IXth International Interdisciplinary Scientific Conference of Young Scientists and medical students «Actual problems of clinical and theoretical medicine»

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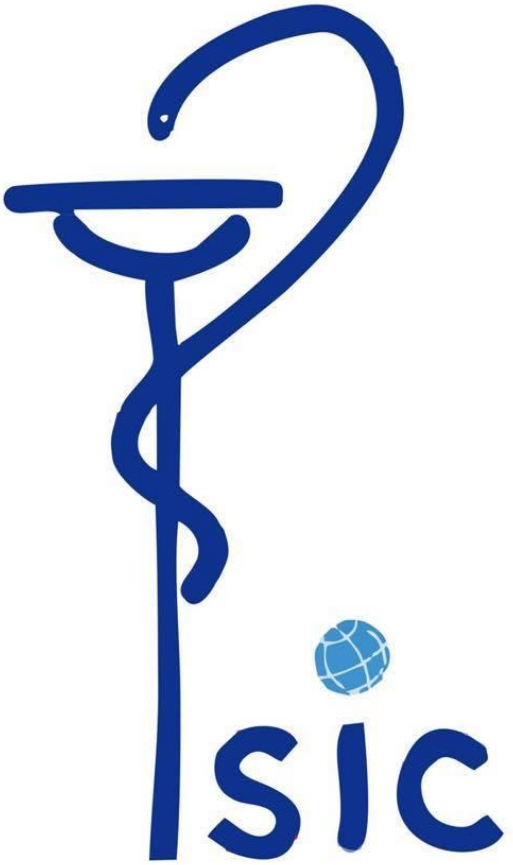

Abstract Book Of IXth International Interdisciplinary Scientific Conference Of Young Scientists And Medical Students

«Actual Problems Of Clinical And Theoretical Medicine»

BIOMEDICAL SCIENCES

reduced, and the plasma membranes - increases. The features ratio of cholesterol/ phospholipids indicate a change in the structure and properties of membranes, which are expressed in different directions change their rigidity and microviscosity even within a single cell, resulting to be violations of its functioning.

Conclusion: various disorders of lipid metabolism, induced by hypermicroelementosis of copper, play an important role in the mechanisms of nephropathy development.

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HOW BRANDS OF DRUGS DEFEND THEIR PRODUCTS AGAINST OF FALSIFICATION?

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Actuality. The number of counterfeit drugs is growing rapidly every year. Therefore, manufacturers are looking for ways to protect their product from possible fraud. Nootropic drugs whose popularity is growing rapidly among young people, are no exception.

Aim. To explore how manufacturers are protected from counterfeiting, and can buyers to identify counterfeit medication.

Matherials and methods. We developed questionnaires, with the help of these questionnaires we interviewed 50 respondents aged 18 to 25 years. The forms included 12 questions.

Results. 40% of respondents are taking nootropics, mainly Nootropil, Glycine. 100% of respondents are aware of the threat of fakes, but only 30% know how to distinguish a fake. 54% of respondents encountered counterfeits. For 72% high price guarantee quality of adrug, while 92% are looking for an alternative to expensive drug (knowing that the analog may be fake). All the basic information about the drug and how it is protected from tampering, the majority of respondents receives from the Internet. The drugs in network marketing buys just 10%, 14% buy drugs with discount. Relative to glycine and nootropil, manufacturers protect them as follows. On the packages indicate the number of patents, and in the instructions indicate the regimen drug.

Conclusions. We can conclude that modern society knows about the threat of fakes, and many buyers of drugs one way or another are faced with counterfeit drugs. However, there is a tendency of having very low skills to identify the fake drug. We also found mistrust of

respondents to doctors and pharmacists, and a high degree of confidence in the Internet.

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THE INFLUENCE OF ELECTROMAGNETIC RADIATION ON THE LEVEL OF RATS STEROID HORMONES

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Introduction. The low-intensity electromagnetic radiation (EMR) is one of the factors of the environment, that has an adverse impact on the human body, primarily on neuroendocrinal system. At the same time it is known that the fetal organism is extremely sensitive to changes in the maternal endocrine state and to the changes in the environment.

Aim. The wide use of electromagnetic radiators stipulates impossibility of exception of actions of the EMR during pregnancy. In this connection there is a necessity of studying of the impact of the low-intensity EMR of cantimetric range (1-10 cm) on the pregnant individual and on the endocrine state of a fetus.

Materials and methods. The experiment was conducted on Wistar rats. Animals were divided into two groups. The first group of animals was exposed to low-intensity EMR of centimetric range for 4 hours every day during the entire period of pregnancy. The second group (control) were placed under similar conditions to the chamber, but were not exposed to radiation. Posterity of the main and control groups was derived from the experiment at the age of three months. For biochemical study blood serum was taken, after that concentration of corticosterone, estradiol and testosterone was determined by immune-enzyme method.

Results. The influence of the low-intensity electromagnetic radiation on female rats during of a pregnancy is reflected on the level of posterity's corticosterone. The females of the main group have the concentration 862,0 nmol/l, control group has 658,9 nmol/l. The males of the main group have the concentration 1522,5 nmol/l, control group has 617,9 nmol/l. In this way significantly the level of corticosterone is elevated in males. The examination of sex hormones level in blood serum of experimental animals is detected the reduction of estradiol level in males (control – 1,19 nmol/l, experiment – 0,21 nmol/l) and females (control – 1,89