Clinical and statistical analysis of the frequency of use of fixed EM oscillations in the treatment of diseases with various etiopathogenesis M.Yu. Gotovsky, A.V. Samokhin (Center "IMEDIS", Moscow, Russia)

The modern development of biomedical electronic technology and, in particular, devices for carrying out exogenous bioresonance therapy (ECBRT), allow to effectively treat many diseases using fixed EM oscillations of a certain amplitude and frequency [3, 5, 6].

Recently, special attention has been paid to the problem of exposure to electromagnetic pulses of various frequencies due to the assumed not amplitude, but frequency-dependent nature of information transfer in biological systems.

It is known that the human body and other biological objects are able not only to respond to external influences in a wide range of EM oscillations (from 1-10 Hz to 9-10 Hz and above), but also respond to individual frequencies with strictly defined reactions, while the amplitude signal can be negligible, i.e. lie below the sensory threshold.

Such a selective effect on the biological system, which does not require large energy expenditures for its implementation, but involves the activation of the biological object's own energy resources, is called the resonance effect, which is the basis of the ECBRT methods.

The main advantages of ECBRT are:

- non-invasiveness;
- almost complete absence of contraindications;
- enhancing the action of allopathic and homeopathic medicines;
- the possibility of EM-modification of biologically active substances by the frequencies of bound water, some enzymes and mediators;
- bactericidal, virostatic, fungicidal and anthelmintic effects. More than 13 years of experience in the use of ECBRT in clinical practice allows

highlight the specific and non-specific effects of this type of treatment.

The specific effects of ECBRT are determined by the narrow effect of a strictly defined frequency either on a specific infectious agent or on a very rare form of pathology. From a critical point of view, in terms of the use of highly specialized EM oscillations, especially in the treatment of infectious diseases, it should be noted that even the competent use of new hardware and software complexes to search for the most effective ECBRT modes

takes a lot of time and often puts the doctor in a difficult position. This is due to the fact that for EKBRT of the same infectious disease or a rather rare form of the disease, from 4 to 10 or more EM oscillations can be used, lying in completely different frequency ranges, which differ from each other by 3–5 or more orders of magnitude (1-6).

For example:

- H.R. Clarke (USA) - 76 to 1000 kHz (frequency ranges of fungi, viruses, bacteria, helminths and ticks). Currently online

Several refutations appeared on the Internet, pointing to inadequate ways of choosing these modes and to differences in the results of bacteriostatic action of individual EM oscillations in in vitro and in vivo systems, which casts doubt on the author's data published in Heilung ist moglich - Knaur, 1997- 2004;

- PP Rife (USA) - from 3.5 to 10000 Hz (nosological ECBRT):

- O. Clauss, K. Silling, O. Kollmer (Germany) from 0.1 to 10.0 Hz (the ranges correspond to the physiological frequency spectra of the delta tag - and the lateral component of the alpha rhythms of the brain. Positive clinical effect of this frequency spectrum, apparently, is determined by the influence on the nocioceptive structures of the body and on the diffuse system of endocrine cells);
- P. Mandel (Germany) from 0.3 to 18.0 Hz (induction ECBRT with deltatetaalpha and beta-rhythms of the brain with an emphasis on systemically immanent connections that determine behavioral responses. These frequency ranges are most effective in ECBRT psychosomatic disorders);
- P. Schmidt (Germany) from 10.0 to 100.0 Hz (ECBRT according to the nosological principle with different frequency increments 0.2; 0.3; 0.4; 0.5 and 2.0 Hz);
- V. Ludwig (Germany) from 1.2 to 1000 Hz (EKBRT with predominant allocation of "universal" frequencies 1.2; 73.0; 100.0 Hz);
- P. Nogier (France) the following frequency ranges of EKBRT revealed by means of pulse diagnostics and biolocation: forehead skin and BAP of the anterior part of the earlobe - 146 Hz; the outer part of the ear tragus and the projection zones of the organs of the corresponding BAP - 36.5 Hz; scalp, occiput and BAP of the outer part of the ear tragus -

