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## The condition of neurodynamic functions and immunosystem in case of shortsightedness of the medium level.

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The aim of our research is to study the condition of neurodynamic functions and immune system of people suffering from acquired shortsightedness of the medium level (minus three dioptries). A group of volunteers has been involved in this research. This group has been divided into two: 1-almost healthy people, 2-people suffering from shortsightedness (the age of volunteers 22-30 years). The diagnosis of shortsightedness has been given by the doctors- specialists of the city Luhansk. With the help, of the device for neurodynamic research the latent periods have been defined: the simple visual sensorimotor reaction (SVSR) at any irritant the reaction of choice 1 from 3 (LPRC<sub>1-3</sub>) and the reaction of choice 2 from 3 (LPRC<sub>2-3</sub>) and also the functional mobility of nervous process has been defined (FMNP). The condition of immunosystem has been estimated according to the data: general quantity of leucocytes, monocytes, neutrophiles, lymphocytes, T-lymphocytes of all subpopulations, B-lymphocytes, concentration of antibodies classes A, M, G.

We have revealed direct positive correlative link between mobility of the main nervous processes and a number of monocytes ( $r=0,7$ ), and also the number T-lymphocytes, to be exact T-suppressors ( $r=0,6$ ).

So, we have found out that at miopia we can observe the reducing of the latent period of the reaction of choice 1 from 3 and increasing of the functional mobility of the nervous processes and also tension of immune system (second immunoimpaired) of the cell component.

### Conclusions.

1. People suffering from miopia of the medium level are observed to have reducing of the latent period the reaction of choice 1-3 and also the improvement of the indexes of the functional mobility of the main nervous processes.
2. Miopia is accompanied the reducing of the absolute quantity of neutrocytes, leucocytes, monocytes, T-lymphocytes in peripheral blood due to T-suppressors, the second immunoimpaired of the cell component appears.
3. Positive correlative link between the indexes of the functional mobility the main nervous processes and quantity of monocytes and lymphocytes, to be exact T-suppressors, has been found out.