

## Difficult protozoa

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Protozoa (Protozoa) are a life form of unicellular eukaryotic organisms. Their body consists of one cell and functions as an independent organism due to the presence in it of special organelles that perform functions similar to those of individual organs multicellular organisms. A cell of a protozoan organism has an outer membrane, under which most species have a so-called pellicle - a dense elastic membrane. Protozoa reproduce by simple or multiple division, as well as by budding and cyst formation. In the biological cycle of many protozoa, life stages are distinguished: a vegetative (active) form called a trophozoid, and a resting (inactive) form called a cyst.

Perhaps the simplest were among the first inhabitants of our planet. Having come a long way of evolution, they have adapted to live and survive in various conditions, including the human body. This is evidenced by the fact that they have learned to "bypass" the immune system of the human body, penetrate into the human body, remaining almost unnoticed by the immune system, and parasitize in the body for many years.

Protozoal infections are widespread throughout the world, especially in countries with hot climates. That is worth mentioning only one malaria. But this report will talk about protozoal infections of temperate latitudes (giardiasis, toxoplasmosis, trichomoniasis, amebiasis, sarcocystosis, etc.), although this designation is rather arbitrary, due to its widespread distribution.

The ubiquity is explained by the viability of the protozoa in the external environment (cystic forms) and their ability to overcome the body's immune defenses, penetrate into almost any tissue of the body (liver, lungs, brain, eyes, lymph, connective tissue, nerve plexuses, blood vessels, muscles, cartilage, etc.). On average, from 6% to 90% or more people in different regions are infected with at least one of the protozoa species [1].

For example, amoeba cysts remain viable when exposed to disinfectants (chlorine, ozone) at concentrations commonly used in water treatment plants. Therefore, the spread of cysts can occur through drinking water that meets the sanitary norms (standards) for coliform bacteria [2].

Amoebas are capable not only of lysis of intestinal epithelial cells, neutrophils, inhibition of the movement of monocytes and macrophages (due to the production of a specific small peptide), but also specifically block the production of interleukins (IL-1beta and IL-8) by intestinal cells, as a result of which, at the site of introduction of amoebas inhibition of inflammation processes occurs and, as a result, a decrease in the activity of neutrophil migration. The trophozoids of *E. histolytica*, due to their neutral cysteine proteinase, are capable of cleaving human complement (C3), IgA, and IgG, which ultimately provides their effective protection against nonspecific and specific resistance factors of the host organism. It should be noted that amoebas are able to penetrate the capillaries of the intestinal mucosa even in the absence of

significant damage. Thus, the development of extraintestinal amoebic lesions can be observed in patients who consider themselves to be practically healthy [2].

If we add to the above that the life cycles of many protozoa go through intracellular development in cells under conditions of an inadequate immune response, then it becomes obvious how difficult it is to make a reliable diagnosis using conventional clinical methods, especially if there are no visible changes at the organ level. Moreover, the pathogenic effect of some species of protozoa (*Trichomonas* oral, intestinal) has not been established [1, 2].

Invaluable assistance in diagnostics and effective treatment is provided by the equipment of the company "IMEDIS", with the skillful use of which everything falls into place, sometimes "unsolvable" problems disappear. Application of APK "IMEDIS-EXPERT" allows for diagnostics when, in the presence of complaints from a patient, conventional clinical research methods (including MRI) do not "see" the pathology. This gives an indisputable plus to the practicing doctor. According to my observations, more than 95% of pathology at the tissue level, in one way or another, is associated with protozoa.

For example, many "neuralgias", muscle pains, cardiac arrhythmias, "angina pectoris" have disappeared in patients after treatment with exogenous BRT with *Trichomonas* frequencies (F411, E387, E981, H760), sarcocysts (F202) and amoeba frequencies. Pregnancy occurred after the treatment of "infertility" with the use of resonant frequency therapy according to the programs of *Trichomonas*, amoebas, sarcocysts, toxoplasma. And the "adhesions" of the fallopian tubes, visible on ultrasound machines, disappeared after treatment with hookworm frequencies (F 458, F459). Cysts and small neoplasms decrease and "go away" in patients treated with the method of resonant frequency therapy using the above programs in combination with endogenous BRT.

With long-term chronic processes, protozoal infections are accompanied by viral and helminthic burdens. In the absence of competing forms of life, protozoa tend to occupy all vital "niches" of the macroorganism. Therefore, you need to be very careful about the "extermination" of helminths, bacteria, etc. it was noticed that after their departure the cystic forms of protozoa "wake up" earlier, "invisible", which can lead to exacerbation of pathological processes.

According to my data, in more than 85% of cases, protozoal infections are involved in unclear, "problem", "severe" diagnoses, the spread of which in the human body is facilitated by the massive use of antibiotic therapy that is not yet controlled. For example, patient N., 53 years old, who had repeatedly had pneumonia and received massive antibiotic therapy. The patient was examined in several medical institutions, where tuberculosis, oncology, etc. were excluded, but he continued to periodically suffer from pneumonia. After examination by the ART method on the APK "IMEDIS-EXPERT" and the "toxoplasmosis" treated on it, the patient's pneumonia stopped. Follow-up - more than three years.

My practical experience shows that similar examples can be cited for such diseases as: arachnoiditis, neuralgia, multiple sclerosis, convulsive syndromes, autoimmune diseases, ischemic heart disease, disorders

heartfelt rhythm, NDC, bronchitis, pneumonia, dyskinesias ZhVP, hyperbilirubinemia and hepatitis, gastroduodenitis, mastopathy, infertility, pancreatitis, lymphadenopathy, anemia, neoplasms, varicose veins, diabetes mellitus, headaches of unclear etiology, etc.

Almost all of the above diseases are not complete without the participation of protozoa. This does not mean that protozoal infections are to blame for everything. This only means that when the level of diagnostics of clinical medicine rises to the level of diagnostic capabilities of the IMEDIS equipment, and the level of respected "specialists" from medicine rises to the level of a DOCTOR, then many etiologies and pathogenesis of the above diseases will be rewritten, and the DOCTOR will do what he and it is believed - by the restoration of HUMAN HEALTH, and not by the search, disguise and suppression of the symptoms of diseases. Then the commandments of the wise healers of antiquity will triumph: "MEDICA, MENTE, NON MEDICAMENTIS" - heal with your mind, not with medicines, "MEDICE, CURA AEGROTUM, SED NON MORBUM" - DOCTOR, heal not the disease, but the patient!

Conclusions:

1. APK "IMEDIS-EXPERT" allows diagnostics and treatment diseases not recognized by conventional clinical methods, incl. at the preclinical stages of their development.
2. Application of APK "IMEDIS-EXPERT" in daily medical practice allows you to significantly reduce the labor, time and money costs of a doctor, patient and the state, thereby bringing obvious economic benefits.

Literature

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A.V. Makarevich Difficult protozoa //

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