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*Experimental Study***Effect of clofibrate on the enzymes associated with oxidative stress in Wistar rat liver**

Bogdanska JJ, Todorova B, Labudovic D, Atanasovska E 56

Application of clofibrate for 12 days caused significant increase of the hydrogen peroxide producing enzymes in the Wistar rat livers. Hydrogen decomposing enzymes showed decrease of the activity (superoxide dismutase and glutathione peroxidase) or limited increase of the activity (catalase). The results support the hypothesis that peroxisomal proliferators might lead to oxidative stress.

*Clinical Studies***Impact of hepatitis B core antibody (anti HBc) seropositivity on interferon/ribavirin treatment response in patients with chronic hepatitis C**

Ibrahim Biyikoglu, Levent Filik, Dilek Oguz, Bahattin Cicek, Birhan Yilmaz, Emin Altiparmak 65

AntiHBc seropositivity among patients with chronic HCV infection is not a rare entity (57.14 %). We observed that antiHBc antibody seropositivity does not have a significant impact on treatment responses to interferon/ribavirin therapy in patients for chronic HCV infection in contrast to some reports in the literature.

The redox state of glutathione in erythrocytes of individuals with Down syndrome

Muchova J, Garaiova I, Sustrova M, Liptakova A, Blazicek P, Kvasnicka P, Durackova Z 70

The redox state of glutathione has been used as indicator for the redox environment of the cell. We investigate relationships between the redox potential of couple GSH/GSSG and SOD activity, resp. the oxidative stress markers production (MDA and lipofuscin). It is useful to look at the GSH and GSSG concentrations separately as well as at redox potential value, which influence total redox state of organism.

Metabolic encephalopathy in Egyptian children

Hindawy A, Gouda A, El-Ayyadi A, Megahed H, Bazaraa H 75

Fatty Acid Oxidation disorders represent an expanding group of inborn errors of metabolism. Clinical manifestations include episodic encephalopathy, hypoketotic hypoglycemia, Reye like episodes, hepatic, muscular, cardiac affection and sudden death. Timely detection of these disorders including screening for MCADD can have a favorable impact on the outcome of these patients.

Current opinions on the role of inhaled corticosteroids in the treatment of chronic obstructive pulmonary disease

Lassan S, Tisonova J, Lassanova M, Wawruch M, Kristova V, Kriska M 83

Chronic obstructive pulmonary disease (COPD) is one of the main cases of mortality and morbidity of population worldwide. In spite of enormous efforts there are not pharmacological agents evidently influencing natural course of disease available. Besides looking for new drugs influencing the long term outcome of patients with COPD, there is also running the process of re-evaluation of the role of several already established drug groups.

Ischemic disease of lower extremities – risk factors and ultrasound diagnostic

Bodikova S, Flak L 89

The authors investigated 77 patients (61 men, 16 women) with clinical signs of PAD, without previous arterial intervention, using the color duplex sonography and angiography. An average age was 63.5±11 years. They followed the risk factors of the atherosclerosis (smoking, diabetes mellitus, arterial hypertension, hyperlipidemia and obesity) and almost 86 % of the patients had multiple risk factors.

*Pharmacological Study***The antitussive activity of polysaccharides from *Althaea officinalis* L., var. *Robusta*, *Arctium lappa* L., var. *Herkules*, and *Prunus persica* L., Batsch**

Sutovska M, Nosalova G, Franova S, Kardosova A 93

The purified or modified polysaccharides originated from various plants possess the antitussive activity on mechanically induced cough in conscious cats. This activity is significantly higher than cough-suppressive ability of antitussive drugs with peripheral mechanism of action. Adverse reaction and negative influence on expectoration is negligible in comparison with codeine.

*Treatment***Trastuzumab in the adjuvant treatment of breast cancer**

Svetlovska D, Mardiak J, Kristova V 100

Four large randomized trials to assess efficacy and toxicity of trastuzumab in adjuvant systemic therapy of breast cancer have been initiated. Results clearly demonstrate, that adjuvant treatment of trastuzumab significantly improves outcomes for women with HER2 positive breast cancer. The clinically most significant adverse events of trastuzumab are serious-infusion related reactions and cardiotoxicity. Benefit for patient should be considered according to advantage versus risk.

*Case Report***Unusual venous sinuses**

Srijit D, Shipra P 104

The dural venous sinuses lie in between the two layers of the dura mater. The dural venous sinuses are important, because they receive blood from the brain and the cranial bones. All sinuses are related to the inner surface of the skull, except for the inferior sagittal and the straight sinus. The sinuses related to the inner surface of the skull produce impressions on it.

*Treatment***Reconstruction of the skull base after injuries**

Matejcik V, Steno J, Poruban P 107

The most serious part of the operation is the isolation of the liquor space from the external environment. Reconstruction surgeries of the skull base have significantly improved in recent years due to development of new methods in diagnostics and treatment. 3D CT reconstruction has proven to be particularly valuable for the verification of liquorea even in patients with inactive liquorea at the time of examination, as well as in patients with no CT defects or with normal MR finding.

*Debate and Education***Phonetic problems with Slovak in foreign students studying medicine in Slovakia**

Dzukanova B, Balkova D 112

The authors of this article have focused their attention to the most serious problems, the Slovak language causes to foreign students studying medicine at Jessenius Faculty of Medicine in Martin.