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*Review***Modulatory effect of monosodium glutamate on rat thymocyte proliferation and apoptosis**

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By using flow-cytometric analysis, we examined the effect of monosodium glutamate (MSG) on rat thymocyte proliferation, apoptosis and expression of Bcl-2 and Bax protein. MSG decreased thymocyte proliferation and increased apoptosis rate. These findings may, in part, result from down regulation of Bcl-2 protein and modulated Bcl-2/Bax protein ratio.

*Clinical Studies***Radiofrequency coagulation: a new option for early grade bleeding hemorrhoids**

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The treatment of hemorrhoids has undergone significant changes after introduction of new techniques during last years. Radiofrequency coagulation is a new approach for treating grade I and II hemorrhoids. In this procedure, the hemorrhoidal tissue is coagulated by a high frequency radio wave. The author describes his experience using this new technique.

**Why does depression develop in complicated osteoporosis?**

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We recommend to use questionnaires No. 1 and 2 in female patients with acute painful vertebrae fractures to select patients with the risk of depression development. These patients should be followed more frequently as outpatients and in case of first clinical symptoms of depression should be recommended for special psychiatric care. Early therapy of depression enables to accelerate the mobilisation, rehabilitation and resocialisation of patients, to improve the quality of their lives and to reduce the costs of analgetic treatment of pain, sedatives and rehabilitation.

*Diagnostics***Psychophysiological diagnostics of functional states in Sports Medicine**

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The diagnostics of psychophysiological functions obtains information on individual and typological characteristics of higher neural system, peculiarities of forming and improvement of special experience and indicators of fatigue and hypertension of athletes. The psychophysiological states in higher qualification athletes are characterized by the functional system responsible for the result of sport.

*Debate and Education***Position of information science in the medical and health studies curricula**

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Innovation of both the content and forms of informatics teaching directed on exploitation of technical facilities and methods of information and communication technologies (ICT) in non-informatics universities study programmes and in life-long education is still actual today. The teaching of Information science and corresponding subjects represents small but important part of medical and health studies curricula at all medical faculties in Slovakia.

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