elevated levels of natural antibodies and liver-derived acute phase proteins.

Much has been learned about the regulation of cell activation, growth and function from immunological studies. Burnet's clonal selectional theory designates antigen as the sole immune activator. Bretcher and Cohn recognized first that at least 2 signals are required. This was followed by numerous studies on cell-to-cell interaction within the immune system and led to our current understanding of the importance of cell adhesion molecules and cytokines in cell activation and proliferation. This, coupled with the available information about the mechanisms of action of hormones and neurotransmitters, and of signal transduction and nuclear regulatory pathways paves the way to understanding how higher organisms function in their entire complexity. It is now apparent that the Nervous- Endocrine- and Immune-systems form a systemic regulatory network, which is capable of regulating all aspects of bodily functions in health and disease. This provides new foundations for Biology.

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OCCUPATIONAL DISEASES OF THE SKIN IN CLINIC DERMATOVENEROLOGY

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The purpose of research was definition of prevalence of various forms of skin diseases, revealing of their communication with a trade, studying of structure professional dermatosis in Kursk and Kursk area.

Medical cards of 2108 patients who are taking place on the account in Kursk a regional clinical dermatovenereologic clinic and Kursk the center of professional pathologies during the period with 2003 on 2006 years are analysed. From the general number of patients the diagnosis eczema is put 462 surveyed (22 %), including 3 patients with the diagnosis professional eczema according to the Kursk center of professional pathologies. During research two groups have been generated: working - 201 patient (44 %) and not working (children, students, pensioners) - 261 person (56 %). Among working men have made 82 % (165 patients), women - 18 % (36 person). Desease eczema is marked in the most able-bodied socially active age - from 25 till 50 years. On nosological the group working with the diagnosis eczema is submitted to the form widespread - 92 patients (45,7 %), microbic - 72 (35,8 %), paratraumatic - 22 (10,9 %) and fungoid eczema - 15 person (7,6%). From 92 patients with the diagnosis widespread eczema among working, professional eczema makes 3,26% - 3 patients with trades: the senior leaser of spinning shop, the mason, the mechanic. Surveyed during the labour activity contacted to synthetic fibres for which processing used 30 % an acetic acid, spirit; for washing - antistatic; the laying of a brick, unloading of building materials was carried out; contact to a dust of the mixed structure (cement, quartz, chrome, wood); restoration of details pitches under 3 category of harmful works and on sharpening welding seams by abrasive circle by dry way. The experience of work of patients in adverse working conditions is more than 17 years.

Conclusions: high prevalence eczema - 22 % (462 patients) from all skin diseases is established; among the working population eczema 44 % (201) suffer; professional eczema has made 3,26 % from 92 patients with the diagnosis widespread eczema; desease is marked at able-bodied socially active age of 25-50 years; the experience of work in adverse working conditions is more than 17 years; low detectability is connected to absence in inspection of the sick analysis of labour activity and factors of manufacture.

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PHENIBUT AND ITS DERIVATES INFLUENCE TO THE CELL SECTION OF THE IMMUNE RESPONSE IN THE IMMUNE DEFICIT

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There is a great number of the facts, indicating at the close integration of the central nervous system, its coordination infringement is playing the important role in the development as the neuromental, as the immune disorganize. The great importance is been attaching to the reseaches, touching on the influence of the psychopharmacological medicine at the immune status parameter. In this research we have made the studying of the phenibut and its derivates influence laboratory code RGPU−149, RGPU−150 and RGPU−151 at the organizing of the reaction hypersensitivity of the delayed-model (RHDT) with the experimental immune deficit.

The research has been made with 60 mice of the line CBA mass 18 − 20 g. The animals were distributed on the groups (n = 10); control № 1 – the immunizing animals, receiving phys. solution; control № 2 – immunizing animals with the immunedeficit model (cyclophosphamid (CPh) in the doze 100 mg/kg); experienced groups – the immunizing animals with the immune depression, receiving phenibut inside – intraperitoneal in the therapeutic doze 25 mg/kg and

its derivate: RGPU−149 (47,6 mg/kg), RGPU−150 (49,2 mg/kg) and RGPU−151 (48,1 mg/kg). For phenibut derivates the doze is 1/10 from LD_{50}.

