



# WEST INDIAN MEDICAL JOURNAL

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**233 EDITORIAL**

**Advancing Forensic Psychiatry in Jamaica**

CA Sewell, JS Martin, WD Abel

**ORIGINAL ARTICLES**

**235 Investigation of CTLA-4 and CD28 Gene Polymorphisms in Patients with Diabetes Mellitus Type 2 Using PCR-RFLP in a Turkish Population**

E Uzer, F Dilmec, F Akkafa, O Boduroglu, ABP van Kuilenburg

*The CTLA-4 gene c.49A >G and c.-319C >T, and CD28 gene c.534+17T >C polymorphisms did not represent an important risk factor for this disease in a Turkish population.*

**241 The Emergence of *Qnr*-mediated Quinolone Resistance among *Enterobacteriaceae* in Jamaica**

S Stephenson, PD Brown, A Holness, M Wilks

*There is identified *qnr*-mediated quinolone resistance and *qnr* co-determinants among enterobacteriaceae isolates in Jamaica.*

**245 An Extract of Neem Leaves Reduces Anxiety without Causing Motor Side Effects in an Experimental Model**

KA Thaxter, LE Young, RE Young, O Parshad, J Addae  
*Anxiety levels were assessed after treatment with either a steroidal extract of neem leaves or diazepam. An animal model of anxiety, the elevated X maze, provided reliable evidence of anxiolysis without motor deficit in neem treated rats.*

**249 The Antibacterial Activities of Mikanolide and its Derivatives**

PC Facey, PC Peart, RBR Porter

*Phytochemicals from locally available plants demonstrated antibacterial activity.*

**253 An Evaluation of the Diagnostic Utility of Anthropometric and Body Composition cut-off Values in Assessing Elevated Fasting Blood Sugar and Blood Pressure**

SD Nichols, H Crichlow

*In this study, the ability of various anthropometric and body composition measurements in predicting fasting blood sugar and blood pressure measured in a group of public service employees was evaluated. The results suggest similar predictive abilities among the various cut-off values.*

**259 The Epidemiology of Diabetes Mellitus in Jamaica and the Caribbean: A Historical Review**

TS Ferguson, MK Tulloch-Reid, RJ Wilks

*Epidemiological studies over the last 50 years have documented an increase in the prevalence of diabetes mellitus in the Caribbean. Diabetes is associated with a high rate of complications, high economic cost and is a leading cause of mortality in the region.*

*(Continued on inside front cover)*

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#### 265 Prevalence of the Metabolic Syndrome in Jamaican Adults and its Relationship to Income and Education Levels

TS Ferguson, N Younger, MK Tulloch-Reid, TE Forrester, RS Cooper, J Van den Broeck, RJ Wilks

*In this cross-sectional study, the prevalence of the metabolic syndrome in Jamaican adults was 21.1% and 18.4% using the International Diabetes Federation and American Heart Association/National Heart Lung and Blood Institute criteria, respectively. Metabolic syndrome prevalence was associated with socio-economic status in men.*

#### 274 An Assessment of Adolescent Satisfaction with Reproductive Primary Healthcare Services in the Eastern Cape Province, South Africa

FB Mayeye, HA Lewis, OO Oguntibeju

*Participants in this survey were not satisfied with the reproductive health services at the clinics investigated.*

#### 280 Fundamental Issues in Forensic Semen Detection

M Stefanidou, G Alevisopoulos, C Spiliopoulou

*The paper gives an overview of the most important methods and tests used in the identification of spermatozoa or constituents of seminal fluid during investigation of alleged sexual assault.*

#### 284 Preparing Medical Graduates to Practise in a Changing Environment: Complementary/Alternative Medicine in the Medical Undergraduate Curriculum of The University of the West Indies

SR Maharaj

*There is a trend towards the use of complementary/alternative medical care practices by persons in both developed and developing countries. Surveys have shown that patients expect their physicians to provide them with advice on which of these methods might be useful to complement the conventional medical practices. Medical schools at present are not offering enough information to undergraduates in order for them to carry out this important function.*

