

STUDY THE POSSIBILITY ALLERGENIC EFFECT OF THE CREAM «DERMATOLIPOIN»

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In NFaU developed a new combination drug in the form of a cream called «Dermalipoin», it consisting from: α -lipoic acid, urea, olive oil, tea tree oil, PEG-400. Cream «Dermalipoin» is intended for the treatment of skin lesions of various origins. In accordance with procedure manual the study of a new drug should include the characteristic of the possible allergenic effect, which was the purpose of our research work.

Materials and methods: the experiments were conducted on 12 white outbred guinea pigs weighing 400-450g. To study the sensitization properties of cream used method of skin application. The animals were divided into 2 groups: 1 group – control group; 2 group – animals which on shaved skin is applied cream «Dermalipoin» once a day. Testing was performed in the 1st and 2nd phase of the skin sensitization. In the 1st phase of the skin sensitization properties were not found. Lack of sensibilization allowed continuing drawing applications to the 2nd phase. On the 20th day the testing was repeated. Noted the skin condition in the 1st hour at the place of application, then after 24 hours and expressed in points: 1 point – a point the weak hyperemia; 2 points – a point marked hyperemia; 3 points – a solid moderate hyperemia; 4 points – a solid intense and infiltration hyperemia. Furthermore, with purpose of assessment the severity of inflammation after resolution application dose was measured thickness skinfold.

Results: researches have shown that daily application of creams do not affect on the general condition of the animals. Guinea pigs were active, from the site of skin was not observed any changes in the form of congestion, infiltration, peeling, edema. Skinfold thickness did not change in the control and the experimental groups.

Thus, all dates indicated an absence of allergenic effect the cream «Dermalipoin» by cutaneous application.