



# WEST INDIAN MEDICAL JOURNAL

Vol 64, No. 3: 175 – 314

June, 2015

ISSN 0043-3144 WIMJAD

## ORIGINAL ARTICLES

- 175 Priapism in Homozygous Sickle Cell Disease: A 40-year Study of the Natural History**  
G Serjeant, I Hambleton

*The authors report on the incidence, pattern, natural history and outcome of priapism in 162 male patients with homozygous sickle cell (SS) disease who have been followed from birth for periods up to 40 years.*

- 181 Healthy Eating in Jamaica: The Cost Factor**  
FJ Henry, D Caines, S Eyre

*Commonly consumed foods and all available foods were studied to determine whether healthy foods are more expensive than less healthy alternatives in Jamaica. Healthy foods can be afforded if nutritionally informed choices are made, particularly for economically vulnerable families. Efforts to provide appropriate nutritional information should be expanded and strengthened.*

- 186 The Protective Effect of Epigallocatechin-3-gallate on Paraquat-induced Haemolysis of Erythrocyte Membrane**

K Moses, D Pepple, P Singh

*The effect of epigallocatechin-3-gallate (EGCG) was investigated on paraquat-induced haemolysis of erythrocyte membrane. The results showed that EGCG significantly reduced the haemolysis of erythrocytes exposed to paraquat, which suggests that it may have a protective effect.*

- 189 Effect of L-ornithine L-aspartate on Liver Injury Due to Acute Ethyl Alcohol Intoxication in Rats**  
HM Durgun, A Ozhasenekler, R Dursun, MK Basarali, G Turkcü, M Orak, M Ustundag, C Guloglu

*Acute ethyl alcohol intoxication and related acute alcoholic hepatitis pose serious problems to emergency departments. Reactive oxygen radicals play an important role in ethyl alcohol-induced hepatotoxicity. L-ornithine L-aspartate significantly reduced hepatic injury and decreased oxidative stress causing liver injury.*

- 195 Alcoholic Extract of Lotus Leaves Improves Lipid Profile in Rats with HIV Protease Inhibitor-induced Dyslipidaemia**

QJ Su, ZZ Lu, QY Deng, BM Wei

*Dyslipidaemia was induced in rats and was treated with alcoholic extracts of lotus leaves for four weeks. Total cholesterol and glycerides decreased but did not reach their normal levels.*

- 201 Prevalence of Chronic Kidney Disease among Patients Attending a Specialist Diabetes Clinic in Jamaica**

TS Ferguson, MK Tulloch-Reid, NO Younger-Coleman, RA Wright-Pascoe, MS Boyne, AK Soyibo, RJ Wilks

*This study estimated the prevalence of chronic kidney disease (CKD) among patients of the University*

*(Continued on inside front cover)*

## EDITORIAL BOARD

### Editor-in-Chief

EN Barton

### Associate Editors

D Cohall

DT Gilbert

A Hennis

G Hutchinson

### Assistant Editors

W Abel

MO Castillo-Rangel

T Clarke

T Ferguson

W Francis

J Plummer

PJ Ramphal

AK Soyibo

H Trotman

### Deans

JM Branday

H Fletcher

T Seemungal

R Roberts (Director, UWI Clinical Training Programme)

### Treasurer

E Robinson

T Alleyne, F Bennett, C Christie-Samuels, IW Crandon

N Duncan, Y Fugita, F Henry

J Hospedales (CARPHA), T Jones, GC Lalor (ICENS)

W McLaughlin, MO Owolabi, A Pearson, T Richards

DT Simeon (CARPHA), MF Smikle, Y Zhao

### Editorial Advisory Board

B Bain, J Bennett, M Boyne, FC Brosius III,

G Burkett, W De La Haye, H Daisley,

D Eldemire-Shearer, C Escoffery, LF Ferder

JP Figueroa, J Frederick, B Hanchard, N Kissoon

M Lee, A McCaw-Binns, C Ogunsalu, OO Oguntibeju

A Ojo, H Reid, M Samms-Vaughan, GR Serjeant,

WH Swanson, AAE Verhagen, M Voutchkov, RJ Wilks,

R Young

### Past Editors

JL Stafford 1951–1955

JA Tulloch 1956–1960

D Gore 1961

CP Douglas 1962

D Gore 1963–1966

P Curzen 1967

RA Irvine 1967–1969

TVN Persaud 1970–1972

GAO Alleyne 1973–1975

V Persaud 1975–1995

D Raje 1995–1996

WN Gibbs 1996–1999

*Continued from front cover*

*Hospital of the West Indies Diabetes Clinic in Jamaica and evaluated the proportion of patients at high risk for adverse outcomes. Approximately 86% of patients had CKD and 70% were at high risk for adverse outcomes.*

