

# **INVESTIGATION OF TOXIC PROPERTIES OF THE CREAM MADE OF POLYPHENOL CONCENTRATE FROM CULTURAL GRAPE "ENOPSOR" DESIGNED FOR THE TREATMENT OF PSORIASIS**

Umarov Ulugbek, Kramar I.V., Galuzinska L.V.

The National University of Pharmacy, Kharkiv, Ukraine

ljubvgaluzinskaja@rambler.ru

A topical problem of pharmacological correction is a high incidence of severe adverse reactions. One promising approach to solve the problem of anti-inflammatory drugs security may be the usage of some drugs based on biologically active substances of various herbs.

The cream used in the experiment with the polyphenolic concentrate made of grape cultural "Enopsor" is intended to treat a damaged skin so it is necessary to study the possible action of locally irritating and sensitizing properties.

The study of possible locally irritating actions of the studied drug has been carried out using a test "conjunctiva sample", which is a sensitive test and in some cases reveals the reaction of animals to possible irritant properties of the drug. The hyperemia of conjunctiva and cornea has been evaluated with the help of the point scale. The experiments have been carried out on rabbits. To study the sensitizing properties of the substance "Enopsor" we have used the method of skin applications. The experiment has been conducted on guinea pigs.

The experiments to determine an irritating effect of the drug to mucous membranes have been performed on guinea pigs. When applying the cream in a conjunctiva bag of the animals in 5 minutes, 24 hours and 48 hours we have not observed red coloring of conjunctiva and leakage of fluid infiltration of lacrimal ducts, mucous membrane and sclera in the guinea pigs. Cornea is transparent, smooth, without ulceration and turbidity. The conducted experiments have shown that daily applications of the studied cream has not had the any affects to the overall condition of the animals. The guinea pigs have been active, skin has been corresponded to normal, any changes in the form of congestion, infiltration, edema have not been observed. In addition, after applying the cream we have determined the skinfold thickness. During the palpation the pain areas have not been observed, the skinfold thickness has remained unchanged.

Thus, the cream made of polyphenolic concentrate with the cultural grape "Enopsor" does not have any locally irritating effects. The obtained results have also shown that there are no sensitizing actions of "Enopsor».