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*Experimental Study***Effect of NO-synthase and arginase inhibition in airway hyperreactivity**

Strapkova A, Antosova M, Nosalova G 191
 Authors studied the effect of inhibition of enzymes utilizing L-arginine on the changes in airways response in allergen-induced hyperreactivity in guinea pigs. They used inhibitors of NO synthases (L-NAME, aminoguanidine) and inhibitor of arginase (NOHA). Results establish the importance of optimal NO homeostasis in the control of bronchomotoric tonus.

*Review***Neuroendoscopy**

Chrastina J, Novak Z, Riha I 198
 The article describes the history of neuroendoscopy with its milestones and principal technical discoveries.

*Case Report***Shock – manifestation of pulmonary atresia with aorto-pulmonary collaterals and single ventricle physiology in a 2-day neonate**

Kovacikova L, Skrak P, Zahorec M, Masura J 202
 Pulmonary atresia and ventricular septal defect with single ventricle physiology may lead to shock and death very early following birth due to an excessive flow through major aorto-pulmonary collaterals.

*Clinical Studies***Severe acute otitis media in children**

Pavlovcinova G, Jakubikova J, Hromadkova P, Mohammed E 204
 Acute otitis media (AOM) is one of the most common infections in children. Recently it was noticed that there is a marked increase in relapse of severe acute otitis media in children. There is also an increase in number of hospitalized children due to severe AOM, with etiological agent resistant to antibiotics. There is a rise of infections, caused by highly resistant *Streptococcus pneumoniae*, too.

Perforation of gallbladder

Emre Ergul, Erdal Ozgur Gozetlik 210
 Gallbladder perforation is a rare but life threatening complication of acute cholecystitis. Aim of this study is to present our clinical experience with gallbladder perforation. Early diagnosis of gallbladder perforation and immediate surgical intervention are of crucial importance. Unfortunately, the limited success of US and CT for detecting the GBP let us advocate early and urgent surgery.

Outcomes after surgical repair of sinus venosus atrial septal defect in children

Sojak V, Sagat M, Balazova E, Siman J 215
 The outcomes for children undergoing surgical repair of sinus venosus atrial septal defect are analyzed. The subtype with partial anomalous pulmonary venous drainage into the superior vena cava is more challenging because of technical difficulties and associated morbidities. Warden procedure is safe and associated with lower incidence of postoperative arrhythmias.

The first experience with the high-resolution multi-slice CT – angiography in pediatric cardiology in Slovakia

Olejnik P, Boruta P, Glezlova A, Bordacova L, Masura J 220
 The high-resolution multi-slice computed tomography angiography (HRMS-CTA) is a new imaging method characterized by

a precise isotropic imaging of any cardiovascular system structure. The purpose of this study was to review the first experience with the high-resolution multi-slice HRMS-CTA in pediatric patients with congenital heart defects as well as with acquired cardiac diseases in the Slovakia.

*Surveillance***Adult obesity at the beginning of the 21st century: epidemiology, pathophysiology and health risk**

Ginter E, Simko V 224
 The increase of obesity prevalence observed in the 20th century continues until present and it appears this trend will further continue in almost all countries in the world. Contemporary prevalence of adult obesity is very high in USA (33 % in both gender), in oil-rich Arabian countries (30 % in males, 40 % in females) and in European Union (up to 25 % in both gender). The aim of contemporary research is to understand the molecular and neural systems which the body uses to regulate its storage of energy in the form of fat and how these systems can become unbalanced, leading to obesity.

*Therapy***Determination of the Centre of Gravity in the methodology of kinesiotherapy for osteoporotic patients**

Wendlova J 231
 The importance of determining the position of the gravity centre in different postures of a trainee should not be underestimated, as it belongs to the basic principles in the development of methodology of kinesiotherapy for both healthy and ill people.

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 Human interest in negation dates back to thousands of years ago and concerns not only Linguistics, Logic, Psychology, and Mathematics. A lot of everyday words have negative meaning expressed by means of negative prefixes. Such type of negation is called word, or affixal negation.

*Short Communications***Glucose transporter type 1 (GLUT-1) deficiency**

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