#### 209 Application of Modified Glomerular Filtration Rate Estimation Equations in Chinese Diabetic Patients with Chronic Kidney Diseases

H Chang, SD Ye

*The Ruijin equation is more applicable in Chinese diabetic and chronic kidney diseases patients than the Cockcroft-Gault and Modification of Diet in Renal Disease formulae.*

#### 213 Evaluation of Nutritional Biochemical Parameters in Haemodialysis Patients over a Ten-year Period

AIQ Alfonso, RF Castillo, FJ Gomez Jimenez, AM Nuñez Negrillo

*This study evaluated the nutritional status of haemodialysis patients by assessing biochemical and anthropometric parameters. The prevalence of malnutrition in haemodialysis patients was evident; however, the results showed that the nutritional deterioration of these patients was mainly reflected in their biochemical parameters rather than in their anthropometric measurements.*

#### 218 Treatment Experience of Severe Abdominal Infection after Orthotopic Liver Transplantation

Y-G Wang, J-S Wu, B Jiang, J-H Wang, C-P Liu, C Peng, B-Z Tian

*Severe abdominal infection after liver transplantation is the most common cause of death in perioperative liver transplantation. Comprehensive treatment, such as active recovery, multiple-organ support, controlled surgical removal of the lesion, and adequate drainage, is key for recovery.*

#### 223 The Male-female Birth Ratio in California and the 1992 April Riots in Los Angeles

V Grech

*Stress induces spontaneous abortions that affect male fetuses more than female fetuses. The April 1992 Los Angeles riots constituted six days of civil unrest. This study showed that male births in California state dipped following this event.*

### BUSINESS INFORMATION

**Copyright:** Material printed in the Journal is covered by copyright and may not be reproduced in whole or in part without the written permission of the Editor. Single photocopies may be made by individuals without obtaining prior permission.

**Microform:** The Journal is available in microform from Bell and Howell Information and Learning.

**Abstracting and Indexing:** The Journal is currently included in major abstracting and indexing services.

**Correspondence** should be addressed to:

**THE EDITOR-IN-CHIEF, MAILING ADDRESS: West Indian Medical Journal, Faculty of Medical Sciences, The University of the West Indies, Kingston 7, Jamaica**

**Webpage:** <http://www.mona.uwi.edu/fms/wimj/>

**E-mail:** [wimj@uwimona.edu.jm](mailto:wimj@uwimona.edu.jm)

**Telephone:** (876) 927-1214 **Fax:** (876) 927-1846

**ANNUAL SUBSCRIPTION:** Overseas US\$175.00

Jamaica J\$9500.00

West Indian Medical Journal

Published by the Faculties of Medical Sciences, The University of the West Indies, Mona, Jamaica,  
St Augustine, Trinidad and Tobago and Cave Hill, Barbados

Continued from inside front cover

**226 Time-dependent Degradation Pattern of Cardiac Troponin T in Cases of Death by Burn**

S Kumar, W Ali, US Singh, AK Verma, S Bhattacharya, A Kumar, R Singh, R Rupani

*We investigated time-dependent alterations in cardiac troponin T associated with fatal burns. In such cases, this will assist in knowing if there were previous scars that might have mimicked a burn and also help to properly evaluate the real cause of death.*

**230 Treatment of Parapelvic Cyst by Internal Drainage Technology Using Ureteroscope and Holmium Laser**

Q Zhao, S Huang, Q Li, L Xu, X Wei, S Huang, S Li, Z Liu

*We explored the efficacy and safety of surgical approaches with holmium laser ureteroscopic internal drainage in the treatment of parapelvic cyst. In 28 cases of operation, 27 cases were successful. Our study shows that the treatment of parapelvic cyst by internal drainage operation using holmium laser and ureteroscopy had very good result with few complications.*

**236 Ascites in Ovarian Carcinoma – Reliability and Limitations of Cytological Analysis**

R Živadinović, A Petrić, D Krtinić, J Stevanović Milosević, S Pop Trajković Dinić

*Peritoneal cytology of ascitic fluid is highly specific but has relatively low sensitivity, particularly in case of endometrioid ovarian carcinoma. In order to increase sensitivity, peritoneal cytology should be combined with monoclonal antibodies and other biochemical and immunohistochemical markers.*

**241 Analysing Biological Rhythms in Fibromyalgia Syndrome**

M Ucar, Ü Sarp, Aİ Gül, N Tanik, A Yetisgin, HO Arik, O Nas, YK Yilmaz

*We evaluated biological rhythm disorders (sleep, functional activities, social participation, eating patterns) in patients with fibromyalgia syndrome (FMS). This study shows an important relationship between rhythm disorders and FMS, so a multidisciplinary approach is needed to treat these patients.*

