



WEST INDIAN MEDICAL JOURNAL

Vol 62, No. 3: 169 – 280

March, 2013

ISSN 0043-3144 WIMJAD

169 EDITORIAL

Possible Economic Gains from Cancer Research

D Stennett, Y White

ORIGINAL ARTICLES

171 Prevalence of Overweight and Obesity among Children Six to Ten Years of Age in the North-East Health Region of Jamaica

BE Blake-Scarlett, N Younger, CA McKenzie, J Van den Broeck, C Powell, S Edwards, SS Win, RJ Wilks
The prevalence of overweight and obesity among primary school children in Jamaica is 10.6% and 7.1%, respectively, with girls having higher rates than boys. Children who attend private and urban-public schools have higher rates than children who attend rural-public schools.

177 *In vitro* and *In vivo* Anti-cancer Effects of *Tillandsia recurvata* (Ball Moss) from Jamaica

HIC Lowe, NJ Toyang, J Bryant

The anti-cancer activity of Tillandsia recurvata was evaluated. The crude extract demonstrated anti-proliferation activity, killing > 50% of the cells at a concentration of 2.5 µg/ml. Kaposi sarcoma tumours were inhibited by 75% compared to control in vivo (p < 0.05).

181 Predicting 24-hour Urinary Sodium Excretion in Afro-Caribbean Barbadians by Comparing Urine Sodium Excretion over Different Durations versus Spot Collection

DH Cohall, T Scantlebury-Manning, C Nakhleh, D Toure, S James, K Hall

This article highlights the investigation of appropriate means of predicting 24-hour urinary sodium excretion in Afro-Caribbeans in Barbados by assessing the correlation of urinary sodium excretion between actual and measured sodium excretion in a 24-hour urine collection, 12-hour (am and pm) and spot (am and pm) urine collections.

186 Evaluation of Paediatric Patients with Protein Losing Enteropathy: A Single Centre Experience

N Urganci, SG Gulec, D Kalyoncu, S Karaman

When proteinuria is not detected in well-appearing children admitted with oedema, protein losing enteropathy must be considered.

190 Predicting 24-hour Urinary Protein Excretion in Afro-Caribbean Barbadians by Comparing Urine Protein Excretion over Different Durations versus Spot Collection

DH Cohall, T Scantlebury-Manning, A Tavernese, S James, K Hall

This article highlights the investigation of appropriate means of predicting 24-hour urinary protein excretion in Afro-Caribbeans in Barbados by assessing the correlation of urinary protein excretion between actual and measured protein excretion in a 24-hour urine collection, 12-hour (am and pm) and spot (am and pm) urine collections.

(Continued on inside front cover)

EDITORIAL BOARD**Chairman***S Ramsewak***Editor-in-Chief***EN Barton***Associate Editors***D Cohall**DT Gilbert**A Hennis**G Hutchinson**T Seemungal***Assistant Editors***W Abel**MO Castillo-Rangel**T Clarke**T Ferguson**J Plummer**PJ Ramphal**AK Soyibo**H Trotman***Deans***JM Brandy**H Fletcher**S Ramsewak**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 (CFNI)**J Hospedales (PAHO), T Jones, GC Lalor (ICENS)**W McLaughlin, MO Owolabi, A Pearson,**DT Simeon (CHRC), MF Smikle, Y Zhao***Editorial Advisory Board***B Bain, B Barnett, J Bennett, V Boodhoo, 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, GR Serjeant, WH Swanston**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***195 Vitamin D Deficiency in Risk Groups Living in Tropical Curaçao***TJM Leenders, FHA van Eijndhoven, E van der Veer, FAJ Musket**Avoiding sun exposure, although living in tropical areas, results in vitamin D deficiency. In our small pilot study, 38% of the people were at risk and had 25(OH)D levels below 50 nmol/L.***201 Vitamin D Deficiency Rickets in Infants Presenting with Hypocalcaemic Convulsions***Y Cesur, SA Yuca, A Kaya, C Yilmaz, A Bay**Ninety-one infants with rickets presented to hospital with hypocalcaemia. Vitamin D deficiency should be considered in infants presenting with hypocalcaemic convulsion.***205 Evaluation of the Efficacy of Pulsed Electromagnetic Therapy in the Treatment of Back Pain: A Randomized Controlled Trial in a Tertiary Hospital in Nigeria***KI Oke, PFA Umebese**This randomized controlled trial was conducted to assess the therapeutic efficacy of a non-pharmacological device, pulsed electromagnetic field (PEMF), in the treatment of back pain. Patients who were treated with PEMF plus medications had a statistically significantly faster pain relief and resumption of active functions when compared with patients who were treated with only standard medications. Pulsed electromagnetic field therapy is beneficial in reducing pain and disability in patients with back pain and should be made part of holistic care for back pain.***210 Comparative Proteomic Analysis of the Nucleus Accumbens during Extinction and Reinstatement of Morphine Dependence***K Feng, H Qiu, Y Gao, Y Fu, L Du, T Qiu, H Meng, Q Luo**The aim of this study was to detect differentially expressed proteins in the nucleus accumbens between the states of extinction and reinstatement of morphine addiction. Significant changes in five proteins were detected between extinction and reinstatement. These proteins are correlated with phosphorylation and the tricarboxylic acid cycle.**Continued on Inside Back Cover***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://myspot.mona.uwi.edu/fms/wimj/>, www.scielo.org

