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*Experimental Study***Adverse effects of the high tidal volume during mechanical ventilation of normal lung in pigs**

Kobr J, Kuntscher V, Treska V, Molacek, J, Vobruba V, Fremuth J, Racek J, Trefil L, Kocova J 45
 The study demonstrated that a high tidal volume during mechanical lung ventilation with permanent positive pressure after 120 minutes induced very important morphological and functional lung changes that unfavourably influenced blood circulation, reduced cardiac output and induced a systemic inflammatory reaction.

*Clinical Studies***Relation of various degrees of body mass index to systolic and diastolic dysfunctions**

Valocik G, Mitro P, Zapachova J, Majercak I, Mudrakova K 52
 To determine the relation between obesity and left ventricular function, we evaluated the association between body mass index and left ventricular systolic and diastolic function assessed by echocardiography in 260 patients. We found the strongest association of body mass index to left ventricular mass and its indexed value. There was no relation between obesity and systolic and diastolic dysfunction.

Evaluation of nutritional risk on admission to the general surgery department

Gündogdu Haldun, Ersoy Eren, Aktimur Recep, Kulacoglu Hakan, Ozdogan Mehmet, Ozturk Vedat, Acar Tanju 57
 Patients, especially the ones having malignancy, admitted to the General Surgery departments, are under nutritional risk. NRS-2002 is a new method to evaluate nutritional risk which is easy to apply and clear to evaluate. It should be applied to all patients routinely during admittance and periodically as long as they stay at the hospital.

Do we really apply fast-track surgery?

Zonca P, Stigler J, Maly T, Neoral C, Hajek M, Stiglerova S 61
 The perioperative care is characterized by a range of trussing traditions. Fast-track surgery optimizes the perioperative care. It is a safe method according to the trials. The implementation of single fast-track surgery factors is very slow. The interest and motivation of patients is important.

Mild hypothermia for intracranial aneurysm surgery

Gal R, Smrcka M 66
 In our study we used mild hypothermia as neuroprotective method during intracranial aneurysm surgery. When compared with similar group of patients, who underwent surgery in 1998 to 2002, where good treatment results were achieved in 80 %, final good neurological treatment results increased statistically significantly by 12 % due to managed hypothermia as well.

*Case Reports***Accidental detection of salpinx carcinoma after omphalocele repair**

Iavazzo C, Vorgias G, Kalinoglou N 71
 Carcinoma of the fallopian tube is a rare disease accounting for <1 % of all gynecologic malignancies. Between 9 to 14 % of cases are incidental findings during the work-up or exploratory laparotomy. A review of the literature regarding predisposing factors, histology, clinical and ultrasound appearance, treatment as well as survival rates is also presented.

Multiple supernumerary muscles of the arm and its clinical significance

Soubhagya R. Nayak, Ashwin Krishnamurthy, Latha V. Prabhu, Jiji PJ, Lakshmi Ramanathan, Savinaya Kumar 74
 During routine cadaveric dissection of the flexor compartment of the right arm, multiple supernumerary muscles were observed in a 56-year-old male cadaver. There were three supernumerary muscles took taking origin independently from the humerus distally to the insertion of coracobrachialis muscle. The clinical significance of the above variations is discussed.

An anatomical insight into the third head of biceps brachii muscle

Hitendra Kumar, Srijit Das, Gayatri Rath 76
 The study revealed that the incidence of third head of biceps brachii may be approximately 3.33 % but larger studies are needed to confirm this fact. Unless symptomatic, the third head of biceps brachii may not be detected in clinical studies. The normal and abnormal anatomy of the upper arm is clinically important for surgeons and clinicians and also for academic purpose.

Cognitive impairment and epilepsy seizure caused by hypoparathyroidism

Titlic M, Tonkic A, Jukic I, Filipovic-Grcic P, Kolic K ... 79
 The authors report a 46-years-old man with idiopathic hypoparathyroidism who presented with gradually cognitive impairment and generalized tonic clonic epilepsy. Computed tomography (CT) and magnetic resonance imaging (MRI) of brain showed calcification in the basal ganglia, thalamus and cerebral white matter.

*Debate and Education***Cross-cultural medical education and training**

Reitmanova S 82
 Cross-cultural medical education and training is the most appropriate response to health requirements in the current world of globalization, migration and free market economy. This article explains the background to immigrant health issues and suggests the directions for education at medical schools.