



# WEST INDIAN MEDICAL JOURNAL

Vol 59, No. 2: 119 – 232

March, 2010

ISSN 0043-3144 WIMJAD

## 119 EDITORIAL

### **Haiti: Lessons learnt**

KD Vaughan

## ORIGINAL ARTICLES

### **122 The Hypothesis of an Effective Safe and Novel Radioprotective Agent: Hydrogen-rich Solution**

Liren Qian, Bailong Li, Jianming Cai, Fu Gao

*The explosive hydrogen gas could selectively reduce hydroxyl which plays an important role in irradiation-induced injury. Hydrogen-rich solution may be a novel, safe and effective radioprotector*

### **125 Association between Anthropometric – Hormonal Measurements and Bone Mineral Density in Puberty and Constitutional Delay of Growth and Puberty**

H Doneray, Z Orbak,

*The most important finding was the determination of body composition and hormonal measurement changes in puberty in boys. Oestradiol was the most potent determinant of bone mineral density among pubertal boys.*

### **131 Clinical and Laboratory Features of Youth Onset Type 2 Diabetes in Jamaica**

MK Tulloch-Reid, MS Boyne, MF Smikle, EG Choo-Kang, RH Parkes, RA Wright-Pascoe, EN Barton, RJ Wilks, DE Williams

*Patients from two tertiary referral hospitals were assessed to determine whether Type 2 diabetes mellitus*

*was present in Jamaican diabetic youth. Type 2 diabetes accounted for 22% of cases. Obesity was the most important clinical predictor of Type 2 diabetes.*

### **139 Knowledge, Attitudes and Practices Regarding Dengue Infection in Westmoreland, Jamaica**

F Shuaib, D Todd, D Campbell-Stennett, J Ehiri, PE Jolly

*A knowledge, attitude and practice survey of 188 women attending healthcare clinics in Westmoreland, Jamaica, revealed that most participants had good knowledge and attitudes towards dengue fever. However, these were not translated into practices that could prevent the disease.*

### **147 Knowledge and Practice of Occupational Infection Control among Healthcare Workers in Jamaica**

TM Foster, MG Lee, CD McGaw, MA Frankson

*Healthcare workers at two hospitals in Jamaica were aware of the risk of transmission of infection, however compliance with universal precautions was inadequate. Guidelines are needed for compliance with universal precautions.*

### **153 Prevalence of Needlestick Injuries and other High Risk Exposures Among Healthcare workers in Jamaica**

TM Foster, MG Lee, CD McGaw, MA Frankson

*Needlestick injuries (47%) and other high risk exposures (31%) among physicians and nurses were high in two hospitals in Jamaica. Reporting and post-*  
*(Continued on inside front cover)*

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*Continued from front cover*

*exposure management were inadequate. A comprehensive programme to decrease these occupational hazards and regular surveillance are needed.*

#### 159 Dynamics of Antibiotic Usage in the Intensive Care Unit at the University Hospital of the West Indies

V Chin, HE Harding, I Tennant, D Soogrim, GM Gordon-Strachan, MA Frankson

*A cross-sectional, analytical study of antibiotic usage patterns at the Intensive Care Unit at the University Hospital of the West Indies was conducted on consecutive admissions between July and December 2007. Areas for improvement identified included attention to appropriate prophylactic antibiotic use and duration of courses, and use of de-escalation.*

#### 165 A Survey of Physicians' Knowledge and Attitudes Regarding Antimicrobial Resistance and Antibiotic Prescribing Practices at the University Hospital of the West Indies

I Tennant, A Nicholson, GM Gordon-Strachan, C Thomas, V Chin, MA Didier

*Most physicians considered antibiotic resistance an extremely important problem globally, but less so nationally. Contributory factors were correctly identified, but antibiotic prescribing practice did not incorporate measures to reduce resistance. Hand-washing was not considered to be important in reducing resistance and de-escalation to narrow spectrum antibiotics when appropriate was not a regular practice.*

#### 171 Knowledge and Attitudes of Students at a Caribbean Offshore Medical School Towards Sexually Transmitted Infections and Use of Condoms

RO Orisatoki, OO Oguntibeju

*Knowledge of students on sexually transmitted diseases was high and high risk behaviour was low.*

*Continued on Inside Back Cover*

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

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**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/www.scielo.org>, [www.bireme.br](http://www.bireme.br)

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

**ANNUAL SUBSCRIPTION:** Overseas US\$150.00

Jamaica J\$8,900.00

West Indian Medical Journal

Published by the Faculty of Medical Sciences, The University of the West Indies, Mona, Jamaica,  
St Augustine, Trinidad and Tobago and School of Clinical Medicine and Research, Cave Hill, Barbados

