



# WEST INDIAN MEDICAL JOURNAL

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WIMJAD

## ORIGINAL ARTICLES

### 190 Chikungunya Virus Infection-associated Arthralgia in Adult Jamaicans Post-outbreak

O O'Sullivan, T Campbell, A Darby, N Mourillon, J Campbell, T Melbourne, V Green, MD Jackson  
*Chikungunya virus infection-associated arthralgia was determined in adult Jamaicans 8–12 months post-outbreak. Persistent and severe arthralgia occurred in 30.3% and 27.5% of the participants, respectively. Females had greater odds of persistent and severe pain. Severe joint pain was related to pre-existing arthritis.*

### 197 Ten-year Survival Rates for Women of Grand Bahama Island, The Bahamas, Diagnosed with Breast Cancer in 1988–2002

AF Brathwaite, NV Brathwaite  
*The age at diagnosis of breast cancer in women of Grand Bahama Island, The Bahamas, significantly influenced the survival rates, with younger women living longer. Staging and axillary lymph node status influenced survival to a lesser extent. The influence of treatment modalities on survival was not demonstrated, and this might have been due to the small sample size.*

### 206 Barriers to Informal Caregiving of Persons Living with Dementia in Barbados: A Phenomenological Inquiry

CR Brown, MM Murphy  
*This paper qualitatively explored the barriers faced by informal caregivers of persons living with dementia in Barbados.*

### 212 Clinical Audit of Sexual Abuse Referral Forms to the Sexual Assault Follow-up and Evaluation Clinic, Nassau, The Bahamas, among Females Aged 13 to 19 Years

M Nottage, V Darling, J Edwards-Rowlands, D Gallagher, L Stubbs, C Conliffe, C Farquharson, S Pinder-Butler, M Frankson  
*A clinical audit of the quality of sexual abuse referral forms to the Sexual Abuse Follow-up and Evaluation Clinic between 2011 and 2015 demonstrated inadequate documentation.*

### 218 Blood Drive Day-related Factors Affecting University Student Blood Donation in Grenada, West Indies: A Case-control Study

SN Hewitt, LLMcV Messam  
*Electronic and personal advertising, no academic deadlines within a week of the blood drive and large blocks of free time for donating were positively*

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associated with university student blood donation. University student blood donation rates may be increased by scheduling on-campus blood drives around the timetables of specific student groups using personal and/or electronic advertising.

**226 Mutation and Efflux System are Responsible for Ciprofloxacin Resistance in *Klebsiella pneumoniae***

KM Zayyen, A Rastegar-Lari, S Ghafourian, M Taherikalani, N Sadeghifard, FA Jalilian, B Badakhsh, A Hematian, I Pakzad

*The results demonstrated that the main mechanism of ciprofloxacin resistance was via the AcrAB efflux system with a decrease of the level of minimal inhibitory concentration, but the other mechanism including mutation of gyrA and presence of quinolone resistance loci was also considerable.*

**229 Bone Loss During the Acute Stage Following Burn Injury: Is It Local or Systemic?**

PD Analan, B Leblebici, M Adam, Ç Sarıtürk

*The aim of this article was to examine post-burn bone loss and determine whether it was local or diffuse. These injuries caused systemic bone loss. This bone loss could not be correlated with the severity of the burns.*

**233 A Thirteen-year Retrospective Analysis of 179 Odontogenic Tumours in a Nigerian Tertiary Healthcare Facility**

B Fomete, OD Osunde, JO Ogbeifun

*Odontogenic tumours are derived from epithelial and mesenchymal elements that are part of the tooth-forming apparatus. A retrospective study of patients with a histopathologic diagnosis of orofacial tumours was conducted. Odontogenic tumours constituted 179 (15.3%) cases out of a total of 1170 orofacial tumours.*

