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SPECIAL ARTICLES

425 Acute Paralysis and Neuro-inflammation in Jamaican Children during ZIKV and Dengue Epidemics of 2016

R Melbourne-Chambers, CDC Christie, E Greenaway, R Bullock

The maiden Zika virus epidemic occurred in Jamaica in 2016, while Dengue (serotypes 3 and 4) and Chikungunya viruses were also co-circulating. At the height of the Zika virus epidemic, a rare cluster of acute paralysis attributed to neuro-inflammation in adolescents exposed to patients with likely Zika virus infection was observed. Clinical symptoms were similar and included peripheral nerve involvement with diagnostic syndromes of transverse myelitis, acute demyelinating encephalomyelitis and Guillain Barre syndrome. Effective vaccines are urgently needed against Zika virus and the other Aedes aegypti mosquito-transmitted diseases, while community mobilization and public health measures are maximized to prevent these epidemics.

431 Chikungunya in Jamaica – Public Health Effects and Clinical Features in Children

CDC Christie, R Melbourne-Chambers, J Ennevor, S Young-Peart, T Buchanan P Scott-Brown, N McNeil-Beecher, T Fulford-Ramdial, M Richards-Dawson, T James-Powell, ST Jackson

The maiden Chikungunya fever epidemic of 2014 in Jamaica affected most households; resulting in wide-

spread absenteeism from school and work, loss of productivity and significant attributable public health and economic impact. In addition to high fever, maculopapular rash and joint pains, significant clinical presentations in newborns and infants aged less than six months were irritability and loud groaning; those aged six months to six years presented with febrile seizures; while limping from joint pains was articulated in those aged six to sixteen years. Effective vaccines are urgently needed against Aedes aegypti mosquito-borne diseases like Chikungunya, Dengue Fever and Zika virus.

438 Zika Outbreak Associated Neurological Syndromes in Jamaica

M Williams, A Ali

The Zika outbreak and its potential association with severe neurological syndromes was declared a public health emergency by the World Health Organization. An abrupt increase in the incidence of otherwise infrequent acute neurological syndromes is described in Jamaica.

442 Outcome of Dengue in Hospitalized Jamaican Children

TD Davidson, I Vickers, CDC Christie

Before the emergence of Zika in 2016 and Chikungunya in 2014, there have been numerous

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dengue outbreaks in the Caribbean. Despite this, there is a paucity of published studies on dengue in children from this region. The potential for exponential spread of the Aedes aegypti dengue vector and its deleterious outcomes in children underlines the importance of this paper.

ORIGINAL ARTICLES

450 Assessment of Paediatric Varicella Pneumonia

F Aktar, R Tekin, MS Bektaş, M Köstü, S Aktar, A Güneş, Ü Uluca, V Sen, S Hattapoglu

Varicella pneumonia is a serious health problem in developing countries. The present study evaluated the clinical presentation, diagnosis, treatment and respiratory complications of varicella zoster pneumonia in children.

455 Risk Factors for Delinquency among Adolescent Boys in Trinidad and Tobago

A Noel, C Donald, G Hutchinson

Risk factors for delinquency were evaluated in a teenage population in Trinidad and Tobago and were found to include low academic achievement, living environment and family arrests. Self-esteem, punishment and family structure were not associated with delinquency in this population.

461 Cd40-Cd40 Ligand System and P-selectin as Early Markers for Detection of Pre-eclampsia

SA Khodeer, AM Abdu-Allah, WG El-Damaty

Pre-eclampsia is a most important health distress, as it is a principal cause of maternal and fetal mortality and morbidity. The study shows presence of activation of the CD40–CD40L system and elevated level of P-selectin in women with pre-eclampsia.

469 Saccular Function in Children with Cochlear Implant

B Mujdeci, S Onder, A Allusoglu, A Iriz, C Gocer, A Eryilmaz

We evaluated vestibular evoked myogenic potential (VEMP) in patients with unilateral cochlear implant and normal hearing individuals. Some patients with cochlear implant showed a saccular dysfunction.