- 177 The Pathology of Breast Cancer in Jamaica: The National Public Health Laboratory Study**  
SE Shirley, PA Sinclair, MA Stennett, G Codrington, R Bhatt, CT Escoffery

*The pathologic features of breast cancer documented at the National Public Health Laboratory in Jamaica are consistent with patient presentation at relatively advanced stages of disease, and highlight the need for urgent public health intervention, particularly the development of a national screening programme.*

- 182 Plyometric Training Improves Power and Agility in Jamaica's National Netball Team**  
S Roopchand-Martin, P Lue-Chin

*This manuscript examines the effect of a plyometric training programme on power and agility in a sample of Jamaica's National Netball Team. The outcomes utilized were the Vertical Jump Test, Standing Broad Jump Test and Illinois Agility Test.*

- 188 The Evidence-based Management of Bilateral Ethmoid Osteomas: Diagnosis, Endoscopic Resection and Review of the Literature**  
A Trinidad, M Shakeel, C Moyes, B Ram

*Paranasal osteomas may present as rhinosinusitis and occasionally cause complications depending on anatomical location. Ethmoidal and fronto-ethmoidal osteomas are readily diagnosed using computed tomography and are increasingly being resected endoscopically. Bilateral ethmoidal osteomas are rare. An evidence-based management plan is presented.*

- 192 Degenerative Disc Disease of the Lumbar Spine on MRI**

W West, KP West, EN Younger, D Cornwall  
*Degenerative Disc Disease of the lumbar spine occurred in older and heavier patients. Gender did not affect the presence or the extent of the disease. However, compared to females, males showed a marginally increased tendency to have degenerative disc disease at L1/2 and L5/S1.*

- 196 Anxiety and Depression in Medical Students Related to Desire for and Expectations from a Medical Career**

N Karaoglu, M Şeker  
*External pressures, desire to become a medical doctor and expectations from medical education have significant effects on anxiety and depression levels of medical students.*

- 203 Factors Associated with Academic Performance of Physical Therapy Students**

CD Gordon, SKP Williams, GA Hudson, J Stewart  
*Despite students meeting the basic entry requirements for the physiotherapy (Diploma) programme, some students did not complete the programme or took more than the minimum time to complete it. Factors contributing to academic performance of these students were therefore explored.*

- 209 Febrile Neutropaenia in Cancer Patients**

M Walwyn, A Nicholson, MG Lee, G Wharfe, MA Frankson  
*Gram-negative organisms are the predominant isolates in febrile neutropaenic episodes in this cohort of patients. Non-neutropaenic patients had an increased mortality with an increase in Acinetobacter infections and multiple infections.*

#### DENTAL FORUM

- 215 A Limited and Useful Approach to Determine Proximal Periodontal Health**

H Develioglu, G Özcan, L Taner, O Özgören  
*There exists an important relationship between resin-bonded fixed partial dentures and papillary blood flow. Although there were no correlations between Laser Doppler Flowmetry (LDF) values and clinical parameters, it can be emphasized, within the limits of the study, that LDF readings have limited diagnostic value, at least when it comes to clinical performance of fixed prosthesis.*

#### CASE REPORTS

- 219 Immunoglobulin Light Chain Amyloidosis Associated with Multiple Myeloma in a Young Patient: A Case Report**

OO Morais, LO Costa, DH Shinzato, G Hans-Filho

- 222 Supraventricular Tachyarrhythmia and Brugada Syndrome: A Case of Atrial Fibrillation and Brugada Syndrome in a Young Patient Without Structural Heart Disease**

RO Escárcega, JC Pérez-Alva, M García-Carrasco

- 226 A Cystic Hepatic Lesion: When to Worry?**

R Maharaj, SV Sakpal, K Deodhar, A Kulkarni, S Arya, M Ramadwar, SV Shrikhande, V Naraynsingh, PJ Shukla

#### LETTERS TO THE EDITOR

- 230 Mathematical Models in Medical Sciences: a Balance in Knowledge**

C Ogunsalu

**231 Ruptured Sinus of Valsalva Complicated by Right and Left Sided Endocarditis, R → L – Shunt and Congestive Cardiac Failure**

S Kadir, H Burgos, HH Hanoman

**231 Necessity of Comprehensive Suicide Prevention Measures among Women in Japan: A Comparison between Japan and France in Age-classified Suicide Rates**

K Inoue, T Fukunaga, Y Okazaki, M Masaki,  
Y Nishimura, A Nishida, K Hagiwara, Y Ono

**232 Apical Balloon Syndrome (TAKO TSUBO STRESS CARDIOMYOPATHY) or Aborted Myocardial Infarction**

H Hanoman