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771 EDITORIAL

Protein and Liver Function Changes Following Body Irradiation: 'A Research Needs' for Further Exploration in Present Day Man-made Environmental Changes

TT Marchie, CR Nwokocha

773 ORIGINAL ARTICLES

Proteins and Liver Function Changes in Rats Following Cummulative Total Body Irradiations
CR Nwokocha, M Nwokocha, P Mounmbegna, J Orhue, O Onyezuligbo, EH Olu-Osifo, E Okojie, E Asuquo, T Ejimofor, N Ikenna, M Judith

Cumulative total body irradiation caused subtle but significant changes in liver function enzymes and proteins which may be due to non-specific stress reactions; as such they are important markers in radiation induced injury diagnosis.

778 Detection and Characterization of Metallo- β -lactamases in *Pseudomonas aeruginosa* by Phenotypic and Molecular Methods from Clinical Samples in a Tertiary Care Hospital

K Arunagiri, B Sekar, G Sangeetha, J John

*The present study confirms the dissemination of metallo- β -lactamase (MBL) genes among multi-drug resistant *Pseudomonas aeruginosa*. Early recognition of MBL producers is important and necessitates rigorous infection control measures and restricted use of carbapenems for treatment of clinical infections. The dissemination of this gene to clinically relevant species*

may endanger patients and it may have adverse implications on treatment.

784 Plasmid-mediated Fluoroquinolone-resistance *QnrA* and *QnrB* Genes among *Escherichia coli* from Cattle in Ado-Ekiti, Nigeria

AO Ajayi, AO Oluduro, OA Olowe, AT Odeyemi, O Famurewa

*Fluoroquinolones are antibiotics of choice for treatment of infections in humans and are also increasingly used sub-therapeutically in veterinary practices. Seventeen plasmid-carrying fluoroquinolone-resistant representative isolates of commensal *E coli* recovered in a previous study from faeces of apparently healthy cattle in Ado-Ekiti, Nigeria, were investigated for the presence of *qnrA* and *qnrB* genes on plasmids using polymerase chain reaction.*

789 Anticardiolipin Antibodies and Lupus Anticoagulants among Women Undergoing *In Vito* Fertilization in Jamaica

V DaCosta, L Chin, S Wynter, J Harriott, L Christie, S Frederick-Johnston, J Frederick, C McKenzie, D Everett, R Foster, Y Walters, A Pottinger

Approximately 8% of the infertile women seeking in vitro fertilization in Jamaica were anticardiolipin antibody and/or lupus anticoagulant positive. The presence of these antibodies did not affect the fertilization rate, pregnancy rate, nor did it demonstrate an increased

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*Continued from front cover**risk for cycle cancellation or the ovarian hyperstimulation syndrome.***795 The Prevalence and Significance of Oestrogen Receptor (ER) Positivity in Breast Cancer at the University Hospital of the West Indies, Jamaica**

R Alfred, SN Chin, E Williams, C Walters, EN Barton, D Shah

*Oestrogen receptor (ER) status was positive in 125 (63%) and negative in 74 (37%) patients diagnosed with breast cancer. By comparing the cohorts of ER negative to ER positive patients, one can accurately identify which clinical variables bear clinical significance in this population and are affected by ER status, as well as impact patient outcome.***802 Prevalence of the Metabolic Syndrome in Patients Presenting to the University Hospital of the West Indies: A Need to Adopt Proactive Screening and Specific Management Policy**

M Gossell-Williams, J Martin, S Neita, RC Gibson, W Abel, C Sewell, D McGrowder

*The prevalence of metabolic syndrome in a group of adult psychiatric patients at the University Hospital of the West Indies was 28.9% and could represent a pathway to the future development of Type 2 diabetes mellitus and cardiovascular disease. Screening and continuous monitoring will allow for early intervention and possibly prevention of increased morbidity and mortality in this vulnerable population.***809 An Assessment of the Risk Factors for Type 2 Diabetes among Women in Rural Jamaica**

GC Bryan, JA Johnson, L Dawes, C Samuel

*Risk factors for Type 2 diabetes among women in rural Jamaica were assessed using the behavioural risk factor surveillance system (BRFSS) and body mass index (BMI). A comprehensive plan targeting women to reduce risk for Type 2 diabetes is recommended.***DENTAL FORUM****814 Mathematical Model for Osteobstruction in Bone Regeneration Mechanisms: A Headway in Skeletal Tissue Engineering**

C Ogunsalu, FI Arunaye, C Ezeokoli, M Gardner, M Rohrer, H Prasad

*In this paper, mathematical models are formulated for the Ogunsalu osteobstruction phenomenon. Mathematical modelling could be used**Continued on Inside Back Cover***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>, www.scielo.org, www.bireme.br<http://ojs.mona.uwi.edu/index.php/wimj>**E-mail:** wimj@uwimona.edu.jm**Telephone:** (876) 927-1214 **Fax:** (876) 927-1846**ANNUAL SUBSCRIPTION:** Overseas US\$150.00

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to predict, interpret and generalize the results of osteoblastic mechanism in bone regeneration.

821 Antibacterial Effects of Several Current Orthodontic Materials against *Streptococcus mutans*

B Çatalbaş, H Kamak, A Demir, M Nur, HH Hadimli
*The antibacterial activities of several orthodontic materials were tested against *Streptococcus mutans*, which is heavily implicated in dental caries. Results show that not all orthodontic materials exhibit clinically significant antibacterial effects.*

826 Estimation of the Levels of C-reactive Protein, Interleukin-6, Total Leukocyte Count, and Differential Count in Peripheral Blood Smear of Patients with Chronic Periodontitis in a South Indian Population

DK Gani, SK Mallineni, Ambalavanan, Ramakrishnan, Deepalakshmi, P Emmadi

Periodontitis results in higher systemic levels of C-reactive protein, interleukin-6, total leukocyte count and neutrophils. These elevated inflammatory factors may increase inflammatory activity in atherosclerotic lesions, potentially increasing the risk for cardiovascular events.

CASE REPORTS

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R Forde, H Ashman, EW Williams, J Williams-Johnson

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C Wen, Q Liang, Z Yi, W Wan

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844 Glucocorticoid Hypersensitivity Syndrome – A Case Report

R Krysiak, B Okopień

LETTER TO THE EDITOR

847 A Summary of the Importance of Additional Approaches to Prevent Dementia by Experts in Relevant Fields Working in Concert

K Inoue, Y Fujita, T Fukunaga, Y Okazaki