



WEST INDIAN MEDICAL JOURNAL

Vol 64, No. 2: 55 – 173

March, 2015

ISSN 0043-3144 WIMJAD

ORIGINAL ARTICLES

- 55 **Impact of L-carnitine and Selenium Treatment on Testicular Apoptosis in Rats Exposed to 2.45 GHz Microwave Energy**
M Saygin, S Caliskan, MF Ozguner, N Gumral, S Comlekci, N Karahan
Electromagnetic radiation by wireless device (2.45GHz) induces testicular apoptosis. Effects of supplemental selenium and L-carnitine on testicular apoptosis by 2.45 GHz microwave energy were evaluated.
- 62 **Insulin Control of Blood Glucose and GLUT4 Expression in the Skeletal Muscle of Septic Rats (AO)**
GP Lu, P Cui, Y Cheng, ZJ Lu, LE Zhang, N Kissoon
Insulin increases the expression of GLUT4 mRNA and GLUT4 in the skeletal muscle of septic rats. Blood glucose concentration of 8–10 mmol/L results in more glucose utilization than 6–8 mmol/L in the skeletal muscle of septic rats during insulin therapy.
- 71 **Evaluation of Interleukin-10 Levels in Patients Diagnosed with Chronic Hepatitis**
M Özgüler, HH Akbulut, A Akbulut
Interleukin 10 (IL-10) is a cytokine which has anti-inflammatory characteristics. In this study, we evaluated whether IL-10 levels increase when hepatitis B virus DNA levels increase. High levels of IL-10 in

chronic hepatitis B patients indicate that it may be the cause of ineffective immune response. Decreasing IL-10 levels by using various methods may have important contributions in progression and treatment of the disease.

- 76 **Use of Percutaneous Sonographically Guided Microwave Ablation Therapy to Treat Inoperable Malignant Liver Tumours**
QC Wang, W Cheng, L Zhang, YX Sun, CH Xing
Microwave ablation (MWA) is a technique used to destroy tumours and soft tissues which are considered inoperable. It is also used to treat those patients who are ineligible for surgery. There is considerable efficacy of MWA guided by ultrasound in treating patients with inoperable tumours.
- 81 **A Study of Patients with “Interface Respiratory Failure” Due to Chronic Obstructive Pulmonary Diseases**
Y Wang, J Zhang, J Feng, J Cao, B-Y Chen
The definition of interface respiratory failure is scientific and its width is appropriate. We should avoid progression from “interface respiratory failure” to “real respiratory failure”. Interventions should focus on oxygen therapy, bronchodilators, improving respiratory compliance, cytokines and anti-infective agents, respectively.

(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

W Francis

J Plummer

PJ Ramphal

AK Soyibo

H Trotman

Deans

JM Branday

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

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 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

87 Aminoglycoside Resistance in Clinical Isolates of Gram Negative Bacilli at the University Hospital of the West Indies, Jamaica: Comparison of Two Time Periods

G Reynolds-Campbell, A Nicholson, N Christian, R Hardie, J Cook
Aminoglycosides have been in use at the University Hospital of The West Indies for over 30 years. This report answers the question of their continued usefulness by comparing current resistance rates with previously collected data.

92 Correlation of Left Ventricular Diastolic Function and Left Ventricular Geometry in Patients with Obstructive Sleep Apnoea Syndrome

J Wang, H Zhang, C Wu, J Han, Z Guo, C Jia, L Yang, Y Hao, K Xu, X Liu, J Si

Obstructive sleep apnoea syndrome is an independent risk factor of morbidity and mortality in cardiovascular diseases. In this study, there was significant correlation between the left ventricular diastolic dysfunction and changes in cardiac geometry in patients with obstructive sleep apnoea syndrome.

99 Effects of General-epidural Anaesthesia on Haemodynamics in Patients with Myasthenia Gravis

X-Z Liu, C-W Wei, H-Y Wang, Y-H Ge, J Chen, J Wang, Y Zhang
General-epidural anaesthesia can stabilize perioperative haemodynamics, reduce the consumption of general anaesthesia and simultaneously shorten extubation time, indicating that it is a feasible and ideal anaesthetic method at present.

104 An Examination of the Effects of Leuprolide Acetate Used in the Treatment of Central Precocious Puberty on Bone Mineral Density and 25-Hydroxy Vitamin D

A Kaya, A Cayir, MI Turan, B Ozkan

Gonadotropin-releasing hormone agonists may have an adverse effect on bone health. They may exhibit these effects by impacting on vitamin D levels.

108 Study of Different Involutive Changes in Bone Mineral Density Measured in Ward's Triangle and Trabecular Volume Measured in Iliac Crest in Relation to Age

RF Castillo, RF Gallegos

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

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

Involuntional changes occur in bone mineral density during the process of ageing. Body mass index has a great influence on bone mineral density.