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**287 Is Free Running Asthma Screening Test Still Useful?**

C Pitsios, SR Del Giacco, C Grigoreas

*Exercise-induced bronchospasm and asthma are often undiagnosed. Three per cent of the children that concluded a Free-Running-Asthma-Screening-Test were newly diagnosed cases of asthma. The outcome of the challenge was much more useful than a questionnaire on asthma symptoms.*

**291 Significance of Mutation in the D-Loop Region in Cervical Cancer**

Y Zhao, J Wang, X Chen, Q Wu

*Mutation in the D-loop region plays a role in the genesis and development in cervical cancer.*

**295 Perinatal Factors in Students Admitted to The University of the West Indies: Data from the Jamaican Perinatal Study**

K Foster-Williams, N Younger, A Brown-Dennis, DE Ashley, A McCaw-Binns, M Samms-Vaughan, W Williams, GR Serjeant

*University students were more likely to come from smaller families with features indicative of better quality of life.*

**300 The Feasibility of Using Magnetic Nanoparticles Modified as Gene Vector**

D Chen, Q Tang, W Xue, X Wang

*Magnetic nanoparticles can be used as novel non-viral gene vector in vitro, which offers a basis for gene delivery in vivo.*

**306 Juvenile Polyposis Syndrome**

DO Whittle, MG Lee, B Hanchard

*Juvenile Polyposis Syndrome should be considered in young patients with colonic symptoms, especially rectal bleeding.*

**309 The Prevalence of *Helicobacter pylori* Infection in Patients Undergoing Upper Gastrointestinal Endoscopy in the Turks and Caicos Islands**

DO Whittle, R Ewing, MG Lee

*H pylori infection was common in patients with gastrointestinal symptoms in the Turks and Caicos. However, the prevalence of infection in patients undergoing endoscopy and peptic ulcer disease is lower than in other reports from the Caribbean.*

**NEPHROLOGY FORUM**

**312 Characteristics, Complications and Outcome of Patients Treated with Automated Peritoneal Dialysis at the Peritoneal Dialysis Unit, University Hospital of the West Indies**

CO Lawal, AK Soyibo, A Frankson, EN Barton

*Infection and cardiovascular diseases were leading causes of morbidity and hence intensive management of cardiovascular risk factors and prompt recognition and treatment of sepsis are recommended.*

**319 Clinicopathological Features of Atypical Nephrotic Syndrome in Jamaican Children**

M Gooden, M Miller, D Shah, AK Soyibo, J Williams, EN Barton

*In this retrospective review of 157 renal biopsies in Jamaican children with nephrotic syndrome between 1985–2008, mesangial proliferative glomerulonephritis predominated. Hypertension, hypocomplementaemia, anaemia and renal failure in childhood nephrotic syndrome predicted more severe nephritis and should prompt nephrological consultation.*

**325 Renal Biopsy Findings in Jamaican Children**

M Miller, M Gooden, D Shah, AK Soyibo, J Williams, EN Barton

*In 270 Jamaican children undergoing renal biopsy, diffuse proliferative glomerulonephritis was the commonest histology observed. Hepatitis B caused 83.3% of membranous nephropathy. The role of infection in the pathogenesis of renal disease in Jamaican children is probably underestimated.*

**330 Mycophenolate Mofetil in Minimal Change Nephrosis**

R Alfred, AK Soyibo

*The use of mycophenolate mofetil in the treatment of steroid resistant minimal change disease has not been extensively studied, particularly in the African Caribbean population. This case highlights its use in steroid resistant nephrotic syndrome in an Afro-Caribbean adolescent.*

**332 The Importance of Bone Biomarkers in the Diagnosis of Renal Osteodystrophy**

YT Pena, AK Soyibo, EN Barton, D McGrowder, TR Clarke

*A combination of serum biochemical markers might predict underlying renal osteodystrophy better than would individual biochemical markers. A predictive model using bone histology and biochemical markers can be developed in the future.*

**CASE REPORT**

- 338 A Case of Lupus-Associated Pancreatitis in Jamaica**  
AK Soyibo, R Alfred

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