E-mail: 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

216 Diabetic Foot Complications among Patients Attending a Specialist Diabetes Clinic in Jamaica: Prevalence and Associated Factors

TS Ferguson, MK Tulloch-Reid, NOM Younger, RA Wright-Pascoe, MS Boyne, SR McFarlane, DK Francis, RJ Wilks

This study estimated the prevalence of diabetic foot complications among patients of a specialist diabetes clinic in Jamaica and evaluated factors associated with foot complications. Approximately one of every eight patients had a major foot complication (amputation, ulcer or infection). Associated factors were neuropathy, high blood pressure and longer duration of diabetes.

224 Severe Sepsis in the Emergency Department – An Observational Cohort Study from the University Hospital of the West Indies

R Edwards, R Hutson, J Johnson, R Sherwin, G Gordon-Strachan, M Frankson, P Levy

This study sought to describe the incidence, treatment and outcomes of patients with severe sepsis and septic shock at the University Hospital of the West Indies where early goal directed therapy (EGDT) is not yet practised. Sepsis treatment patterns were found to be consistent with “best practice”.

DENTAL FORUM

230 Evaluation of hβD-1 and hβD-2 Levels in Saliva of Patients with Oral Mucosal Diseases

H Kucukkolbasi, S Kucukkolbasi, HF Ayyildiz, R Dursun, H Kara

A chromatographic method was applied to determine the amount of human beta-defensin 1 and 2 (hβD-1 and hβD-2) in human saliva of patients with oral mucosal diseases before and after treatments and compared with controls.

239 Changes in Hyoid Bone Position after Orthodontic Treatment of Patients with Mandibular Deviation

Q Yang, CHL Wang, C Fan, J Chen

Orthodontic treatment influences, by varying degrees, the hyoid position of patients with different vertical skeletal craniofacial patterns of mandibular deviations.

VIEWPOINT

244 Cuba: Healthcare and the Revolution

LA Binns

This paper gives an overview of the delivery and access of healthcare to the Cuban public under the communist regime of the Castro brothers.

250 Medical Tourism in the Caribbean Region: A Call to Consider Environmental Health Equity

R Johnston, VA Crooks

Medical tourism is targeted as an economic growth sector in the Caribbean by medical providers, governments, and international organizations. The development of this industry raises important questions regarding environmental health equity in communities and countries hosting facilities for international patients.

CASE REPORTS

254 Klippel-Trenaunay Syndrome

N Forbes, M Walwyn, G Rao, D Ellis, MG Lee

257 Pyosalpinx and Hydrosalpinx in Virginal Adolescents: Report of Two Cases

S Moralioglu, İO Özen, B Demiroğullari, AC Başaklar

260 Two Women with Cerebral Venous Thrombosis: Oral Contraceptives?

VM dos Santos, LM Andrade, CT Leal, LA de Souza, RLM Lima, AL Nogueira

264 Thymoma Associated with Myasthenia Gravis and Sjögren Syndrome

Y-M Tsai, Y-C Lin, C-H Chen, C Tzao

266 Cystic Echinococcosis: A Disease Mimicking Cancer in a Non-endemic Country: Report of Two Cases

P Cornejo-Juárez, A Espinosa-Altamirano, M Ibarra-del-Río, I Pacheco-Bravo, P Volkow-Fernández

270 *Salmonella enterica* Arthritis in a Patient with Rheumatoid Arthritis Receiving Anti-tumour Necrosis Factor Therapy

M Bubonja-Sonje, D Rubinic, F Anic, S Novak, D Vuckovic, M Abram

273 Truncus Arteriosus: Surviving at 46 Years without Intervention

S Williams-Phillips

277 Anomalous Origin of Left Coronary Artery with Left Anterior Descending Artery Connected to Left Pulmonary Artery from Single Right Coronary Artery

S Williams-Phillips