**245 Estimated Burden of Serious Fungal Infections in Jamaica by Literature Review and Modelling**

HC Gugnani, DW Denning

*It is estimated that over 57 600 people in Jamaica probably suffer from serious fungal infections each year, most related to allergic bronchopulmonary aspergillosis and severe asthma with fungal sensitization, recurrent vulvovaginal candidiasis and AIDS-related opportunistic infections. Endemicity of histoplasmosis is established.*

**REVIEW**

**250 Mini-review: Obesity in Caribbean Youth**

EA Traboulay, OPA Hoyte

*This paper addresses causes and strategies to combat the tsunami of obesity in Caribbean youth and explain how hitherto-overlooked components, such as non-genetic transgenerational effects, genetics, pathogens, and obesogens lead to obesity. We estimated the annual economic obesity burden at 68.5 billion USD.*

**SHORT COMMUNICATION**

**263 Simvastatin Protects Osteoblasts from the Deleterious Effects of the Liquid Milieu of Multiple Myeloma**

R Jitumori, D Fernandes, C Jitumori, GM Favero

*The microenvironment of multiple myeloma (MM), composed of different cells, is influenced by the massive presence of neoplastic plasma cells. Osteoblastic suppression and osteoclast induction is one of the tumour stimuli. Simvastatin protects osteoblasts from the deleterious effects of the liquid milieu of MM.*

**DENTAL FORUM**

**266 Oral Hygiene and Handwashing Practices among Middle School Students in 15 Latin American and Caribbean Countries**

TR McKittrick, KH Jacobsen

*Nationally-representative data from 33 174 middle school students in 15 Latin American and Caribbean countries show a strong relationship between infrequent tooth-brushing and infrequent hand washing.*

**269 Correlation of Radiographic Mental Foramen Position and Occlusion in Three Different Indian Populations**

P Verma, N Bansal, R Khosa, KG Verma, SK Sachdev, N Patwardhan, S Garg

*This study examines the shape, position and symmetry of the mental foramen, its continuity with the inferior dental canal and inter-foramen distance on a digital panoramic view and correlates it with Angle's molar relations in both genders of three Indian subpopulations.*

**CASE REPORTS**

**275 Paroxysmal Complete Atrioventricular Block: A Rare Cause of Syncope in Children**

H Olgun, N Ceviz, T Karagoz

**279 Amlodipine-induced Gingival Hyperplasia – A Case Report and Review**

M Madi, SR Shetty, SG Babu, S Achalli

**283 Functional Outcomes of the Surgery and Rehabilitation in a Challenging Case of Heterotopic Ossification after Encephalitis**

T Ekiz, M Doğan Aslan, S Özbudak Demir, M Altay, N Özgirgin

- 286 Rare Seagull Cooing Murmur from Acute Aortic Dissection**  
J Zhao, Z Cheng, X Quan, Z Zhao
- 288 Repeated *Burkholderia cepacia* Peritonitis in a Patient Undergoing Continuous Ambulatory Peritoneal Dialysis**  
BL Apostolovic, RM Velickovic-Radovanovic, MR Andjelkovic-Apostolovic, TP Cvetkovic, MM Dinic, JD Radivojevic
- 291 A Reduction Grade of Lipodystrophy and Limited Side Effects after HAART Regimen with Raltegravir, Lamivudine, Darunavir and Ritonavir in an HIV-1 Infected Patient after Six Years of Antiretroviral Therapy**  
A Degli Antoni, LE Weimer, V Fragola, A Giacometti, F Sozio
- 294 Tricuspid Atresia 18 Years Post Glenn: Is Fontan Necessary in All Cases?**  
S Williams-Phillips
- 298 Valvar Pulmonary Atresia in Afro-Caribbean Adolescents: Echocardiographic Features**  
S Williams-Phillips
- 303 The Non-recurrent Laryngeal Nerve – A Rare Phenomenon Which Requires Vigilance**  
R Forde, EW Williams
- 305 Parathyroid Carcinoma: A Case Report and Review of the Literature**  
R Forde, A Mitchell, K Duncan, TN Gibson
- LETTERS TO THE EDITOR**
- 309 Extradural Haematoma in Football**  
MON Nnadi, OB Bankole, SO Arigbaju
- 310 The Significance of Evaluating the Variation of Mechanical Microstructure for Hypertrophic Cardiomyopathy Using Diffusion Tensor Magnetic Resonance Imaging**  
Q Fan, Y Wang, F Gao, Y Guo
- 311 Adrenal Cystic Lymphangioma**  
O Bosnali, S Moralioglu, AC Celayir
- 312 Closing the Gap between Preclinical Biologic Development and Clinical Application in Rheumatoid Arthritis**  
W Cai, Y Wang, R Xia, F Gao
- BOOK REVIEW**
- 314 Essential Microbiology for Dentistry – A Book Review**  
A Babu RS