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*Topical Review***History, anatomical nomenclature, comparative anatomy and functions of the hippocampal formation**

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The complex structures in the cerebral hemispheres is included under one term, the limbic system. Because of its unique structure, the hippocampus is a conspicuous part of the limbic system. In this work authors present a review of the history, anatomical nomenclature, comparative anatomy and functions of the hippocampus.

*Morphological Study***Dimensions of the Triangle of Koch**

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Dimensions of the triangle of Koch varied among the patients. The aim of this study was to present the dimensions of the triangle, and to compare the data obtained directly by post mortal measurement, using two different methods, and indirectly using mathematic formulas.

*Clinical Studies***The outcome, working ability and psychic changes after traumatic brain injury**

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The article presents evaluation of 52 patients with severe traumatic brain injuries. The survivals were subsequently examined in order to determinate the severity of their objective neurological and psychological problems. The follow-up of cognitive disorders revealed the prevalence of neurological impairment. Both are responsible for complicated resocialization of these patients including very low working ability.

**The use of controlled mild hypothermia and immune system status in patients with severe brain injury**

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Severe brain injuries pose one of the most important problems on our health care because of their high morbidity and mortality. Intensive treatment of intracranial hypertension fundamentally affects results of our treatment (Glasgow Outcome Score). The application of controlled mild hypothermia doesn't escalate the occurrence of extra cranial inflammatory complications after severe brain injury.

*Computer Modeling***Protein structure and dynamics determined by protein modeling combined with spectroscopic techniques**

Lansky Z, Kubala M, Varga F, Kolacna L, Amler E ..... 118

Beside of the protein crystals, another attractive option in protein structure analysis has recently appeared: computer modeling of the protein structure based on homology and similarity with proteins of already known structures.

*Debate and Education***Asserting Bologna Declaration in restructuring of school system at Comenius University Medical School Bratislava**

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Asserting Bologna Declaration into university education is a long-term and challenging process. New features have to be asserted sensitively in order to develop school system and to strengthen the baseline for Declaration. Slovakia has started the restructuring of university system and study programs undergoing the process of accreditation.

**The role of medical physics in the scheme of diagnostic and therapeutic processes by keeping safety and hygienic regulations**

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According to Standards of European Union the pregradual education should tend toward preparation of multidisciplinary working teams that can manage the health service using principles of evidence-based medicine, nowadays. Medical Physics and its teaching at universities and schools of medicine provides the most effective tolls to improve the quality of medical care in the future.

**The "False friendship" of some medical terms in English-Slovak and Slovak-English translation**

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*Short Communication***Effective management of hospitalized patients – established role of hospitalists in the USA.**

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