113 Upper Gastrointestinal Bleeding in Children: The Role of *Helicobacter pylori* Infection and Non-steroidal Anti-inflammatory Drug Use

M Usta, N Urganci

Helicobacter pylori infection and non-steroidal anti-inflammatory drug usage are frequent in children. They are considered risk factors for gastrointestinal bleeding. Ibuprofen and acetylsalicylic acid intake were found to be significant in the aetiology of upper gastrointestinal bleeding. *Helicobacter pylori* was not found to be significant.

117 Effect of Submaximal Warm-up Exercise on Exercise-induced Asthma in African School Children

BF Mtshali, K Mokwena, O Oguntibeju

This study reports the effect of warm-up exercise on exercise-induced asthma (EIA) and highlights the need to screen school children for EIA. There was a high prevalence of EIA among the school children in this study. Exercise after warm-up was significant in reducing EIA.

126 Blunt Trauma in Paediatric Patients – Experience from a Small Centre

I Djordjevic, A Slavkovic, Z Marjanovic, D Zivanovic

This study sought to determine the incidence, aetiology, grades of abdominal organ injuries, diagnosis, management and outcome of blunt abdominal trauma in a paediatric population. Conservative treatment was appropriate for all stable patients with blunt abdominal trauma regardless of organ injury grade. The choice of non-operative treatment should be based predominantly on physiological response.

131 Emergency Department Deaths in a Nigerian University Hospital: Deaths Too Many

A Rukewe, A Fatiregun, CA Okolo, K Ojifinni, O Akinola, MC Nweke

The emergency department operates on a 24-hour basis for the acute care of patients without prior appointment and who require timely intervention for time-sensitive illnesses and injuries. This audit of deaths is used as a measure of the quality of care.

135 Previously Activated Psoralen: A Possible Novel Format of Psoralen Used in the Treatment of Graft-versus-host Disease

X Hu, L Qian, X Chen, J Shen

Psoralen was utilized in the treatment of graft-versus-host disease, in a complicated and expensive process known as extracorporeal photochemotherapy. We hypothesized that previously activated psoralen may be a novel treatment for GVHD and is much easier and economical to operate.

138 Knowledge of and Attitudes toward Medical Professionalism among Students and Junior Doctors in Trinidad and Tobago

D Peters, SS Ramsewak, FF Youssef

Medical students and junior doctors demonstrated limited knowledge about medical professionalism but good attitudes toward this trait; however, attitude scores declined over time. This may signal receptivity toward more formal training within this area.

CASE REPORTS

145 Early Risk Stratification with Dipyridamole Stress Echo in a Patient with Intermediate Lesion in the Right Coronary Artery, 24 Hours after Percutaneous Coronary Intervention

S Carmargo, RD Rampersad

147 External Iliac Arterial Obstruction Caused by Satinsky Atrauma Forceps in Renal Transplantation

D Yang, Y Chang, K Wang, C Lin, P Zhang, Z Gao, S Yu

151 The Hidden Dangers of Beaches: Cardiorespiratory Arrest Induced by Thermal Shock

HM Café, S Santos, V Pereira, S Chaves, P Faria, M Câmara, J Nóbrega

154 A Rare Cause of Haemorrhage in the Upper Gastrointestinal System: Bochdalek Hernia

MN Cevizci, G Erdemir, A Cayir

157 Ovarian Dermoid Cyst Causing Distal Ureteral Obstruction

WD Aiken, RG Mayhew, S Mitchell, M Stennett, P Johnson

160 Regression of Acanthosis Nigricans with the Addition of Sitagliptin and Pioglitazone

EM Adderley-Rolle, S Peter

162 Administration of Flumazenil in a Patient with Acute Abamectin Intoxication: Case Report and Review of the Literature

B Sun, L Jia, S Nie

LETTERS TO THE EDITOR

165 Lactic Acidosis during Entecavir Antiviral Treatment in a Patient with Hepatitis B Virus-related Decompensated Cirrhosis

H Mao, T Kang

166 A Bullous Pilomatricoma Developed after Hepatitis A Vaccination

B Tas, E Tas, M Sar

167 Can Isotretinoin Induce Articular Symptoms in SAPHO Syndrome?

A Karatas Togrul, MT Yildizgoren, OM Koryurek,
T Ekiz

168 Toxoplasma Chorioretinitis Subsequent to Anti-tumour Necrosis Factor Alpha Treatment in a Patient with Ankylosing Spondylitis

I Batmaz, F Turkçu

169 Intracranial Subdural Haematoma after Thoracic Epidural without Signs of Dural Puncture

C Staikou, E Stamatakis, K Spengos, A Fassoulaki

171 Rhabdomyolysis and Dengue Fever: Is This More Common Than We Think?

T Sargeant, TS Ferguson

172 Parameniscal Cyst – A Rare Cause of Popliteal Artery Compression: Treatment with Ultrasound-guided Decompression

R Botchu, A Shah, G Jakanani, CN Esler, WJ Rennie