**238 The Effect of Thymosin Alpha 1 on Severe Acute Pancreatitis in Rats**

ZL Qiu, ZJ Wang, JK Huang, HH Dou, CM Zhen, F Cheng

*The results of this study showed that thymosin alpha 1 could decrease proinflammatory cytokines and reduce pancreas injury and had a protective effect in rats with severe acute pancreatitis (SAP).*

*This provides a new strategy for the clinical treatment of SAP.*

**243 An Improved Classification System for Brain Tumours Using Wavelet Transform and Neural Network**

AS Dhas, M Madheswaran

*Identification and classification of brain tumours accurately from magnetic resonance imaging are difficult. The authors adopted a technique using wavelet transform and neural network to identify and classify the tumour. The developed system produced an accuracy of 93.24%.*

**248 A Comparison of Serum Lead Status among Elderly Osteopaenic Patients, Elderly Osteoporotic Patients and Healthy Controls**

H Moemeni, M Moallem, H Parsian, SR Hosseini, H Noreddini, A Mosapour, H Negahdar, M Alizadeh, ZS Kelagari

*It is proposed that in conditions where the bone turnover rate is high, mobilization of lead from bone to blood will occur. Mobilization of lead from bone to blood in elderly osteopaenic patients and elderly osteoporotic patients was similar to that in healthy controls.*

**254 Immunohistopathological and Biochemical Study of the Effects of Dead Nettle (*Urtica Dioica*) Extract on Preventing Liver Lesions Induced by Experimental Aflatoxicosis in Rats**

S Yildirim, Z Yener

*This paper studied the preventive effects of dead nettle extract on liver lesions that were induced by experimental aflatoxicosis in rats. According to the biochemical and histopathological findings of the study, antioxidant system activity increased and lipid peroxidation and liver enzyme levels decreased in the group that received dead nettle leaf extract. As a result, it could be concluded that dead nettle leaf extract had hepatoprotective effects against aflatoxicosis.*

**262 Plasma Cellular Hypoxia, Mitochondrial Dysfunction, Disease Risk and Prognostic Factors in Type 2 Diabetic Patients in Saudi Arabia**

AA Alduraywish

*This study investigated the level of plasma hypoxia-inducible factor (HIF)-1 $\alpha$  and cytochrome c*

*(CytoC) in correlation with C-reactive protein, dyslipidaemia, insulin resistance, and prognostic factors in Type 2 diabetic patients in Saudi Arabia. Reduced level of HIF-1 $\alpha$  and non-significant increased level of CytoC correlated negatively with these prognostic factors. These results pointed to a possible pathogenetic implication for HIF-1 $\alpha$ .*

#### **CASE REPORTS**

- 274 Potts Anastomosis: Transthoracic Echocardiographic Features – Tetralogy of Fallot, Doubly Committed Sub-arterial Ventricular Septal Defect, Anomalous Left Anterior Descending Coronary Artery Crossing Right Ventricular Outflow Tract**  
S Williams-Phillips
- 279 Syncope: Clinical Presentation of Bronchial Asthma**  
S Williams-Phillips, M Tulloch-Reid
- 283 The Revelatory Journey of Fine-tuning the Diagnosis of an Adult Male on the Autistic Spectrum – Asperger Syndrome/High-functioning Autism with Corollary Diagnoses**  
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- 289 Abdominal Apoplexy after Pulmonary Lobectomy for Lung Cancer**

JH Fu, M Zhao, YR Lin, XD Tian, LX Wang

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O Ilhan, EA Ozer, SA Ozdemir, S Akbay, S Memur, B Kanar, S Sutcuoglu, MM Tatli

- 294 Fibrous Hamartoma of the Chest Wall: A Benign Tumour that Mimics a Malignant Entity**

AA Hamzah, TH Mallhi, AH Khan, AS Adnan, YH Khan

#### **NEW BOOK**

- 297 Stemming the Brain Drain from the Caribbean: Postgraduate Medical Education at The University of the West Indies, Reform and Expansion of the Faculty of Medicine**  
M Ragbeer