

the indicator at the patients with the CKD 1 Stage at the patients in this group.

The Conclusions. It is taken its place the TGF β_1 , VEGF-A, and IL-1 β urinary excretion increase with the CKD progression at the patients with the gouty tubulo-interstitial nephritis.

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THE ANALYSIS OF THE LIVER TISSUE ROTARY PULSE TRAVELING AND MAGNETIC FIELDS

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«Golden Section», that is, division into shares of a 0,618 and 0,382, seen in many publications as normal in the body. Deviation from it as indicating the presence of disease.

This article analyzes the morphological changes in the liver of mice exposed to magnetic fields from the standpoint of the «golden section». The experimental data suggest that the law of the «golden section» is applicable not only in normal conditions, but under severe pathological processes. This indicates the tendency of a biological substance to equilibrium in mature irreversible pathological process.

The purpose of the study. The aim of the study was to analyze the severity of the morphological changes in the liver of mice exposed to magnetic fields of different modes from the standpoint of the «golden section». Reviewed the results of the study of the morphological effects of the control actions extremadamente low-frequency, rotating magnetic fields (EMF) and impulse traveling magnetic fields (IBMP) to mammalian tissue.

Materials and Methods. To verify compliance with the law «golden mean» for a number of indicators or deviation from it was carried out in five groups of laboratory animals:

Group 1 – control group of intact mice;

Group 2 – the experimental group of mice that were exposed to a traveling magnetic field pulse (IBMP) with a pulse duration of 0,5 seconds;

Group 3 – the experimental group of mice that were exposed to a rotating magnetic field (EMF) with a frequency of 6 Hz, the direction of rotation of the field to the right, the magnetic induction 4 mT, combined with an alternating magnetic field (VMF) at 8 Hz, at a value 4 mT magnetic induction;

Group 4 – experimental group of mice that were exposed to an alternating magnetic field (VMF) at 8 Hz when the magnetic induction 4 mT;

Group 5 – the experimental group of mice that were exposed to EMF with a frequency of 6 Hz, the direction of rotation of the field to the right, the

magnetic induction 0,4 mT, combined with an alternating magnetic field (VMF) with a frequency of 8 Hz, the magnetic induction 0,4 mT.

The results of research. Analyze from the standpoint of the «golden section» relations between some morphometric parameters of liver tissue. Analysis were the following parameters: the size of the central vein, the area of the cytoplasm in the area of necrosis and the area of the central vein, the area of necrosis and the area of the central vein as indicators, reflecting the state of hemodynamics at the microcirculatory level in the liver tissue. The values given in Table 1, show that the «golden section» is most characteristic of the fifth group, which has the greatest pathological changes.

The ratio between the area of the cytoplasm in the area of necrosis and the area of the central vein satisfies the law of «golden» for the second (0,410 and 0,590), fourth (0,397 and 0,603) and fifth groups (0,368 and 0,632). The same result is obtained for the ratio between the area of necrosis and the area of the central vein. For the second group, the ratio is 0,389 and 0,611 for the fourth – 0,359 and 0,631, for the fifth – 0,349 and 0,651. The relation between the size of the central veins close to the «golden» numbers for the fifth group (0,595 and 0,605).

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ORGANIZATION FORMS OF PREVENTATIVE WORK IN STOMATOLOGY

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Numerous studies that have been taken in Russia and abroad have proved convincingly that introduction of preventive methods into practice decreases levels of diseases' spread significantly.

Social questionings have shown that only 21,3% of the respondents had a partially correct opinion on methods and mean of oral cavity hygiene, and the rest 79,2% – incorrect. Majority of respondents (96,7%) have mentioned that before, while buying a toothpaste, they considered a lower price rather its characteristics. No one of the questioned used dental elixirs of gels.

65,0% of the questioned brushed their teeth regularly two times a day, however, only 81,3% of the total number of the questioned sent more than 1 minute brushing teeth, instead of recommended 2,5–3 minutes.