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Correspondence should be addressed to:

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St Augustine, Trinidad and Tobago and Cave Hill, Barbados

- 474 The Effect of Bovine Serum Albumin and Dimercaptosuccinic Acid Coated Iron Oxide Nanoparticles on Liver and Renal Function in Mice**
P Hajshafiei, S Fatahian
The results of this study indicate that, most of the liver enzymes were actively changed significantly, but, this was temporary and most returned to their normal range after a month. From the findings here, low concentrations in vivo of Fe₃O₄ nanoparticles (less than 200 mg/kg) do not create any serious or severe toxic effect.
- 480 Expression of WNT10A Gene in Oral Squamous Cell Carcinoma**
LP Kalinke, LE Alvares, JL Schussel, AR Ávila, DP Pavoni, MA Krieger, BV De Oliveira, FD Nunes, VS Sotomaior, GP Garlet, PC Trevalatto
Oral squamous cell carcinoma (OSCC) constitutes the most frequent malignant tumour of the oral cavity. Considering the significant roles the Wnt family plays in physiological and pathological events, this study aims to investigate WNT10A gene expression in OSCC.
- 486 Publication Trends in West Indian Medical Journal: A 12-year Bibliometric Study Populates an Ontology**
TA Richards, S Muehlenbacher, F Weichert, M Wagner
A 12-year bibliometric analysis of publication trends in the West Indian Medical Journal considers the number and types of articles published, geographic area of research work, extent of collaboration based on co-authorship, medical specialties of research and institutional affiliation of the corresponding author. An ontology has been populated by these data to support future mathematical modelling and simulation.
- 492 Liver Function Status of Malaria Patients in Benin City, Nigeria**
EC Onyeneke, EI Oikeh, A Obhakhan
We conclude from our findings that hepatocyte function is increasingly compromised as malaria severity increases.
- 496 Detection of HPV Infection in Non-cancer Oesophageal Lesions and Normal Tissue by Nested Polymerase Chain Reaction**
F Moshiri, S Siadati, J Shokri-Shirvani, M Haji-Ahmadi, Sh Shafaei, Y Yahyapour
Human papilloma virus (HPV) can be the aetiological factor in benign or malignant oesophageal epithelium. Nested PCR was performed for detection of HPV in non-cancer oesophageal lesions. A third (33.7%) of samples were infected with HPV DNA. This can lead to cell changes that over many years may develop into cancer.
- 500 Levers of Serum D-Dimer among Patients with Aortic Intramural Haematoma**
S-N Yang, Z-Q Zhou, C-L Xiang, Q Zhang, L-J Jin, X-L Mao
D-dimer levels between patients with acute aortic dissection (AAD) were compared with acute intramural haematoma (AIH), retrospectively to determine whether
- there is a difference of serum D-dimer levels between patients with AIH and patients with AAD.*
- 505 Urinary Advanced Oxidation Protein Product (AOPP): A Potential Oxidative Damage Marker for Cancer**
S Chandramathi, K Suresh, ZB Anita, UR Kuppasamy
The urinary oxidative protein damage in cancer is significantly higher than in diabetes mellitus (with and without hypertension) and may potentially serve as a non-invasive oxidative biomarker for cancer.
- 511 An Audit of Haematology/Oncology Clinic Services at an Urban Academic Hospital in Jamaica**
SN Chin, C Green, G Gordon-Strachan, G Whafe
The Haematology/Oncology Clinic is a clinical training unit of the UWI, and serves patients with a wide range of disorders. In this study the types of disorders seen were explored, and recommendations put forward for expansion of cancer care and supportive services.
- 515 Meaning of Life in Cancer Patients Associated with Demographic and Clinical Characteristics**
M Chehrehgosha, A Sanagu, A Mohammadi, AR Shahmirzadi
In 150 patients, average score of meaning in life was 7.18 ± 1.99. Marital status ($p < 0.029$), treatment type ($p < 0.012$), number of children ($p < 0.018$) and place of residence ($p < 0.046$) were statistically significant.
- 519 Perception and Satisfaction with Received Information Regarding Treatment for Intestinal Parasitic Infections in Cuban Patients**
R Cañete, K Brito, D Guilhem, KW Goodman
The study evaluated patients' perceptions and satisfaction with received information regarding treatment for intestinal parasitic infection in a public health institution in Cuba. The results suggest that more inclusion in the treatment process could guarantee users' compliance with health providers.
- 525 Plasma Kisspeptin Levels in Hypothyroidism and Premature Newborns**
A Kaya, Z Orbak, H Polat, E Şebin, İ Polat, E Gülfidan
Kisspeptin may play a role in the differentiation of various changes in the newborn period. A statistically significant kisspeptin levels was determined between hypothyroid and the control groups and also a statistically significant kisspeptin levels was seen between the premature and the control groups.
- 529 Do Patient Factors Affect the Outcomes of Total Joint Replacement Surgery?**
DK Thomas, M Mencia
A prospective cross-sectional study analysed subjects who underwent simple arthroplasty. Pre-operative patient fac-

