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The importance of the article «Assessment of IgG-dependent humoral and cellular immunity in people who have recovered from COVID-19 and in healthy volunteers» presented by a group of authors from scientific organizations of the city of Stavropol is beyond doubt [1]. Indeed, the emergence of COVID-19 has posed challenges for healthcare professionals to diagnose and provide medical care to patients quickly. Currently, numerous research groups throughout the world participate in intensive studies of the clinical and epidemiological characteristics of the disease and the development of new means of its prevention and treatment. One of the challenges before them is the development of vaccines both for the long-term protection of people at high risk of getting COVID-19, such as medical workers and for rapid use in the case of an outbreak [2]. At the same time, it is evident that to assess the immune status of people who have recovered from COVID-19 and those who have been vaccinated, and new diagnostic systems are needed. The article under analysis is devoted precisely to solving this problem: clinical studies of an original test system developed by Stavropol scientists.

Currently, the following vaccines are registered in the Russian Federation for the specific prevention of COVID-19 in adults:

- combined vector vaccine (Gam-COVID-Vac), registration date 11.08.2020;
- combined vector vaccine (Gam-COVID-Vac-Lyo), registration date 25.08.2020;
- vaccine based on peptide antigens (EpiVaccCorona), registration date 13.10.2020. Since January 18, 2021, mass vaccination of the population against COVID-19 is being carried out in the Russian Federation [3].

In preparation for vaccination against COVID-19, laboratory tests for the presence of IgG and IgM immunoglobulins to the SARS-CoV-2 virus are not mandatory. At the same time, people who have positive test results for the presence of IgG and IgM immunoglobulins to the SARS-CoV-2 virus that were obtained independently on the same day are considered to be infected with the new SARS-CoV-2 coronavirus and to prevent possible severe consequences of the disease, medical workers need to take into account the categories of people who currently have contraindications to vaccination: such are pregnant women, children up to the age of 18, people with severe chronic pathologies and autoimmune disorders. The information obtained on the strength of immunity to SARS-CoV-2 in adults [4]; the vaccine rules for organizing the work of medical organizations (or their structural units) and medical workers who carry out vaccination against COVID-19 in adults [4]; the vaccination procedure is described in. The SOP clearly defines the indications and contraindications for the categories of people of different ages.

In typical clinical practice, information on the strength of immunity to SARS-CoV-2 is essential. Therefore, the development of various test systems to obtain data on the strength of immunity to SARS-CoV-2 has begun in Russia. In this regard, of interest for practical medicine are diagnostic ELISA test systems developed by the staff of the Scientific Production Association «Immunotex» (Russia): they make it possible to determine the level of neutralizing IgG in the blood serum and the content of antigen-recognizing receptors of B-lymphocytes of the peripheral blood represented by membrane IgG to SARS-CoV-2.

The diagnostic ELISA test system described in the study [1] allows detecting the levels of blocking IgG in the serum and the content of antigen-recognizing receptors of B-lymphocytes of the peripheral blood represented by IgG to the trimeric S-protein of SARS-CoV-2 in asymptomatic people and in people who believe that they were not infected with Covid-19 [3]. Importantly, this study shows that a decrease in serum IgG to the trimeric S-protein of SARS-CoV-2 does not mean eliminating immunological protection against viral infection. Instead, it can be assumed that repeated contact with the virus will cause the mobilization of memory B-lymphocytes and the production of specific immunoglobulins.

Thus, when organizing vaccination of the populace to ensure their maximum protection against possible infection with the new SARS-CoV-2 coronavirus and to prevent possible severe consequences of the disease, medical workers need to take into account the categories of people who currently have contraindications to vaccination: such are pregnant women, children up to the age of 18, people with severe chronic pathologies and autoimmune disorders. The information obtained on the strength of immunity to SARS-CoV-2 in this category of patients using the developed diagnostic ELISA test system will contribute to the adequate planning of clinical, rehabilitation, and dispensary activities by primary care physicians.