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*Experimental Studies***In vitro reactivity of urinary bladder smooth muscle in rabbits influenced by xanthine derivatives**

Mokry J, Nosalova G 91
Caffeine and theophylline significantly decreased the reactivity of urinary bladder smooth muscle in guinea pigs to acetylcholine. By comparing the influence of aminophylline we can conclude, that caffeine as well as theophylline caused significantly stronger decrease of the reactivity to acetylcholine than aminophylline only in lower concentration.

Dexamethasone treatment improved lung functions in meconium-instilled rabbits, but influenced cardiovascular variables

Mokra D, Calkovska A, Tonhajzerova I, Petraskova M, Bulikova J, Redfors B 95
Single and repetitive dexamethasone administration enhanced gas exchange and reduced right-to-left pulmonary shunts, central venous pressure, and lung edema in meconium-instilled rabbits, with more pronounced improvement in some parameters observed after two doses of dexamethasone. However, adverse effects on cardiovascular variables were found, especially when dexamethasone was administered repetitively.

*Morphological Studies***Comparison of collagen subtype I and III presence in varicose and non-varicose vein walls**

Haviarova Z, Janega P, Durdik S, Kovac P, Mraz P, Stvrtinova V 102
Exact cause of primary lower limbs varicose veins is still unclear. Alterations in collagen subtype patterns should be responsible for higher venous wall dilatibility. We found a statistically significant difference in collagen subtype I/III ratio between groups of varicose and healthy veins.

The microscopical structure of the hippocampus in the rat

El Falougy H, Kubikova E, Benuska J 106
The aim of this work was to study the rat's hippocampal formation by applying the light microscopic methods. The histological methods used to explore this region of the rat's brain were the Nissl technique, the Bielschowsky block impregnation method and the rapid Golgi technique.

*Clinical Studies***The epidural postoperative analgesia after a major urological procedures – a comparison of trimecaine and morphine to bupivacaine and fentanyl**

Dostalova V, Visnovsky P, Dostal P 111
We compared the analgesic potency and side effects of epidural combination trimecaine with morphine and bupivacaine with fentanyl in postoperative analgesia after a major urological surgery in a prospective randomised study. The combination of epidural trimecaine with morphine provided a superior analgesia with fewer side effects.

Blood pressure prior to cardioversion predicts a conversion to sinus rhythm in patients with atrial fibrillation

Kaluzay J, Ferencik M, Mardiakova K, Remisova S 116
We evaluated the effect of BP prior to the cardioversion on the restoration of sinus rhythm. The mean arterial pressure was lower in a group of patients with a successful cardioversion (97±15 vs 104±10 mmHg, p=0.02). BP (adjusted OR 3.2, 95 % CI 1.2–8.2) and concurrent antiarrhythmic treatment (adjusted OR 3.3, 95 % CI 1.3–8.0) were the only predictors of a successful cardioversion.

Surgical treatment of primary hyperparathyroidism

Calkovsky V, Hajtman A 121
The authors retrospectively analyze the history, diagnostic procedures, extent and success of surgical treatment, and possible com-

plications in patients with primary hyperparathyroidism treated between 1999–2006 at Clinic of Otorhinolaryngology and Head and Neck Surgery JFM CU and FH in Martin. They discuss their own findings in the context of literature data.

Autoimmune thyroid diseases in patients with diabetes mellitus

Schroner Z, Lazurova I, Petrovicova J 125
The aim of the study was to determine the incidence of autoimmune thyroid diseases (AIT) in the different groups of patients with DM (DM type 1 – classical form, DM type 1 – subtype LADA, DM type 2) and compare the incidence of AIT among the groups as well as to the control group of non-diabetics. We also focused our attention on the factors that influence the risk of thyroid diseases incidence in diabetics.

Pneumococcal meningitis – comparison of therapy and vaccination costs

Madar R, Malechova L, Baska T 130
The treatment cost associated with pneumococcal meningitis in 156 patients reached 22,180,080 CZK (Czech Crowns). That would enable 88,337 people to be vaccinated against this disease. Pneumococcal vaccination was 566 times cheaper compared to the average cost of treatment for one invasive pneumococcal meningitis case.

*Clinical Survey***Antithrombotic treatment in patients with atrial fibrillation as a risk factor of stroke**

Momen Yaghy, Murin J, Pernicky M, Pekarovicova Z, Mikes P 133
High-quality management of anticoagulation can be achieved in usual clinical care. These insights have important implications for the care of individual patients and more generally for public health. Future research is needed to specify the risk of stroke and hemorrhage among patients with AF better, particularly among older individuals, to optimize use of antithrombotic agents, and to define the role of recently developed antithrombotic drugs and invasive nondrug approaches.

*Case Reports***Clinical changes in “true” hobnail hemangioma during menstruation**

Fernandez-Flores A, A Manjon J, Campo F 141
Presented case meets the criteria of HH in a 34-year-old woman. The lesion presented as a reddish papule on her left hip. It changed periodically during menstruation and the changes included. The biopsy showed the characteristics of a typical HH with moderate iron deposits.

Acute normovolemic haemodilution for management of blood loss during radical prostatectomy

Gal R 144
The author used acute normovolemic hemodilution (ANH) as a technique of autologous blood procurement in patients scheduled for radical prostatectomy. 15 patients undergoing radical prostatectomy were enrolled in our study. One unit of allogeneic blood was transfused in 2 patients only. This study demonstrated the effectiveness and safety of ANH as a method for avoiding the allogeneic blood transfusion in patients undergoing radical prostatectomy.

*Letter to Editor***Gender effect on hepatocellular carcinoma**

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*Short Communication***Low capacity urinary bladder and its recovery after kidney transplantation**

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First experience with photoselective vaporization of the prostate in the treatment of high-risk patients receiving antiaggregant therapy

Hoffmann J, Blasko M, Breza J 147