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

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 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**

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*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**

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 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**

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

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