



WEST INDIAN MEDICAL JOURNAL

Vol 66, No. 1: 1 – 190

Issue 1, 2017

ISSN 0799-5199

WIMJAD

EDITORIAL

1 **Hypertension Control: The Caribbean Needs Intervention Studies to Learn How to Do Better**

JP Figueroa, MA Harris, JP Duncan, MK Tulloch-Reid
Prevalence of hypertension is high in the Caribbean while control of hypertension is low. Intervention trials are needed to establish low cost, sustainable approaches that work in this region.

SPECIAL ARTICLES

4 **Rapid Diagnosis of Dengue Outbreaks in Resource Limited Facilities**

ID Khan, AK Sahni

The study evaluated a combined antigen-antibody based test for rapid, sensitive and specific diagnostic methodology comparable to polymerase chain reaction. The approach was found to be highly sensitive, specific, user-friendly, compact, frugal and thus suitable for use in dengue outbreaks, field conditions and as bed-side diagnostic tests, for confirmation of dengue outbreaks in resource limited facilities.

10. **Trends of Microcephaly and Severe Arthrogryposis in Three Urban Hospitals following the Zika, Chikungunya and Dengue Fever Epidemics of 2016 in Jamaica**

T James-Powell, Y Brown, CDC Christie,
R Melbourne-Chambers, JT Moore, O Morgan,
B Butler, K Swaby, A Garbutt, J Anzinger, RB Pierre,
A Onyonyor, L Bryan, PM Palmer, P Mitchell,
P. Johnson, K Bishop, JR Jaggon, W Ee La Haye

Newborns with the characteristics of congenital syndrome associated with Zika virus (CSAZ) are being born in urban hospitals after the 2016 Zika Virus epidemic in Jamaica. Phenotypic features include microcephaly, craniofacial disproportion, neuro-imaging and neuro-pathological findings and arthrogryposis. A trend towards babies being delivered with small head circumferences, but not yet in the range of microcephaly and others with normal head sizes who were born to women who were symptomatic in pregnancy is also being observed. While, most babies with probable CSAZ are being born to asymptomatic women who did not report any symptoms related to arbovirus illness in pregnancy. Diagnosis is challenged by serological cross-reactivity between circulating flaviviruses. Team management is multidisciplinary to maximize the neuro-developmental potential of this vulnerable patient population.

20 **Exploring Exposure and Symptomatic Differences of Chikungunya Virus in the Adult Population of Grenada**

SL Busch, S Bidaisee

Primary data were collected to examine symptomatic differences by age group and to assess differences between those exposed and unexposed to Chikungunya virus.

EDITORIAL BOARD

Chairman

W Abel

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

A Levy

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

ORIGINAL ARTICLES

25 The Benefit of the Reperfusion Procedure after Renal Ischaemia in Rabbits Being Initiated with Distilled Water

C Ozturk, MI Turan, IS Turan, E Sener, MA Gul

This was a biochemical and histopathological investigation of the effect of distilled water on oxidative injury induced with ischaemia/reperfusion in rabbit kidneys. This study indicates that the use of distilled water can be beneficial in protecting against injury caused in the kidneys by the ischaemia/reperfusion procedure applied in surgical interventions.

31 Application of Glisson Pedicle Transection Hepatectomy in the Anatomic Hepatic Resection

B-Q Wu, Y Jiang, F Zhu, D-L Sun

This study investigated the application of Glisson pedicle transection hepatectomy in the anatomic hepatic resection. The results showed that Glisson pedicle transection hepatectomy had advantages of embodying regional hilus hepatis blocking and avoiding cumbersome anatomy of hilus hepatis vessels.

36 Influence of Red Blood Cell Distribution Width on Long-term Prognosis of Percutaneous Coronary Intervention for Patients with Non-ST Segment Elevation Acute Coronary Syndrome

X-M Liu, C-S Ma, X-H Liu, J-Z Dong, X Du, Y Zhang, Q Lv, J-P Kang

This study demonstrated that high red blood cell distribution width in postoperative percutaneous coronary intervention was an independent predictor factor influencing mortality.

