

Conclusion. Based on the results of this analysis, could be concluded that kvass has a lot of benefits the human body. It has a pleasant refreshing taste, improves metabolism, and has a good effect on the cardiovascular system. Kvass has excellent taste properties; he quenches thirst due to the content of acid in it – milk and part of the vinegar; has a high energy value, promotes digestion due to the fact that it contains carbon dioxide, which facilitates the digestion of food, its absorption and increases appetite.

STUDY OF SOLVING THE PROBLEM DRUG ADDICTION

Orlova V.V., Kaliuzhnaia O.S.

Scientific supervisor: prof. Strelnikov L.S.

National University of Pharmacy, Kharkiv, Ukraine

Ohdada22@gmail.com

Introduction. Nowadays, the problem of drug addiction is very acute for society. Addiction, which develops in one or another individual, is the result of the influence of a number of factors, both biological and psychological.

Drug addiction is a social phenomenon, as well as the worst disease of most countries. Drugs are substances that not only harm human health, but quickly and irreversibly destroy a person's identity. For many years, scientists all over the world have been trying to find a solution to this problem, which is one of the most urgent, both for health care and for society as a whole.

Aim. The study of new methods of modern medicine to deal and further eliminate drug addiction among society.

Materials and methods. Thanks to research of the American microbiologists, the problem of drug addiction has been solved. With the help of an adeno-associated virus, a vaccine has been created that makes the human body immune to narcotic substances. In turn, it should be noted that this virus does not pose a threat to human health. It is responsible for the transfer of genes that synthesize a protein that interferes with the action of drug.

Testing of vaccines was not conducted in humans. The influence of the preparation has a physiological effect, not a psychological one, as it was before. In this situation, the virus acts as a "messenger" which delivers the active substance to its intended purpose. As a result, the substance simply neutralizes the effect of the drug. The mechanism of action takes place in the following way in the first place the virus detains the drug in the blood, prevents it from entering the brain. Then, a protein that is synthesized under the influence of the virus neutralizes narcotic substances. The process of neutralization itself is carried out under the influence of antibodies produced by this protein.

Results and discussion. As a result of research, it was found out that adeno-associated virus is universal and is characterized by easy penetration into cells, as well as the ability to integrate into their genome. These non-cellular forms of life are widely used in gene therapy. The results of this experiment indicated that one injection of the preparation is enough for the complete rejection of the drug.

Conclusion. Vaccine is universal achievement of medicine and microbiology. Due to its properties it will allow to save mankind from drug addiction once and for all.

THE USE OF NANOTECHNOLOGY IN THE TREATMENT OF CANCER

Rebryk A.A., Strilets O.P.

Scientific supervisor: assoc. prof. Kaliuzhnaia O.S.

National University of Pharmacy, Kharkiv, Ukraine

annarebrik555@gmail.com

Introduction. Over the past few years, scientists have made great progress, working at the micro level. It is believed that nanotechnology will have the greatest success in medicine and have already ensured the delivery of drugs using nanoparticles. Modern nanomedicine has already created a scientific