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«Actual problems of clinical and  
theoretical medicine»***

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***«Actual Problems Of Clinical And  
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parameters, which include the definition of partial oxygen tension and carbon dioxide in arterial blood, its acidity et al., which is quite objective and characterize four degrees of severity level ARI.

**Conclusions.** Forensic-medical evaluation of injuries DRS, which belongs to dangerous for a life,

especially with the emergence of ARI has some difficulties. Usage at forensic-medical examination of well-defined clinical, instrumental and laboratory signs of ARI, increase objectification of expert conclusion and help avoid mistakes at determining the severity level of physical injuries.

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**THE EFFECT OF VINBORON ON THE EXPRESSION PROCESSES OF APOPTOSIS IN GASTRIC MUCOSA WITH IBUPROFEN-INDUCED GASTROPATHY IN RATS**

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**Introduction.** Nonsteroidal anti-inflammatory drugs (NSAIDs) is the most popular for the treatment of a variety of diseases. However, their use can cause serious complications in the gastrointestinal tract. To identify the specific lesions of the stomach, associated with the use of NSAIDs in 1986 S.H. Roth suggested the term "NSAID gastropathy." From the literature it is known that one of the mechanisms ulcerogenic actions NSAID stands activation of apoptosis of epithelial cells of the gastric mucosa.

**The aim:** to rate according immunohistochemical study effect of ibuprofen (218 mg/kg) and its combination with vinboron (11 mg/kg) on the apoptosis of epithelial cells of gastric mucosa in the

simulated adjuvant arthritis (AA) in rats.

**Methods & materials.** To assess the pathological changes in gastric mucosa studied experimental material produced from AA rats after administration of ibuprofen and its combination with vinboron. To examine apoptosis in caspase-3 (CPP32) was selected as a marker. The estimation of the expression of caspase-3 in the formulations of the gastric mucosa at 400-fold magnification in similar sections using a semiquantitative scale color intensity evaluation.

**Results.** The study showed that in the monotherapy group ibuprofen number of positively stained cells was more than 60%, which was significantly ( $p < 0,05$ ) higher than in intact rats and Group





combined use of ibuprofen and vinboron in which the figure was 10-30% .

**Conclusions.** Results of the study indicate the ability of ibuprofen act inducer of apoptosis of epithelial cells of the gastric mucosa.

Vinboron gastroprotective effect manifests inhibition of apoptosis process, as evidenced by a decrease in caspase-3 expression in the cytoplasm of epithelial cells of the stomach.

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**COMPENSATION OF CARBOHYDRATE METABOLISM AS A FUNCTION OF PHYSICAL ACTIVITY OF CHILDREN WITH DIABETES MELLITUS**

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**Actuality.** Currently the treatment of diabetes is characterized by the inability of full compensation of the disease using only insulin, even with using the new forms. Approaches to the diet therapy continues to evolve. That's why it is reasonable the search of alternative ways to improve the compensation of diabetes mellitus of children, the special interest is a question about development of optimized physical activity (PA) of this group of sick.

**Purpose of the study:** Explore the indicators of compensation of diabetes mellitus of sick children with different level of PA.

**Materials and methods:** it is examined 37 children with diabetes 1 type 5-18 years old with the duration of disease 1-11 years. The examine includes the level of definition the compensation of carbohydrate metabolism (HbA1c average daily glyceimic, daily variation of glycemia), conducting of

survey the people with DM and level defenition of PA with using IPAS. Children were devided to the groups depending on the level of HbA1c with recommendation ESPAD (2009)- 1 gr.HbA1<7,5% (n=7); 2 gr.HbA1-7,5-9% (N=8); 3 gr.HbA1≥ 9% (n=22). For the level of PA the children were devided into groups: 1 group- PA≥ 21 b. (n=7), 2 group-PA=18-20 b. (n=7), 3 group -PA≤ 17b. (n=22). The statistic refinement was performed by using the application Exel and SPSS 17.0.

**Results:** it was found that the carbohydrate metabolism in the group is: HbA1 (9,7± 0,4)% and DG (10,7± 0,5) mmol/L, that confimed that the unsatisfactory compensation of the disease of most patients. With this the group3 with the less level of PA the indicators of diabetes mellitus is the worst: HbA1 - (11,1± 0,5)%, DG (11,3± 0,7) mmol/L compared 1 group (HbA1 - (9,3± 0,5)%; DG - (10,4± 0,6 ) mmol/l , p,0,05. It schould be hoted, the low level of PA



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