



EDITORIAL

1 Sustaining the Research Culture and Productivity in Developing Country Settings RJ Wilks

ORIGINAL ARTICLES

4 An Assessment of the Accuracy of Creatinine Measurements in Guyana

JL Shaw, YP Irving, B Jacobson, DW Seccombe The accuracy of creatinine measurements in 16 Guyanese medical laboratories was assessed using blinded creatinine reference specimens. Creatinine methods in use in Guyana demonstrated imprecision and bias such that routine reporting of estimated glomerular filtration rates cannot be recommended at this time.

9 The Effect of Continuous Positive Airway Pressure on Basal Metabolism Rate in Patients with Severe Obstructive Sleep Apnoea Syndrome

T Onyilmaz, S Argun Baris, H Boyaci, I Basyigit, G Dogru, F Yildiz

Basal metabolism rate is defined as the energy consumption required for maintaining body functions and metabolic activities. Previous studies have shown significantly higher energy consumption in patients with obstructive sleep apnoea syndrome (OSAS) compared to healthy subjects. The aim of this study was to evaluate the effects of short-term continuous positive airway pressure treatment on the basal metabolism rate in patients with severe OSAS.

15 Which Factors are Predictive for Presence of Insulin Resistance in Patients with Rheumatoid Arthritis?

I Tekeoğlu, H Harman, G Gürol, D Arpacı Karakaya, IH Çiftçi

We investigated obesity and insulin resistance and associated factors in patients with rheumatoid arthritis. Cumulative steroid dose, the presence of obesity and disease activity were the best predictors for insulin resistance. Disease modifying anti-rheumatic drugs may help to reduce insulin resistance.

21 Phototherapy Induces an Improvement in Clinical and Biochemical Scores in Patients with Rheumatoid Arthritis

> J Meneses Calderón, G Aburto Huacuz, I González Sánchez, A Gutiérrez Vilchis, H Mendieta Zerón Rheumatoid arthritis is a common autoimmune disease for which there is no known cure. Within a range of 425–650 nm and 11.33 J/cm², phototherapy can induce an improvement in clinical and

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26 Do the Different Types of Pulmonary Hypertension Cause the Same Effect on Right Heart and Serum Asymmetrical Dimethylarginine Levels in Female Patients?

> G Taçoy, HD Başer, A Çengel, K Başer, Ö Kuş, AF Tuncel, A Bolayir, H Paşaoğlu, B Boyaci, R Yalçin

> This study aimed to evaluate if the different types of pulmonary hypertension had the same effect on right-heart functions and serum asymmetric dimethylarginine levels in female patients. It was found that pulmonary arterial hypertension caused more impaired right-heart functions than pulmonary venous hypertension.

32 Serum Magnesium and High-sensitive C-reactive Proteins in Hypertensive, Obese Female School Learners

> AM Sekokotla, JE Iputo, CR Sewani-Rusike, IM Malema, OV Adeniyi, DT Goon, BN Nkeh-Chungag

> This study highlights the increased cardiovascular risks in overweight/obese female school learners in an understudied region of South Africa. There were higher proportions of pre-hypertension, hypertension, and low-grade inflammation in overweight/obese participants in comparison with their lean participants.

38 The Prognostic Importance of Immunohistochemical Biomarkers in Diffuse Large B-Cell Lymphoma

S Korkmaz, M Sencan, E Yildiz, H Terzi, R Egilmez

Patients with diffuse large B cell lymphoma (DLBCL) were sub-classified by immunohistochemical method to evaluate the effects of subgroups on prognosis. The lymph node biopsy specimens of 40 patients with DLBCL were stained with monoclonal antibody immunstains of CD10, Bcl-6 and MUM1. Finally, MUM1 was found negatively correlated with overall survival and event-free survival.

44 Excess Calcium, Magnesium and Phosphorus Deposition in the Epigastric Artery of Dialysis Patients Undergoing Renal Transplantation RF Castillo, R-J Esteban, E Planells, O Haouari, JM López, AM Morcillo, JV Prados, MG Morales, J-J Carrero, JB Soto

Vascular calcification is a real problem related to chronic kidney disease, usually estimated by imaging methods. This study provided evidence on the quantitative increase of calcium, phosphorus and magnesium in the vascular wall in long-term dialysis patients undergoing transplantation. Knowing this type of data can help us to better understand and improve the prognosis of our patients.

51 The Effects of 2100 MHz Radio Frequency Radiation on Thyroid Tissues

> S Tuncal, AK Önalan, F Aydoğan, V Unsal, N Yumuşak, EÖ Büyükatalay, G Öztürk, N Seyhan, S Celepli, E Devrim, B Kılıçoğlu

> This study aimed to show the effect of 2100 MHz radio frequency radiation on the thyroid tissues of rats in early and late stages. According to the study, smart phones did not lead to significant biochemical and histopathological changes in the thyroid tissues of rats.

56 The Effects on Offspring of Diabetes Mellitus Induced by Chemical Agents in Rats with Advanced Pregnancy

N Canli, HA Ozkan, A Risvanli

Diabetes is the most important cause of perinatal mortality, and a four- to eight-fold greater malformation rate is observed among babies of diabetic mothers than among the general population. Cardiac anomalies and central nervous system anomalies are the most common anomalies observed in babies of diabetic mothers.

60 An Autopsy Series: Lightning-related Deaths in Van and Hakkâri Provinces, Turkey

Y Hekimoglu, M Asirdizer, U Demir, A Gur, Y Etli, O Gumus, E Kartal

This study reported one of the largest series of lightning-related deaths in Turkey. The literature on this subject was reviewed, and similarities and differences between autopsy findings of the presented series and literature information were defined. From January 1, 2011 to December 31, 2015, 11 lightning-related fatalities occurred in Van and Hakkari Provinces, Turkey.