The Results of the study are presented in table.

Table 1. The influence of phenibut and its derivate at RHDT forming in the conditions of the experimental immunesuppression

Animal groups	Control 1: (phys.solution): n = 10	Control 2: CPH n = 10	Experimental I: PHEN1BUT+ CPh n = 10	Experimental 2: RGPU−149+ CPh n = 10	Experimental 3: RGPU−150+ CPh n = 10	Experimental 4: RGPU−151+ CPh n = 10
Index RHDT, M ± m, %	*11,4 ± 0,5*	*8,2 ± 0,6***	*19,7 ± 2,7**	*21,5 ± 1,5****	*31,7 ± 2,4****	*26,5 ± 4,4****

In the course of the carried out tests it was fixed that the single inside intraperitoneal leading cyclophosphamid is conducire to the suppression of the cell reaction of the delayed type (reaction index below control № 1 in 1,5 times). The leading of phenibut and its derivates to animals with the immunesuppression model is accomponing with the stimulating action with the regard to the cell section of the immune reactivity, it reveals itself with the increase of the reaction index RHDT more than 50% not only by comparison with the animals from the control group № 1 ($p<0,05$), but more than 40% with respect to the exponents in the mice groups, receiving «placebo» ($p<0,05$).

So, phenibut and its derivates with the laboratory codes RGPU−149. RGPU−150 and RGPU−151 are removing pharmacoinduced immune deficiency, it is evidence of the immunecorrecting qualities presence. The present conclusion allows to regard the learning substances as the perspective ones as the means of the correction of the neuroimmune pathology.

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INCREASING OF PHAGOCYTES FREE RADICALS ACTIVITY UNDER THE INFLUENCE OF MAGNETOTHERAPY AMONG PATIENTS WITH ISCHEMIC HEART DISEASE

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Nowadays the Ischemic Heart Disease (IHD) gets younger thus this disease used to appear among 50-65-years old people but now it appears among 35-years old people. It could be caused by negative ecological factors, which may lead to both increasing and decreasing free radicals aggression of human blood phagocytes. One of the main parts of heart destruction is an intensification of cardiac hystiocytes' lipids free radicals oxidation, which correlates with its level of destruction and with the level of lipids peroxidation products and antioxidants concentration in the blood plasma (Abramova J.I., Vladimirov U.A.). That is why Red-Ox balance is a very important characteristic for diagnostic and correction. One of the most popular types of correction of different diseases is common magnetic therapy (CMT).

Therefore effectiveness of magnetic treatment was assessed by chemiluminescent analyze. The investigation includes examination of blood samples which were taken from people with IHD both gender (male = 56 and female = 26) age was from 43 to 66 years old. The magnetic field was made by special apparatus "Magnetoturbotron-2" (frequency is equal 10 Hz, intensiveness equals 1 milli Tesla). Course of treatment includes ten everyday and 20-minutes treatments. There were assessed different medical indexes such as quantity of leucocytes and phagocytes. The functional phagocyte activity was estimated by biochemiluminometer.

The investigations show that magnetic field did not increase leukocytosis and did not suppressed phagocytic function. But functional activity of leucocytes have increased and exceeded normal level among 61% of patient moreover it increased during the magnetic treatment. As the result, quantity of patient with normal reactivity of phagocyte decreased. Such kind type of chemiluminescet corresponds to ineffective phagocytosis when reactive types of oxygen are generated out of cells it can be risk of peroxide destruction of the nearest tissues.

Thus magnetic field with the level of magnetic induction 1 milliTesla suitable only for the forming local stress-reaction, but it is not universal strategy of treatment such dangerous diseases as ischemic heart disease. That is why it is necessary to investigate more suitable dose of magnetic induction with the help of