



# WEST INDIAN MEDICAL JOURNAL

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## 601 EDITORIAL

### Ward-rounds: Role in Clinical Teaching and Learning in Contemporary Medicine

B Bassaw, V Naraynsingh

## ORIGINAL ARTICLES

### 604 Association of the *KCNJ11* Variant E23K with Type 2 Diabetes in Indo-Trinidadians

LG Boodram, K Miyake, MG Hayes, GI Bell, BN Cockburn

Research has implicated Kir 6.2 (*KCNJ11*) as a diabetes susceptibility gene. Positive risk correlation has been detected in European and Asian populations. A subset of Trinidadians was screened, revealing novel variants in this gene and positive disease association in Indo-Trinidadians.

### 608 *Cassia alata* Leaf Extract Induces Cytotoxicity in A549 Lung Cancer Cells via a Mechanism that is Caspase 8 Dependent

A Levy, A Lewis

The cytotoxic effect of a hexane extract of *Cassia alata* (*C. alata*) leaves in parental and Caspase 8, 3 and 9 negative A549 lung cancer cells was evaluated after a 24-hour treatment period. *C. alata* extract was cytotoxic in parental and caspase-9 negative, but not caspase 3 and 8 negative A549 cells. The  $IC_{50}$  values were 143  $\mu\text{g/ml}$  and 145  $\mu\text{g/ml}$  in parental and caspase 9 negative A549 cells respectively. The flavanoid kaempferol was identified as a constituent of *C. alata* leaf extract. These results suggest a cytotoxic effect of *C. alata* that is dependent on caspase 8.

### 615 Anti-inflammatory Activities of *Cassia alata* Leaf Extract in Complete Freund's Adjuvant Arthritis in Rats

A Lewis, A Levy

The anti-inflammatory effects of *Cassia alata* leaf extract were investigated on complete Freund's adjuvant induced arthritic rats. The extract from the leaves was able to significantly reduce the swelling observed in the knee joint. It was also able to effectively protect the articular cartilage from degradation as well as limit the number of differential leukocytes entering the synovial cavity during inflammation. *Cassia alata* possesses potent anti-inflammatory effects and should undergo further investigations of these properties.

### 622 The Anatomical Basis of the Medial Sural Artery Perforator Flaps

FM Altaf

The medial sural artery perforator flap has at least one or two perforators with an average size of 8.2 cm  $\times$  13.3 cm. Elevation of the flap will not affect the vascularity of the gastrocnemius muscle

### 628 Long-term Effects of Chronic Achilles Tendon Rupture Treatment, Using Reconstruction with Peroneus Brevis Transfer, on Sports Activities

T Kosaka, K Yamamoto

This study reports long-term effects of chronic Achilles tendon rupture treatment, using reconstruction with

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*peroneus brevis transfer, on sports activities based on an approximate 10-year follow-up study.*

**636 Open Abdominal Aortic Aneurysm Repair in the Era of Endovascular Repair**

P-A Leake, TN Hamilton-Johnson, M Harry, G Gordon-Strachan, JM Plummer, MS Newnham

*Despite improved outcomes being demonstrated with emerging technologies and in specialized centres, this study demonstrates that the open approach to abdominal aortic aneurysm repair remains a safe treatment option in an environment where advanced resources may not be accessible.*

**641 Operative Hysteroscopy in a Jamaican Cohort**

V DaCosta, S Wynter, J Harriot, L Christie, E Berry, S Frederick-Johnston, J Frederick

*The main indications for operative hysteroscopy at the Hugh Wynter Fertility Management Unit were submucosal fibroids (50%), intra-uterine synechiae (26%), and removal of an intrauterine contraceptive device (11%). The procedure was successful in approximately 98% of cases.*

**647 Left Ventricular Posterior Wall Thickness is an Independent Risk Factor for Paroxysmal Atrial Fibrillation**

HF Xu, YM He, YX Qian, X Zhao, X Li, XJ Yang

*The authors have hypothesized that left ventricular posterior wall thickness is an independent risk factor for paroxysmal atrial fibrillation. This study offers novel information therapeutically beyond that provided by traditional clinical atrial fibrillation risk factors.*

**653 Clinical Utility of Transoesophageal Echocardiography in Low Resource Environments: The Jamaican Experience**

EC Madu, MK Tulloch-Reid, DS Baugh, E Tulloch-Reid, C Potu

*Transoesophageal echocardiography is a useful and safe procedure in the evaluation and management of simple and complex cardiovascular diseases. This technique can play an integral role in improving the quality of care and the management of patients with cardiovascular diseases.*

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**658 Correlation of Brain Natriuretic Peptide and Microalbuminuria in Patients with Heart Failure**

T Peng, H Gao, L Shen, F Xu, X Yang

*This present study indicated that the plasma levels of NT-proBNP and MAU increased synchronously in pace with the aggravation of heart failure, and there was a positive correlation between MAU and NT-proBNP. To some extent, monitoring MAU might replace monitoring NT-proBNP in patients with heart failure.*

**662 Seroprevalence of *Helicobacter pylori* Infection in Adults in the Bahamas**

FP Carter, T Frankson, J Pintard, B Edgecombe

*Helicobacter pylori* infection is a common chronic infection in the Caribbean. This study reports the seroprevalence of *H pylori* in a healthy adult population in the Bahamas.

**666 The Hypothesis of an Effective Strategy for Resistance of Hepatocellular Carcinoma to Therapy-autophagy**

B Liu, A Mao, D Liu

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C Potu, H Mohammed, MK Tulloch-Reid

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