindness in developed countries.*

## 244 Exploring Engineering Solutions in the Hope of Improving Dialysis Care

AO Ojo

*This study investigated aspects of dialysis care which are often neglected. It looked at patient comfort and aspects of treatment that patients would like to see improved which were amenable to an engineering solution.*

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Jamaica J\$9500.00

- 250 An Assessment of Dietary and Physical Activity Behaviours of Adolescents in Selected Secondary Schools in Guyana**  
L Stephanas  
*Dietary and physical activity behaviours of Guyanese adolescents' survey revealed that only one-tenth of youth are consuming daily recommended fruit and vegetable intake. Only half of youth participate in vigorous physical activity and less than half in moderate physical activity.*
- 256 The Relationship between Body Composition and Renal Resistive Index in New-diagnosed Hypertensive Patients**  
S Karakan, B Inan  
*The objective of this study was to examine the relationship between body composition and arterial stiffness documented by Doppler-derived renal resistive index (RRI). Independent factors affecting RRI were age, gender, BFP and CRP levels (all p values were < 0.05). Altered renal hemodynamic profile is involved in the long-term renal risk associated with body fat distribution.*
- 262 Diving Injuries Presenting to the Hyperbaric Chamber in Barbados: A Review from 1995–2009**  
A Mansingh, P Singh, W Palmer, V Best,  
*A review of diving injuries presenting to the hyperbaric chamber at the Barbados Defense Force showed the activities that led to injury, types of injury and outcomes.*
- 269 Outcome of Macrosomic Infants at the University Hospital of the West Indies**  
C Richardson, H Trotman  
*Fetal macrosomia remains a difficult obstetric problem with significant maternal, perinatal and neonatal consequences. There needs to be targeted, coordinated perinatal and neonatal measures if these morbidities are to be reduced.*
- 275 Socio-economic Inequality in Professionally Administered Topical Fluoride among Mexican Schoolchildren**  
J Casanova-Rosado, CE Medina-Solís, JF Casanova-Rosado, L Avila-Burgos, AA Vallejos-Sánchez, S Márquez-Rodríguez, ML Márquez-Corona, G Maupomé  
*Periodic dental visits have been recommended for preventive treatment. The experience of having fluoride administered by a dentist in the previous year was low in this sample of Mexican schoolchildren. Additionally, we identify and characterize socio-economic inequalities for this intervention.*
- 282 Lower Extremity Amputations in Barbados: 1999 and 2009 – Has the Situation Changed?**  
BJ Sumpio, S Belgrave, R Jonnalagadda, D Mahler, A Hennis, O Jordan, BE Sumpio  
*Since the seminal publication that established Barbados as the amputation capitol of the world, there has been no follow-up to the amputation rates on the island. Here, we show a 10-year change in the lower extremity amputation rates.*
- 287 Results, Retrospectively Analysed, of the Current Trauma Database in Curacao, Dutch Caribbean**  
J Hollander, MC van der Molen, PR Fa Si Oen, AJ Duits, DR Nellensteijn  
*The objective of this study is to compare incidence-trends of trauma patients. There is a higher incidence of trauma-related injuries, in Curacao compared with countries in the region. This study is a start to set up a new trauma-registry.*
- 294 Moderating Role of Social Support on the Associations between Individual Level Factors and Depressive Symptoms in Young Adults in Guyana and Trinidad and Tobago**  
JL Roopnarine, Y Wang, A Krishnakumar  
*Family support moderated the association between individual level factors and depression in young adults in Guyana and Trinidad and Tobago. Interventions should further focus on the moderating and mediating roles of family support in addressing common mental health problems.*
- 299 Thyrotoxic Hypokalaemic Periodic Paralysis: A Case Series from Trinidad, West Indies**  
M Ramdath, J Teelucksingh, A Ramnath, K Ramcharan, L Conyette, A Ramesar, RP King, S Teelucksingh  
*Thyrotoxic hypokalaemic periodic paralysis has rarely been described among West Indians. We draw attention to seven cases encountered on the island of Trinidad over a 25-year period in diverse ethnicities. All the cases were successfully treated. The global literature on thyrotoxic hypokalaemic periodic paralysis is reviewed from a West Indian perspective with an emphasis on the multi-ethnic presence of this illness in modern-day cosmopolitan populations.*
- 305 Voices of Citizen Journalists on HIV and AIDS: Implications for the Next Generation of Researchers**  
C Barnes, C Archibald  
*In this qualitative context-dependent inquiry, the researchers examined the narratives published in the two major Jamaican daily newspapers as a gauge of the responses to expert testimony on HIV and AIDS and the implications of such evidence.*

