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*Experimental Study***The protective role of anandamide in mesenteric ischemia reperfusion injury in guinea pig**

Kenan Yusufzade, Murat Akin, Ipek Isikgonul, Ozlem Gulbahar, Ahmet Ziya Anadol, Osman Kurukahvecioglu, Sevim Ercan, Mustafa Sare ..... 379

Acute mesenteric ischemia is an entity characterized by rapid developing of circulatory failure. Reperfusion following ischemia causes further mucosal injury. In this study, the effect of anandamide (arachidonoyl ethanolamide) – an arachidonic acid metabolite – on ischemia-reperfusion (I/R) injury was investigated as well as the roles of CB1 and CB2 types of receptors.

*Clinical Studies***The MCP-1 -2518 (A/G) single nucleotide polymorphism is associated with ischemic heart disease and myocardial infarction in men in the Slovak population**

Bucova M, Lietava J, Mrazek F, Petrkova J, Penz P, Bernadic M, Buckingham TA, Petrek M ..... 385

The authors investigated the MCP-1 -2518 (A/G) single nucleotide polymorphism (SNP) in Slovak cohort of patients with ischemic heart disease (IHD). This study comprised 270 patients with IHD, out of them 92 with myocardial infarction (MI). The authors found that the frequencies of the mutant GG genotype in Slovak patients with IHD and MI were significantly higher than those in the control subjects.

**Mid-term results of one-stage surgical correction of congenital vertical talus**

Mathew PG, Sponer P, Karpas K, Shaikh HH ..... 390

We recommend operative treatment for congenital vertical talus by end of first year of age. Clinical and radiographic follow-up during one and seven and half years shows satisfactory shape of the foot and a nearly normal alignment of tarsal bones. The children are able to wear normal shoes with insoles due to flexible flatfoot and lead an active life.

**The relationship between cell surface markers, cytokines, ageing, and cigarette smoking**

Horvathova M, Jahnova E, Szabova M, Tulinska M, Kuricova M, Liskova A, Volkovova K, Dusinska M ..... 394

The immune system undergoes characteristic changes with ageing, and it is well known that the deterioration of the immune system contribute to morbidity and mortality in humans. The purpose of this study was to investigate the modulation of selected cell surface markers and proinflammatory cytokines production in relation to ageing, and cigarette smoking. The analysis of cell surface receptors was performed by the flow cytometry and cytokines levels were evaluated by the sandwich enzyme immunoassays.

**Metabolic syndrome and the risk of preeclampsia**

Drobny J ..... 401

Metabolic syndrome is the presence of risk factors causing cardiovascular disease. Many of the risk factors related to metabolic syndrome are the risk factors in the development of preeclampsia, which is the main cause of perinatal mortality and morbidity. Previously, metabolic score was proposed to establish the risk of preeclampsia. The purpose of this study was to determine if the evaluation of the metabolic score is a suitable approach to assess the risk of preeclampsia.

**Trends in acute adult poisoning in a ten-year period in Turkey: factors affecting the hazardous outcome**

Salim Satar, Gulsah Seydaoglu, Ayca Akpınar, Ahmet Sebe, Emre Karakoc, Umut Gumusay, Mustafa Yilmaz, Yuksel Gokel ..... 404

Young people and women are high-risk groups for acute poisoning and drug poisoning was found to be the most common type of poisoning. The poisoning by psychoactive drugs is increasing in the recent years and organophosphates poisoning seems to be still a serious problem in such an agricultural area. However, while the ratios of prolonged hospitalization and mortality are decreasing, suicidal poisoning is seriously increasing.

**Subtotal colectomy in the treatment of acute malignant left-sided large bowel obstruction**

Olejnik J, Bodnarova M, Gergel M ..... 412

Subtotal colectomy as a single-stage procedure is an optimal surgical treatment of in cases of acute left-sided large bowel obstruction and the patients in long-term follow-up do not require pharmacological therapy affecting the stool frequency. Authors confirmed a significant reduction of morbidity and mortality in comparison with two-stage procedures.

**Activities of adenosine deaminase and 5'-nucleotidase in cancerous and non-cancerous human gastric tissues**

Erdal Gocmen, Mesut Tez, Serdar Ozturk, Mahmut Koc, Salim Demirci ..... 416

Gastric cancer is still one of the most common fatal types of cancer in the world. The abnormalities in purine metabolism are a characteristic feature of many human tumors. Little is known about the correlation between the activities of key enzymes of purine nucleotide pathway and some clinical indicators of gastric cancer invasiveness and aggressiveness.

**The effect of photocoagulation on visual acuity in diabetic patients suffering from diabetic macular edema and diabetic retinopathy**

Ilavska M ..... 419

The aim of the study was to evaluate the effect of photocoagulation and range of treatment on visual acuity (VA) in patients with diabetic macular edema. The study was based on comparison of central visual acuity before and after the photocoagulation. The focal photocoagulation or grid photocoagulation was done at the treatment of diabetic macular edema. Sequence pan-retinal photocoagulation was done at the patients with severe nonproliferative or proliferative diabetic retinopathy. Results of this study affirm the benefit of photocoagulation for keeping the visual acuity. Reasonable range and correct timing of treatment are indispensable.

*Surveillance***Epidemiological situation on sexually transmitted infections in the years 1996–2005, Department of Dermato-venereology, Faculty of medicine, Comenius University Bratislava**

Bobik O ..... 423

Sexually transmitted infections are global health issues. STI belong to the most frequent diseases and cause of death in the world, and have long lasting health, social and economic outcomes. Diagnostic failure of traditional infections has a harm-

ful effect on pregnancy and newborns and consequently on the rate of abortions, immaturity and infections and also on late complications, such as pelvic infections, extra uterine pregnancy, infertility or cervical cancer.

*Reviews*

**Human sexuality during pregnancy and the postpartum period**

Brtnicka H, Weiss P, Zverina J ..... 427

Sexuality of forthcoming and new-blown parents plays an important medical and psychological role. Sexuality can be both negatively and positively influenced by the pregnancy and the childbirth. Progesterone plays a dominant role during the first trimester of pregnancy, later the uterine susceptibility starts to be important. Low level of estrogens is crucial in the postpartum period.

**Doppler flowmetry in preeclampsia**

Zahumensky J ..... 432

The purpose of this study was to summarize the new published data on the Doppler flowmetry in preeclampsia. The present review summarized the results of clinical research on the Doppler flowmetry in the screening of risk of preclampsia, in the diagnosis of preclampsia and in the fetal risk in preclampsia.

*Anatomico-radiological Study*

**Sacral hiatus in relation to low back pain in south Indian population**

Vishal Kumar, Soubhagya Ranjan Nayak, Bhagath

Kumar Potu, Thejodhar Pulakunta ..... 436

Various anatomical and sonographic studies have been conducted to know the shape, size and anatomical variability of the sacral hiatus. The knowledge of the sacral hiatus is important in caudal epidural block (CEB). The patients with LBP had a higher percentage of deficient dorsal walls in comparison to the osteological findings.