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WIMJAD

ORIGINAL ARTICLES

- 98 **The Application Methods of Mitogen-activated Protein Kinase Signal Pathway Inhibitors SP600125 and SB203580 in Long-term *in Vivo* Experiments**

H Cai, Q Chen, Y Liu, H Xie, Q Lu, X Chen

The intravenous injection of mitogen-activated protein kinase inhibitors SP600125 and SB203580 for four weeks significantly reduced the phosphorylation levels of c-Jun N-terminal kinase and p38 in vivo.

- 105 **Meropenem Efflux in *Pseudomonas aeruginosa* at a Tertiary Care Hospital in Jamaica**

C Thoms-Rodriguez, T Mazzulli, N Christian, BM Willey, AM Nicholson

*This article examined efflux as a mechanism of carbapenem resistance in *Pseudomonas aeruginosa* isolates at a hospital in Jamaica. The study detected that 80% of the isolates tested had efflux as a mechanism of resistance to meropenem.*

- 110 **Secondary Metabolites from *Streptomyces* sp CSDX076 for the First Time**

SY Qian, MY Shao, YZ Li, GG Cheng, CW Yue

*This study investigated the secondary metabolites from the cultures of *Streptomyces* sp CSDX076.*

*Consequently, four compounds were obtained from *Streptomyces* sp CSDX076 for the first time and identified as aurantiamide benzoate, deoxytryptiquivaline, 2-acetyl-3,5-dihydroxyl-benzene acetic acid, and 2-acetyl-3,5-dihydroxyl-benzene ester.*

- 114 **Availability and Use of Contraceptive Implants in Jamaica: Results of a Review of Medical Records and a Survey of Reproductive Healthcare Providers in Six Public Health Centres**

MS Chevalier, CC King, S Jarrett, S Sutherland, SM Hill, AP Kourtis

Sub-dermal implants have few insertion complications and side-effects and are effective, but they are underutilized in Jamaica. Enhanced provider training and import in Jamaica may increase availability and utilization among women, leading to a long-term reduction in unintended pregnancy rates.

- 122 **Screening for Non-communicable Diseases at a Walk-in Clinic in Trinidad and Tobago: A Time-motion Cross-sectional Study and Net Present Value Analysis**

RG Maharaj, S Teelucksingh, H Chow, L De Freitas

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A cross-sectional, six-station screening process for non-communicable diseases was carried out at a walk-in clinic in Trinidad and Tobago: invitation and consent, history, biometrics, blood levels and urinalysis (laboratory), basic examinations and an exit interview. This process was found to be feasible and provided monetary value in three of four scenarios.

131 Factors Affecting Blood Pressure Control among Hypertensive Patients Attending Primary Healthcare Facilities in Western Jamaica

VH Waugh-Brown

A descriptive, cross-sectional study of patients diagnosed with primary hypertension was carried out to identify patient-related factors that affected blood pressure control and the significance or implications for programme planning.

137 Burden of Paediatric Sepsis in a Tertiary Centre from a Developing Country

O Olugbuyi, K Swaby, P Roberts, C Christie, N Kissoon

This study estimated the case fatality rate of doctor-diagnosed paediatric sepsis using administrative data. There was a high overall case fatality rate (13%) from doctor-diagnosed paediatric sepsis during the five-year study period.

143 Accuracy of Magnetic Resonance Arthrography in Detecting Rotator Cuff Tears

R Bullock, S Shah, T Dundas, A Mansingh, M Frankson, D Soares

Rotator cuff tears are a common cause of shoulder pain and are responsible for substantial loss of productivity and health-related costs. This study evaluated the authors' experience with magnetic resonance arthrography and proposed diagnostic algorithms.

CASE REPORTS

148 The Sandwich Technique in the Management of a Peri-articular Giant Cell Tumour of the Knee

D Clarke, D Nepaul, H Chindepalli, K Lawson

153 Sonographic Demonstration of a Gastrocnemius Fascial Defect: A Rare Cause of Calf Pain

R Bullock, DP Soares, D Sawh

RENAL FORUM

157 Cardiovascular Parameters in Chronic Haemodialysis Patients in Tobago

R Alfred-Demas, B Moore, A Trim, A Sandy-Robinson, A Wasunna

Cardiovascular mortality is a burden in patients with end-stage renal disease undergoing haemodialysis. It is important to identify cardiac risk factors that contribute to sudden cardiac death and thus optimize them.

160 Prevalence of Chronic Kidney Disease among Patients Attending an HIV Outpatient Clinic in Kingston, Jamaica

C Price, AK Soyibo, G Barrow, T Clarke, EN Barton

In the sample population, 76.9% of the patients had chronic kidney disease stage III, 7.7% were in stage IV and 15.4% in stage V. There were 3.1% of patients with persistent proteinuria. Hypertension and diabetes mellitus were co-morbidities.

165 Relationship between Early Life Factors and Renal Function in Afro-Caribbean Young Adults: Analysis from the Jamaica 1986 Birth Cohort Study

KD Rocke, TS Ferguson, NO Younger-Coleman, MK Tulloch-Reid, JM Knight-Madden, ME Samms-Vaughan, DE Ashley, AM McCaw-Binns, RJ Wilks

This study examined the relationship between birthweight and renal function among an Afro-Caribbean population of young adults from the Jamaica 1986 Birth Cohort. Analyses showed significant associations between low birthweights and reduced estimated glomerular filtration rates.

173 Chronic Kidney Disease in the Caribbean Island of Antigua: Causes, Morbidity and Mortality Factors

G Meade, AK Soyibo, M Lawrence-Wright, T Ferguson, I Thomas

Diabetes mellitus and hypertension were the most common causes of chronic kidney disease among the sampled patients in Antigua while ischaemic heart disease and infections were the major causes of morbidity and mortality among the patients.

185 A 'Full House' Glomerulopathy in a Patient with Multiple Lentiginos Syndrome: A Case Report

KK Hoe, N Smith, EN Barton, AK Soyibo