**311 Discrepancies between Clinical and Autopsy Diagnoses in the Emergency Department of the University Hospital of the West Indies**

TN Gibson, SE Shirley, EW Williams, A Rhudd, S French, R Hibbert

*The discrepancy rate between the clinical and autopsy cause of death diagnoses was 36.8%. The high frequency of discrepant diagnoses among older age groups, combined with the diagnostic challenges in the Emergency Department related to time and patient co-morbidities, highlight the need to increase the autopsy rate.*

**318 Acute Complicated Sinusitis: Ten Years Experience from the University Hospital of the West Indies (UHWI)**

R Forde, W Mullings, P Brown, EW Williams

*Acute sinusitis has been associated with complications and has been seen most frequently in the adolescent male population. The most common complication is orbital. Surgical techniques have evolved from open sinus approaches to endoscopic approaches. Surgical treatment is indicated for those patients who fail medical management and should consist of an endoscopic approach which may be combined with open approaches if indicated.*

**324 Gentamicin Therapeutic Drug Monitoring: Importance in the Hospital Setting**

T Mason, M Verley, M Gossell-Williams, A Thorbourne, A Walcott-Mitchell, K Hoe, M Lee

*Gentamicin has a propensity to induce nephrotoxicity. This study showed that most of the patients treated with gentamicin experienced some levels of nephrotoxicity and suggests the need for the vigilant monitoring of serum creatinine in such patients in a hospital setting without therapeutic drug monitoring facilities.*

**329 Incidental Cancer in Benign Thyroid Disease: An Experience at the University Hospital of the West Indies**

R Forde, M Brown, A Mitchell

*The prevalence of cancer in multinodular goitre in Jamaica is lower than other prevalences seen world-wide of incidental thyroid cancer. It is seen more commonly in the middle-aged females and are most commonly of the papillary type.*

**335 Conservative Management of the Bilateral Congenital Dislocation of the Knee: A Case Report**

M Christmas

*A case study of bilateral congenital dislocated knees with a review of non-operative management of congenital dislocated knees.*

**340 Exercise Behaviour in Patients with Chronic Diseases**

S Wright, C Gordon, MG Lee

*Exercise behaviour changes in patients with chronic illnesses and exercise self-efficacy were studied. Fifty-one per cent were in the contemplation stage and 29% in*

*maintenance. Sixty-one per cent of the patients were non-adopters and 39% were adopters. Self-efficacy scores in stages four and five were significantly higher than in stage two. In patients with one chronic condition 55% were non-adopters compared to 71% with more than one condition.*

**346 Impacts of Maternal Fish Consumption and Natural Environment on Placental Mercury Levels in Jamaica**

P Ricketts, M Voutchkov, H Fletcher

*Maternal fish consumption, as well as, residence can influence placental mercury concentration. The highest placental mercury was found in areas within bauxitic soil.*

**352 A Novel Therapy for Haemorrhoids: Hand-Sewn Haemorrhoidopexy Using a Modified Anoscope**

J-H Wang, R-S Fei, Z Wang, J-J Lin, J-H Xu, W-B Chen

*An alternative technique of hand-sewn haemorrhoidopexy [HHP] (via a modified anoscope) to conventional surgery therapy, was first explored for treatment of grades III and IV haemorrhoids. Its usage was demonstrated for treating grades III and IV haemorrhoids for 51 patients from February 2008 to February 2011. Shorter wound healing time and lower complication rate were observed for the patients subjected to HHP. These patients also exhibited better tolerance for the operation and incurred significantly lower costs than patients who were treated with other therapies. The data achieved indicated HHP technique was safe, effective and painless for treating patients with grades III and IV or mixed haemorrhoids.*

**357 Treating Children with Spinal Tuberculosis via Debridement with Allograft**

Z Guo, M Yao, J Wang, K Sun, Z Ji

*The mothers' iliac bone was obtained to reconstruct the graft of the children's anterior spinal column, thereby inducing new bone formation without affecting the growth and development of the children. The efficacy of debridement was definite.*

**361 Prevalence and Factors Associated with Intestinal Parasitic Infection among School Children from Jagüey Grande Municipality in Matanzas Province, Cuba**

R Cañete, Y Campos, R Valdes, P Rodriguez

*The study presents a snapshot of intestinal parasitic infections in a Cuban primary school. The high prevalence and the significant association between low personal hygiene practices with the presence of these organisms demonstrate the need to entrench good hygiene habits in the first years of life.*

**CASE REPORTS**

**367 The Co-occurrence of Hypertension and Hyperkalaemia, Gordon's Syndrome: A Case Report**

H Akdam, A Alp, AD Özkan, Y Yeniçerioglu

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