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*Experimental Study***Small bowel graft revascularization in experiment**

Oliverius M, Balaz P, Kudla M, Valsamis A, Cap J, Adamec M 65

Present study compares two different techniques for small bowel graft revascularization in pigs. Technical aspects are complete mastering are important for is the procedure to be successful. While using a single animal as graft donor and recipient is feasible, it is technically significantly more complicated and more costly. Therefore, using one animal as donor and another as recipient is clearly more advantageous.

*Clinical Studies***Urinary N-acetyl-beta-D-glucosaminidase (U-NAG) activity in children with vesicoureteral reflux**

Skalova S, Rejtar P, Kutilek S 69

The aim was to measure U-NAG, marker of renal tubular impairment, in children with vesicoureteral reflux (VUR) grade I-V. U-NAG/Cr was increased and there was a very weak correlation with the grade of VUR, suggesting a poor relationship with the degree of kidney damage in patients with VUR.

Gene polymorphisms of renin angiotensin system and serotonin transporter gene in patients with vasovagal syncope

Mudrakova K, Mitro P, Salagovic J, Habalova V, Kirsch P, Tkac I 73

The association between gene polymorphisms of angiotensin converting enzyme (I/D ACE), angiotensinogen (M 235), angiotensin II receptor (A 1166C) and serotonin transporter (5HTTLPR), and predisposition to vasovagal syncope was not proven in the present study.

High virologic sustained response for former young intravenous drug users with chronic hepatitis C treated by pegylated interferon- α plus ribavirin

Gazdik F, Gazdikova K, Laktis K, Okruhlica L, Fejdiova K, Danis D, Pijak MR, Wsolova L, Kajaba I, Kratky A 77

The aim of this clinical study was to assess virological response at end-of-treatment (ETR), sustained virological (SVR) and biochemical response in former drug users with chronic hepatitis C treated with PEG-IFN- α and R. Crucial predictive factors resulting in high SVR were the younger age in combination with low stage of liver fibrosis, relatively short duration of viral infection, high proportion of genotype 3 and excellent adherence of patients to treatment regimen than previously not treated with IFN- α and R (naive patients).

*Reviews***Genetic screening of patients with hypertrophic cardiomyopathy – a new diagnostic strategy for risk stratification?**

Hudecova K, Simkova I, Gardlik R, Bernadic M 85

HCM is the most common genetically determined cardiovascular disease and is prevalent in approximately in 1 of 500 of the population. The most serious complication of HCM is sudden cardiac death (SCD) which can be the first manifestation of the disease. However, there are other forms of benign prognosis which do not jeopardize patient's health or life. The clinical symptoms of HCM are partly dependent on mutations in affected sarcomere genes.

Metallothionein – a promising tool for cancer diagnostics

Krizkova S, Fabrik I, Adam V, Hrabeta J, Eckschlager T, Kizek R 93

Early detection of cancer offers the best chance of its treatment successfully. Recent research outcomes indicate that MT levels

in peripheral blood and serum of cancer patients can provide important information about the type or clinical stage of the disease, or response to therapy. MT, its structural properties and biochemical functions are discussed.

Use of probiotics for prevention of radiation-induced diarrhea

Blanarova C, Galovicova A, Petrasova D 98

Previous studies showed a protective effect of probiotic administration after radiation therapy, and probiotic may play an important role in the pathogenesis of radiation enteropathy. These studies indicate that probiotics may decrease the risk of accumulated reactive oxygen species (ROS) in host organisms and could potentially be used as probiotic food supplements to reduce oxidative stress.

*Topical Reviews***Comorbidity psychiatric disorders in epilepsy: a review of literature**

Titlic M, Basic S, Hajnsek S, Lusic I 105

Psychiatric disorders were observed more frequently in patients with high seizure frequency. There is significant prevalence of epilepsy comorbidity with depression, anxiety disorders, and to a lesser extent with bipolar disorders and other forms of psychosis. Suicidal risk factors, ideation and attempts in these patients as correlates of depression or as psychopathological features were associated to epileptic disease.

Controversy of the third molars

Pitekova L, Satko I 110

Third molars are teeth that have little functional value and a relatively high rate of associated pain and disease. Their value as a part of the dentition of modern people is dubious. Our aim is to review the evolution, morbidity and complications of the third molars.

*Surveillance***Paradoxes in medicine: an access to new knowledge?**

Ginter E, Simko V, Dolinska S 112

The analysis of health and nutrition data from various countries shows many surprising and seemingly incomprehensible facts and paradoxical relationships. Health status of a country is the result of long-term factors and therefore it cannot be changed from day to day.

*Case Reports***Recurrent malignant epitheloid schwannoma of the lower lip**

Jurkovic R, Stanko P, Galbavy S, Sieberova G, Babal P . 116

The authors describe a case of recurrent malignant epitheloid schwannoma of the lower lip. Despite the complex intensive therapy, the patient died of metastases into lungs, liver and spine 37 months after the initiation of the therapy.

Imperforate hymen with hematocolpometra combined with elevated Ca125

Kalmantis K, Koumpis C, Daskalakis G, Papantoniou N, Mesogitis S, Antsaklis A 120

Ultrasound examination ruled out the presence of hematosalpinx or other gynecological tumors. This was of great importance to the surgical intervention, especially for avoiding laparotomy. Dilatation of the vagina and uterus, due to imperforate hymen with retrograde menstruation should be considered in the differential diagnosis of abdominal pain in premenarchal girls.