41 Analysis of the Prevalence and Risk Factors of Gestational Diabetes Mellitus Using Novel Diagnostic Criteria

L Li, H Jiang, Z Chen, P Liu, Y Liu, Z Sun

The prevalence rate of GDM in China under the new diagnostic criteria was determined. In this study, these new diagnostic criteria were used to survey the prevalence of GDM and analyse the risk factors to determine the appropriate intervention treatment for GDM

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

- 46 The Incidence and Characteristics of Chronic Post-operative Groin Pain after Inguinal Hernia Repair with Different Types of Prolene Mesh**
D Grebić, A-M Tomašić, L Valenčić, N Trbojević, H Grbas
This study showed that inguinal plasty by using small-pored mesh increases the incidence of chronic postoperative groin pain.
- 50 Medical Causes of Death among the Elderly in a Tertiary Hospital, South East Nigeria**
EB Arodiwe, SC Nwokediuko, SO Ike, II Ulasi, CK Ijoma
We reviewed the causes of death among the elderly aged 60 years and above. Cerebrovascular accident, chronic kidney disease, and diabetic complications were the most common causes of death among men, while cerebrovascular accident, heart failure from especially hypertensive heart disease and chronic kidney disease were the most common causes of death among women.
- 56 Determination of Antimicrobial Resistance and Resistant Genes in Acinetobacter Baumannii from Human Clinical Samples**
H Momtaz, F Khamesipour, M Tavakol, B Awodile
Detection of Acinetobacter from different samples suggests either an on-going infection or colonization of organ sources with A. baumannii. Resistance was observed in all antibiotics tested in different proportion and the organism was found to carry different resistant genes to different class of antibiotics, thus supporting multi-drug resistant characteristic of A baumannii. Multidrug resistant Acinetobacter infections are posing an increasing threat to the population in these communities. Carbapenems provide an effective option against infections caused by resistant A baumannii.
- 65 A Combined Cross-sectional and Longitudinal Study of Predicting Metabolic Syndrome and Cardiovascular Disease by Using Haemoglobin in the Elderly**
T-H Chao, Y-H Hu, P-C Liang, S-W Kuo, D-A Wu
Metabolic syndrome (MetS) has an important implication from a preventive medicine perspective, as early recognition and intervention will reduce associated mortality and morbidity. To better identify patients at risk for developing MetS and cardiovascular disease, we conducted a combined cross-sectional and longitudinal study to shed light on the elevated haemoglobin (Hb) levels in the elderly. Haemoglobin is associated with MetS. Elevated Hb with a cut-off value of 14.6 and 13.7 for males and females respectively; can potentially be used as a marker to stratify the risks of developing MetS for both genders and cardiovascular disease in the female population.
- 72 Efficacy of Endobronchial Ultrasound-guided Trans-bronchial Needle Aspiration in the Diagnosis of Thoracic Sarcoidosis**
H Zhao, Z Zhou, Y Li, X Sui, X Li, K Chen, J Wang
We evaluated retrospective data of 35 patients who received endobronchial ultrasound-guided trans-bronchial needle aspiration (EBUS-TBNA) and found that EBUS-TBNA was a safe and effective procedure for the diagnosis of stage I and II thoracic sarcoidosis.
- 78 Correlation between Expression of Ki67 with Her-2 and p53 Tumour Markers in Breast Cancer Patients**
R Sheikhpour, F Poorhosseini
In a study conducted between 2012 and 2014, 84 breast cancer patients were examined and after surgery, tumours identified were stained with antibody. The result revealed that breast cancer progression is often associated with alterations in expressions of Ki67, P53 and Her-2 markers.
- 83 Analysis of the Menstrual Cycle Variabilities of the Human Epididymis Protein 4**
T Nikolova, R Zidadinovic, N Nikolova, N Evtimovska, B Pavlovski, V Tofiloska
HE4 is an ovarian tumour marker that showed no significant difference in serum levels, if tested in follicular or luteal phase of the menstrual cycle in patients with benign ovarian tumours.
- 88 Risk Factors for Low Birth Weight in South West Trinidad: A Case-Control Study**
NC Roopnarine, RG Maharaj
A case-controlled study revealed that contributors to low birth weight were maternal age, low booking maternal weight, and a low weight gain. Higher birth weight was predicted by early and adequate number of antenatal visits, male gender and vaginal delivery.
- 95 Risk Factors of Low Back Pain in Adults Attending a Tertiary Hospital in Uyo, Nigeria**
AC Jiman, EA Etukumana
Low back pain is a common musculoskeletal disorder. The study was aimed at identifying sociodemographic and lifestyle risk factors for low back pain in adults attending the General Outpatient Clinic of the University of Uyo Teaching Hospital, Uyo, Nigeria. An active age-group, low educational status, being married, rural residence, alcohol consumption, cigarette smoking and a high BMI were associated with low back pain.
- 100 Adult Epistaxis, Epidemiology and Management at the University Hospital of The West Indies**
R Forde, R Cargill, A Batchelor, EW Williams
Epistaxis is stated as one of the most common otolaryngology emergencies. Minor epistaxis originates from the anterior septum and is secondary to nose picking in children and dessication of the mucosa in adults from dry air.