tors that influenced patient-reported outcome scores were identified. Obesity does not result in worse postoperative outcomes. These results were statistically significant.

533 Clinicopathological Characteristics and Treatment Outcomes of Pulmonary Carcinosarcoma in Eight Patients

GH Ekinci, O Haciomeroglu, SK Metin, A Ersev, PA Guney, Ç Tezel, A Yilmaz

The present study included eight cases with pulmonary carcinosarcoma. Pathological diagnosis of PC was made by surgical resection in all patients. Operations were lobectomy (n=6), inferior bilobectomy (n=1) and pneumonectomy (n=1). The median survival time was 21.5 months (range: 1-75 months).

538 Thyroid, Parathyroid and Eye Dose Evaluation in Head and Neck CT Examinations, Phantom and Clinical Study

A Asgari, AA Parach, AA Sharafi, B Nazarpour, S Parvizi

In this paper, we report on some critical organ doses from brain computed tomography (CT) scans in different depths of phantom and compare with patient's dosimetry. This is significant because most studies evaluate the organ doses from surface dosimetry of the patient but we estimated the organ dose, in different depths of humanoid phantom.

543 Thymoquinone Reduces Oxidative and Nitrosative Stress in Tongue Tissue of Rats Exposed to Total Cranial Irradiation

S Taysi, E Baysal, E Demir, M Akan, H Binici, M Adli, M Akyuz, E Saricicek, F Kara, H Ulusall, E Karataslioglu
This is the first study that investigates the effect of thymoquinone on the oxidant/antioxidant system in the irradiated tongue tissue of the rats.

551 The Clinical Significance of DNA Ploidy Analysis in Patients with Rectal Carcinoma and Precancerous Lesion

Y Zhang, J Xie, J Wang, D Yang, G Han, Q Fu, Y Zhang
In this study, we explored the clinical significance of DNA ploidy analysis in rectal carcinoma and precancerous lesions. In conclusion, DNA ploidy analysis could be a valuable tool to evaluate the proliferation status and malignant degree of rectal carcinoma.

557 Non-Alcoholic Fatty Liver Disease in a Jamaican Patient Population

K King-Robinson, MG Lee, D Whittle, M Mills, B Hanchard, S Shah

Prevalence of NAFLD on abdominal ultrasound was 2.4%. Increased BMI was present in 85.5%. Risk factors identified were age, obesity, diabetes and dyslipidaemia. Hepatomegaly was present in 10.7% of patients, elevated serum AST in 21.2% of patients tested and elevated ALT in 3.7%.

BRIEF COMMUNICATION

561 Analysis of Antibiotic Resistance in *Escherichia Coli* Strains, Isolated from Urine Cultures in Laboratories of Kashmar, Iran

M Zare, MR Bayhaqi, R Zare

Resistance of bacteria, causing urinary tract infections, is increasing with indiscriminate prescription of antibiotics. This study evaluated antibiotic susceptibility and resistance and confirmed an increase in resistance of some bacteria due to indiscriminate use of antibiotics.

CASE REPORTS

564 Water Slide Injuries in Jamaica

CK Fletcher, D McDowell

569 Electroconvulsive Therapy for Extreme Mania in Pregnancy

C-S Chen, S-L Lin, C-L Chang

572 Surgical Excision and Autograft after Allergic Reaction to Tattoo Ink: A Case Report

JL Gómez-Urquiza, GA Cañadas-De la Fuente, H Husein-El Ahmed, RF Castillo

575 A Flare-up of Behcet's Disease with Sweet's Syndrome: A Case Report

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