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Clinical Studies

The thymus: picture review of human thymus prenatal development

Varga I, Pospisilova V, Jablonska-Mestanova V, Galfiova P, Polak S 368

The thymus is derived from pharyngeal region; a region from which, in case of aquatic vertebrates, the gills develop. According to the classical hypothesis, the epithelial thymus stroma of human embryos is derived from the endodermal cells of the left and right ventral parts of the third pharyngeal pouches. But a close contact of the third pharyngeal pouch with its corresponding third pharyngeal clefts ectoderm plays an important role.

2D:4D finger ratio in Slovak Autism Spectrum Disorder population

Krajmer P, Spajdel M, Kubranska A, Ostatnikova D 377

Ratio of second and fourth digit (2D:4D) is usually used as a proxy for prenatal testosterone. In this study we measured 2D:4D in boys with ASD and in control boys. We found that the 2D:4D in ASD boys were lower than the ratio in control boys.

Comparison of alfentanil and remifentanil infusions in combination with propofol for the outpatient extra-corporeal shock wave lithotripsy

Sizlan A, Cekmen N, Bedir S, Yanarates O, Ozhan MO, Cosar A 380

The aim of this study is to compare the efficiency of propofol+remifentanil to propofol+alfentanil in reducing pain in patients with urinary system stones undergoing outpatient Extracorporeal Shock Wave Lithotripsy (ESWL). The values at pre-induction and post-induction in each group were statistically different but difference did not exist between the PR and PA groups. We concluded that both methods may be successfully used for patients undergoing ESWL.

The role of cervical thymectomy in surgical treatment of secondary hyperparathyroidism

Uludag M, Yetkin G, Citgez B, Ozguven BY, Cengiz AN, Ozsahin H, Isgor A 385

We aimed to investigate the frequency of parathyroid glands located in the thymus of renal hyperparathyroidism. In 13 of 25 (52%) patients, at least one parathyroid gland was found in the thymus. We conclude that thymectomy should be considered a routine part of treatment of secondary hyperparathyroidism.

Systemic therapy of psoriasis: methotrexate

Kozub P, Simaljakova M 390

Methotrexate is the first line therapy for the treatment of moderate to severe psoriasis and psoriatic arthritis all over the world. It has immunosuppressive and anti-inflammatory effects. If we want to use it, we have to know its mechanism of action and also its possible toxicity and how to cope with it.

Solitary intrathyroid metastasis of renal cancer

Calkovsky V, Szepe P, Hajtman A 395

Around 1 % of all clinically detectable thyroid cancers are of metastatic origin. The most common primary sites are tumors of kidneys, breast, lungs and gastrointestinal system, and melanomas. The authors present a patient with solitary thyroid metastasis from renal clear cell carcinoma after 31 and 11 years after nephrectomy.

Value of biomarker-based diagnostic test in differential diagnosis of hemorrhagic-ischemic stroke

Kavalci C, Genchallac H, Durukan P, Cevik Y 398

Stroke is an emergency which threatens life and the third leading cause of death in developed countries and the leading cause of long-term disability. By means of this study, it was aimed to evaluate the position of triage stroke panel in differential diagnosis of acute hemorrhagic stroke and ischemic stroke and subtypes of ischemic stroke. A total of 100 consecutive patients with a diagnosis of stroke were evaluated. Of these, 29 patients had brain hemorrhages on the computed tomography scan performed the Emergency Department, 71 patients had ischemic stroke. It was observed that the intercept obtained as a result of jointly evaluating BNP, D-dimer, MMP9 and S100b is more important in differential diagnosis.

Obesity paradox and chronic kidney disease

Valocikova I, Valocik G, Kristofova B, Druzbacka L 402

The aim of our retrospective study was to identify how BMI is associated with renal and cardiac functions. In our group of 93 patients with chronic kidney disease in different stages of chronic renal failure, we have proved no adverse effect of obesity on cardiac or renal function.

Case Report

A spontaneous isolated dissection of the external iliac artery in a roofer

Sedivy P, El Samman K, Slais M, Abtova E 407

41-year-old roofer experienced an isolated spontaneous dissection of the external iliac artery following occupational overexertion. Differential diagnosis excluded all connective tissue and arterial wall disorders.

Reviews

Effect of irrigating solutions in endodontic therapy

Kovac J, Kovac D 410

The primary goal of endodontic therapy is the reduction or elimination of micro-organisms and their by-products from the root canal system. Although a number of instrumentation and irrigation techniques exist, debris is often left behind in the root canal system, therefore proper canal cleaning, shaping and irrigation is essential to significantly reduce and sometimes eliminate bacteria from canals.

Oral manifestations of diabetes mellitus and influences of periodontological treatment on diabetes mellitus

Straka M 416

Diabetes mellitus (DM) is one of the most serious diseases of metabolism. Long-term consequences of hyperglycemia are very heterogeneous, and affect practically all tissues and organs of organism. Classical signs and symptoms of DM are polyphagia, polyuria, polydipsia, physical weakness, and decreased immunity against infections. Untreated and fully developed DM results in numerous complications, of which the most serious include nephropathies, retinopathies, myopathies, neuropathies, cardiovascular diseases, bad wound healing and disorders of microvasculature and macrovasculature. Oral manifestations of DM are of different types and they affect various tissues of this region.