Major epistaxis lacks a precise definition but is characterised as being difficult for patients to control which results in a visit to the emergency department. There is a high prevalence of elevated blood pressure readings and hypertension among our patients with epistaxis. Most cases of epistaxis can be managed successfully with non-surgical treatment.

105 The Scaphomastoid Suture as an Alternative Surgical Technique for Prominent Ear Deformity

E Sari

Prominent ear is a common disorder and can be corrected by several methods. Scaphomastoid suture which is an alternative method for prominent ear treatment is described in this report. This safe, quick, and simple method helps to obtain natural ear position or profile.

111 Opinions of Turkish Forensic Medicine Specialists about Concept of Death in Turkey

H Dokgoz, M Yilmaz, N Turkmen, E Ozer, MA Sungur, R Yilmaz

This investigation was performed to determine opinions of forensic medicine specialists about death. This study revealed that they demonstrate a lower level of death anxiety. They demonstrated a moderate level of avoidance attitude, while they manifested depressive mood towards death.

119 Application of an Acellular Dermal Matrix Patch in Infant and Neonatal Abdominal Wall Reconstruction

L-Y Wang, Y-Q Dong, P-J Zhang, Y-X Gong, F Liu, H-Z Niu, C-Y Liu

An acellular dermal matrix ADM biological patch was used to treat infant and neonatal giant omphalocele and other large abdominal wall defects. Large abdominal wall defects in neonates and infants can be reconstructed by ADM patches with good results.

124 Investigation of the Association of Interleukin-21 and Macroprolactin Levels with Anti-thyroid Antibodies in Patients with Hashimoto Thyroiditis

S Belli, G Ercan, T Saraç, Y Sertbas, MF Oktay, A Çelik, M Küçükyılmaz

Hashimoto thyroiditis is part of the spectrum of autoimmune thyroid diseases. Our results showed that neither macroprolactin nor prolactin levels has any relationship with anti-thyroid antibodies. Interleukin-21 levels of the control group were higher than in the study group.

128 Risk Factors and Prevention of Paediatric Burns in Jamaica

MV Vincent, SE Dundas-Byles, ND Duncan

Burn injuries are a leading cause of paediatric admissions worldwide, with the majority of cases being preventable. This study analyses the underlying causes of paediatric burn injuries in Jamaican children in an effort to establish local preventive measures.

132 Condom Use and HIV Status: A Study of Sex-workers Engaged with the Jamaican AIDS Support for Life

H Budhwani, S Newton, KR Hearld, K Levermore

Among Jamaican sex-workers, condom use is consistently lower with regular partners than with outside partners. By guiding prevention efforts to focus on condom use within long-term relationships, there exists an opportunity to ameliorate the rate of HIV transmission among sex-workers, clients and partners.

137 Levofloxacin-based Triple Therapy for Eradicating Helicobacter Pylori and Effect of its Drug Concentration

Y-M Hu, L-L Luo, X-P Hu, J-M Xu, L Zhang

This study aims to compare the curative effect of the seven and ten-day course treatments with levofloxacin-based triple regimen as initial treatment for Helicobacter (Hp) infection. The effect of the local levofloxacin concentration in the gastric mucosa on the eradication rate of Hp was observed.

