## Bioresonance therapy - mechanisms of therapeutic effect K.G. Khachumova (RSMU, Moscow, Russia)

Each organ and each cell has its own specific spectrum of vibrations, its own specific characteristics of these vibrations (shape and type, as well as frequency (number of vibrations per second)). The maintenance of these oscillations depends on the "quality factor" of the resonator of the organ cell, tissue or organism as a whole [10]. If the "quality factor" of the resonator is broken or absent, incoherent, inadequate, pathological electromagnetic oscillations may occur. In the case when the mechanism of self-regulation and healing existing in the body is not able to destruct these fluctuations, a disease arises. Pathological fluctuations always exist in the body. But the disease manifests itself only when the self-regulation mechanism mentioned above fails. The disease thus manifests itself as a condition in which pathological fluctuations exist for such a long time that they cause destructive reactions and diseases. Based on this fact, F. Morel and E. Rache in 1977 designed an apparatus for bioresonance therapy (BRT).

Bioresonance therapy is a method of information-wave impact on the human body of ultra-low-power electromagnetic radiation in the range of biologically significant frequencies [9].

Previously, it was believed that information in the body is transmitted by humoral and neural pathways. It has now been proven that the infection is transmitted within the body by means of oscillation [2]. During illness, a blockage of information transmission occurs, and BRT makes it possible to restore the flow of energy and the possibility of recovery (9).

From the point of view of biophysics, in a living organism, when its liquid quasicrystalline substance interacts with an external electromagnetic field, interference-related effects are possible [6]. Living things are viewed as oscillators that transmit information through electromagnetic radiation. All living cells, viruses, microbes have electric charges and a dipole arrangement [8]. The imposition of an electromagnetic wave of reverse shape, strength and duration creates a condition that is unfavorable for parasites and their exit from the host's organism [1]. According to F. Morel, BRT should be carried out before the start of any other therapy, as it frees the body from the factors that block the body's energy. It allows you to reduce the intake of drugs when combined with allopathic drugs.

The mechanisms for the realization of the therapeutic effect of BRT are also carried out through the hypothalamus. With prolonged stress, as well as with age, the mechanisms of electromagnetic regulation fail. The hypothalamus becomes immune to signals from the periphery. The connection between the psyche and the body is broken. Thus, the body protects itself from the destructive action of hormones and other substances produced in the hypothalamus, pituitary, pineal gland under the influence of negative emotions.

To limit itself from destruction, the body weakens chemical and

nerve connections between cells and the center of the brain. Drowsiness and apathy appear [2].

Medical research has shown that when the hypothalamus malfunctions, the production of melatonin slows down [1].

Abnormal frequencies promote the production of enzymes that cause cascading destruction in the cells themselves.

With the help of BRT, it is possible to restore disturbed electromagnetic flows between cells and restore the functioning of organs. The effect is realized through the hypothalamic-pituitary system due to the regulation of bioelectric metabolic processes of neurotransmitters. Endorphin and immune systems, endocrine gland activity, improved hemodynamics. As a result, microcirculation, general and peripheral blood circulation are normalized, rheological properties of blood are improved,

anti-inflammatory, desensitizing, sedative effects [4, 5].

Another mechanism of the effect of BRT is the mechanism of the adaptive effect of repeated cycles of therapy [3, 11].

In addition, restoring the broken relationships between organs according to the method of A.A. Hovsepyan, we achieve a targeted effect on the affected organ through the correction of homeostasis processes of all causal and dependent organs [1].

According to A.P. Dubrov, BRT is carried out due to resonance-field effects, helio-geophysical, psychosomatic, through the mechanisms of functional biosymmetry [8].

Thus, the effect of BRT is multifaceted, which is demonstrated by the following clinical examples.

## Clinical example 1

Patient Z., 20 years old. He complained of swelling of the hands, the appearance of ecchymosis, bruises in the chest, shoulders, forearms, maceration of the periungual bed. A dermatologist diagnosed neurodermatitis, prescribed sedative therapy, hormone-containing ointments. According to clinical blood tests, urine, biochemical studies, pathology was not revealed, X-ray examination of the lungs, ultrasound of the abdominal cavity also showed no abnormalities. The study of the immune status revealed

decrease in diabetes3 with an increase in diabetessixteen.

The drugs prescribed by the dermatologist were ineffective, and the patient applied for ART diagnostics. A decrease in the functional activity of the liver, pancreas against the background of helminthic invasion was revealed; Epstein-Barr viruses, cytomegalovirus, strepto- and staphylococci were detected.

Anthelmintic therapy, BRT according to the method of A.A. Hovsepyan, N. Kempe, correction of liver and pancreas function with preparations of "Vitorgan" company. After 2 months, the patient's condition returned to normal, the skin cleared. For 3 months, pigment spots persisted, which after a year ceased to be determined. There were no relapses.

## Clinical example 2

Patient Z., 72 years old. She complained of hearing impairment after a viral infection, coughing, interruptions in the work of the heart. Was observed for a long time in

cardiologist with a diagnosis of ischemic heart disease, hypertension grade II, risk group IV, impaired AV conduction. The last 30 years - chronic bronchitis, during the year - a continuously recurrent course of bronchitis.

When diagnosed by the ART method, a decrease in the functional activity of the bronchi, lungs, heart, and liver. Hyperplastic processes in the bronchi with signs of degeneration, herpes virus, cytomegalovirus, Epstein Barr virus, mycobacterium tuberculosis were tested.

The patient underwent BRT according to A.A. Hovsepyan, treatment with "Sanum", "Vitorgan" preparations, taking into account step-by-step adaptation. Hearing was restored after the first session. Exacerbations of bronchitis and paroxysmal tachycardia were obtained twice during treatment. The treatment continued for a year. Against the background of treatment, the reserves of adaptation increased from low to good, coughing at night does not bother, in the daytime - only to irritants (strong odors, a sharp change in temperature). Hypertension and cardiac arrhythmias are well controlled with allopathic and drainage therapy. Follow-up - 2 years, the patient does not go to the clinic, she comes for a control examination every 3 months.

Thus, BRT makes it possible to select the most effective drugs for treatment with allopathic agents, and to achieve a cure in difficult clinical cases.

## Literature

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K.G. Khachumova Bioresonance therapy - mechanisms of therapeutic effect // XV "- M .:" IMEDIS ", 2009, vol. 1 - pp. 190-195