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*Experimental Study***New end-to-end microvascular anastomosis with geometrically adaptable ends technique: an experimental study on rats**

Demiralp CO, Serel S, Zeyrek T, Demirseren ME, Ergun H, Yormuk E ..... 483

The aim of this study was to develop an effective arterial anastomosis model with a high patency rate and low operation time. We introduced a new end-to-end microvascular anastomosis with geometrically adaptable ends. We believe that this new "Geometrically Adaptable Ends Technique" is faster, easier to perform and a reliable method with patency and flow characteristics similar to those of the conventional end-to-end anastomoses.

*Surveillance***Home care in Slovakia**

Lezovic M, Taragelova B, Beresova M ..... 488

The need of complex home care in Slovakia has an increasing trend both for clients/patients and for healthcare workers. Inquiries show that as many as 90% of citizens prefer to have health and social care provided within their own home settings. As old age is associated with advanced stages of chronic diseases requiring treatment in form of follow-up and nursing, the support of complex home care development in Slovakia is of great importance. In 2008, the home nursing care expenditures in Slovakia amounted to EUR 9.3 million.

*Clinical Studies***Anthropometric risk factors of atherosclerosis: Differences between urban and rural East-Slovakian children and adolescents**

Hujova Z, Lesniakova M ..... 491

Higher presence of obesity, hypertension, poor lifestyle and higher means of WHR were found in East-Slovakian urban children and adolescents when compared to rural participants. WHR was significantly connected with stress in rural subjects while diastolic BP was associated with physical inactivity in urban probands ( $p < 0.05$ ) and diastolic BP correlated with stress in both ( $p < 0.001$ ).

**Postoperative intrathecal analgesia for primary total hip arthroplasty - comparative clinical examination of two different small doses of morphium hydrochloride**

Damevski V, Damevska G, Palasevska L, Nojkov O ..... 497

In total hip arthroplasty, several techniques for postoperative analgesia can be used. In this study, we examined analgesia and side effects of intrathecal morphium hydrochloride (MCh) after primary total hip arthroplasty in small doses, namely 0.05 mg and 0.1 mg. Intrathecal usage of 0.05 mg and 0.1 mg of MCh provides a long-lasting postoperative analgesia. It is a practical method to be provided after primary total hip arthroplasty. The efficacy of 0.1 mg of MCh is greater compared to that of 0.05 mg of MCh. These doses of MCh do not cause respiratory depression but cause nausea, vomiting and itching.

**Results of early surgical treatment of intra-articular complex fractures of the humerus in adults**

Kilicarslan K, Bektaser B, Ucguder A, Dogan M, Ugurlu M, Yildirim H ..... 501

The authors present their results for intra-articular fractures of the elbow which we have treated with early restoration of joint combined with the earliest possible motion. We believe that early (first 48 hours) surgical osteosynthesis with rigid fixation of

intra-articular humerus fractures combined with postoperative early rehabilitation gives excellent results.

**Importance of magnetic resonance imaging in patients with fibrocystic changes**

Kiyak G, Asik E, Yazgan A ..... 506

A proper detection of atypical epithelial hyperplasia (component of FCC) without missing the coexistent malign disease is the main problem in evaluating the FCC-affected patients. For some patients, it is not enough to use only mammography and ultrasonography in pursuit or decision biopsy. Magnetic resonance imaging (MRI) may be important in these patients. Nevertheless, the MRI features of FCC are not clearly known because there are very few studies specifically focused on FCC. Studies reporting on MRI of breast fibrocystic changes are very scarce and their MRI findings are not clearly known. The aim of this study was to determine the MRI characteristics of fibrocystic changes.

**Elevated serum thymidine kinase is associated with gastric adenocarcinoma**

Kemik O, Kemik AS, Purisa S, Tuzun S ..... 510

Thymidine kinase (TK) plays an essential role in the processing of thymidine within the cell and therefore it is an important marker of proliferation, particularly in tumor cells. The aim of our study was to determine the diagnostic and prognostic importance of TK measurement in gastric adenocarcinoma. The serum level of TK was measured in 72 patients with gastric adenocarcinoma. Serum levels of TK were significantly elevated in gastric adenocarcinoma in comparison with healthy individuals.

**The comparison of the effects of T-piece and CPAP on hemodynamic parameters, arterial blood gases and success of weaning**

Cekmen N, Erdemli O ..... 512

In a prospective, randomized, controlled trial, 40 consecutive patients requiring mechanically ventilation in our 8-bed adult general intensive care unit (ICU) for  $> 48$  hrs were considered eligible for this study. Patients were randomly divided into two groups. At the beginning of the weaning, duration of extubation and after 48 hours of extubation the arterial blood samples were taken for blood gases analysis, also the mean arterial pressure and heart rate were recorded. 40 patients in the ICU were included in the study.

**Body mass index percentile curves for predominantly breastfed children aged 0-2 years from Ankara, Turkey**

Halisdemir N, Colak C, Camurdan AD, Ergocen S, Sahin F, Elhan AH ..... 517

The current study presents percentile curves for BMI values in predominantly breastfed Turkish children aged 0 to 2 years living in Ankara, Turkey. To our knowledge, this is the first study considering BMI percentiles for predominantly breastfed Turkish children aged 0-2 years. However, WHO multicenter growth reference study curves can be used until constructing multicenter BMI reference curves representing Turkey.

**Clinicopathologic characteristics and BRCA-1/BRCA-2 mutations of Turkish patients with breast cancer**

Aydin F, Akagun T, Yildiz B, Fidan E, Ozdemir F, Kavgaci H ..... 521

BRCA-1 and BRCA-2 are two major susceptibility genes for breast cancer. Positivity rates of BRCA-1 and BRCA-2 gene

mutations may vary according to the characteristics of the patient groups as well as the ethnic and genetic features of the screened population. This is the first study where MLPA was used to screen BRCA-1 and BRCA-2 mutations in Turkish population. More comprehensive studies are needed.

*Case Reports*

**Our experience with McKusick-Kaufman syndrome patients**

Sonmez K, Turkyilmaz Z, Karabulut R, Turan O, Esra Onal E, Aslan D, Basaklar AC ..... 524

McKusick-Kaufman syndrome (MKKS) is a rare autosomal recessive disorder. Less than one hundred cases have been reported in the English literature to date. We report three different aged children with a large hydrometrocolpos and postaxial polydactyl. All MKKS cases should be re-evaluated for Retinitis pigmentosa, other signs of BBS and for disorders that may worsen with time.

**A memantin HCL intoxication responsive to plasmapheresis therapy**

Cekmen N, Bedel P, Erdemli O ..... 527

Memantin HCL (Ebixa®) is a drug which antagonizes the effects of N-methyl-D-aspartat receptors and which is used for the treatment of acute Alzheimer patients. Plasmapheresis is a

method of cleaning non-specific extracorporeal blood and it is applied in many immunologic and toxicologic diseases. As a result of the sixth plasmapheresis the findings were normal and that is why she was discharged from the hospital. Plasmapheresis should be taken into consideration in case of drug overdose or high doses of plasmatic proteinous drug toxicities.

**Urethral stricture in adult as a consequence of childhood hypospadias repair**

Moniruzzaman M, Faruquzzaman, Mohiuddin T ..... 530

Adult patients with urethral stricture after childhood hypospadias surgeries are infrequently discussed in the literature. We report our experience in treating such patients. A retrospective chart review was performed from 2004 through 2007 in Urology Department of Dhaka Medical College Hospital by using the convenient type of purposive sampling.