141 Severity and Outcomes of Afro-Caribbean Patients Diagnosed with Community Acquired Acute Kidney Injury at an Institution in Jamaica

KK Hoe, EN Barton, AK Soyibo, J Chávez-Iñiguez, G Garcia-Garcia

There is limited data on Community Acquired Acute Kidney Injury (CA-AKI) in low/middle income countries. Although the incidence of Community Acquired AKI is much higher than Hospital Acquired Acute kidney injury, most previous studies on AKI mainly focussed on the latter one. A retrospective prevalence study was conducted for six months at the University Hospital of the West Indies, Mona, Jamaica to find out the prevalence, severity and outcomes of Community Acquired Acute Kidney Injury (CA-AKI). The study demonstrated the prevalence of different AKI stages and its relationship to the contributory factors. It also highlighted the impact of severity on the renal outcomes.

150 Cigarette Smoking Increases Pregnancy-associated Plasma Protein-A in Men

A Coskun, I Bulut, M Serteser, A Eren, ZF Ozseker, Ç Çuhadaroğlu, FB Aksungar, A Özpınar, Ö Can, Hİ Yakar, İ Ünsal

Elevation of pregnancy-associated plasma protein-A (PAPP-A), is considered as an independent risk factor for acute coronary syndrome (ACS). We found significantly high PAPP-A level in the serum of male smokers and this may indicate a higher risk for ACS among these men.

154 The Emergency Contraceptive Pill: Knowledge, Attitudes and Practices of Women in Barbados

A Holder, OP Adams

Many women were at risk for an unplanned pregnancy. Awareness and use of the emergency contraceptive pill, however, is low with 43% of women 18 to 44 years of age aware of the method and only 14% had used it.

DENTAL FORUM

159 Treatment Needs for Dental Caries and Restorative Care Index on the Permanent Dentition of Nicaraguan Children

MS Herrera, CE Medina-Solís, L Avila-Burgos, NL Robles-Bermeo, E Lara-Carrillo, SE Lucas-Rincón, ML Márquez-Corona, JJ Villalobos-Rodelo
Oral health studies in Nicaragua are sparse. We determined the patterns of treatment needs for dental caries and restorative care index on the permanent dentition of Nicaraguan children. High treatment needs for dental caries and little experience of restorative care was observed. The indices were moderated by socio-economic variables.

CASE REPORTS

165 Acute Ischaemic Hepatitis Secondary to Acute Portal System Thrombosis Triggered by Diabetic Ketoacidosis: Rare Presentation of Acute Ischaemic Hepatitis

E Tas, S Atlanoğlu, KT Onbasi, B Tas, AO Harmanci

168 Speed's Procedure Used to Treat Chronic Elbow Dislocation

DK Thomas

171 Quetiapine-Related Rabbit Syndrome in a Patient with Bipolar Depression and Treated with Olanzapine-Fluoxetine Combination

H Belli, M Akbudak, ZE Bal

173 IgG4 Related Disease: The Role of the Surgeon through a Report of a Case

EI Mantonakis, DN Moris, DF Diamantis, AM Pazaiti, AE Papalampros

178 Acute Colonic Pseudo-obstruction Caused by Acute Gastroenteritis: A Case Report

Q Niu, K Liang, C Zhang

180 Long-term Complications of Posterior Chamber Phakic Refractive Lenses: Case Report and Literature Review

X-P Chen, F Yuan, Y-Z Yuan, Q-L He

LETTERS TO THE EDITOR

185 The Novel Use of Endoscopy via a Cervical Oesophago-Cutaneous Fistula for Removal of a Dislodged Stent in a Case of Boerhaave's Syndrome

B Mourad, V Ramoutar, B John, J Munoz

187 Bilateral Sacroiliitis Induced by Systemic Isotretinoin Treatment

MT Yildizgören, T Ekiz, A Karatas Toğral

189 Congenital Unilateral Infiltrating Facial Lipomatosis

SV Kashikar