18.25 Hz; upper part of the auricle, upper and lower limbs - 9.125 Hz; the area of the projection of the BAP of the main visceral organs - 4.56 Hz; subglottic zone of the auricle, the zone of location of auricular BAPs associated with the oral cavity organs, genitals and BAPs of the anterior median meridian - 2.28 Hz;

- E. Gavreau (France) using frequency analyzers, the resonance frequencies of individual organs and tissues were established, for example: the vestibular apparatus - 0.5-13 Hz; organs of vision - 40-100 Hz; a heart
 - 6 Hz; stomach 2-3 Hz; intestines 2-4 Hz;
- I.L. Blinkov (Russia) ECBRT using frequencies of spontaneous bioelectric activity of organs and tissues (SBI);
- V.P. Sidko (Ukraine) use of the universal "cellular" frequency of 50.3 GHz;
- Yu.V. Gotovsky (Russia) the use of APK "IMEDIS-EXPERT", devices "MINI-EXPERT-DT", "MINI-EXPERT-T" in the implementation of structural resonance and ECBR therapy in the frequency range from 0.1 Hz to 15 kHz, creation of a unified database on the use of various EM vibrations in clinical practice.

Clinical and statistical studies carried out by us show that to date, in the EKBRT devices developed by these scientists,

more than 1000 fixed and more than 247 modulated EM frequencies are used, with indications for treatment of about 1500 both fairly rare and most common diseases. Some ranges of EM frequencies were quite often used by various authors in the treatment of not one, but many diseases with completely different etiopathogenesis. These frequency ranges, by analogy with homeopathy, can be considered electromagnetic polychrests.

With the help of statistical applied software packages, we have determined narrow ranges of EM vibrations used in EBRT at least 20 diseases with complex etiopathogenesis.

In the low frequency range corresponding to the hour toham bioelectric activity head brain, heart, blood vessels, internal organs, harmonic I normal - Schumann waves are most often used - 0.1; 1.2; 7.8; 10.0; 20.0; 35.0 Hz.

In the second low-frequency range - 72.0; 73.0; 100; 125; 146.465 Hz. According to electrophysiological studies, this frequency range is the limit for the transmission of electrical impulses along the nerve trunks, fleshy and non-fleshy nerve fibers (the limit is up to 500 Hz).

In the mid-frequency and high-frequency ranges - 727; 787; 800; 802; 880; 1000; 2720; 10000 Hz. This frequency range is believed to be responsible for more subtle interactions at the cellular level.

As follows from the above data, except for the spectra of EM vibrations 0.1; 10.0; 100; 1000 and 10000 Hz (decimal conversion system according to G. Plicht), other spectral regions most often used in EBRT are nonlinear and not subject to a certain law, i.e., transformation or expansion in terms of Fourier series, numbers of Fibonacci series, in terms of E and P numbers, the rule of the "golden ratio". It is likely that in order to find the most effective ECBRT modes, it is necessary to use other principles, for example, the identification of effective EM frequencies using more modern mathematical models. So, for example, using mathematical calculations and

experimental research German scientist G. Müller identifies the following universal frequency ranges: small splits - 34–35 Hz (base frequency), 44; 52; 72; 81; 101; 126; 141; 453 Hz; large splits - 2032; 7291; 9150 Hz.

To optimize the choice of ECBRT regimens, it is important to establish which frequencies should be used first of all in acute and chronic diseases. In this aspect, it is appropriate to refer to the works of the founders of the BRT - F. Morel, H. Brugemann and EKBRT - Yu.V. Gotovsky [1–4]. These studies indicate that lowfrequency EM oscillations, by analogy with the action of low potencies of homeopathic medicines, are most effective in the treatment of acute diseases, medium frequencies are subacute, high frequencies

- chronic.

Clinical and statistical analysis of the frequency of using the above EMoscillations to a greater extent allows us to point out the nonspecific effects of their action associated with a multifaceted effect on systems that provide optimal selfregulation of the body in any form of pathology. According to some studies, this manifests itself in the regulation of the functions of the psychoneuroimmunoendocrine system (PNEI) or functions diffuse endocrine cell system (APUD), namely at levels:

- CNS regulation of the synthesis and secretion of cerebral neuropeptides, antiamnesic, antidepressant and sedative effects;
- endocrine system regulation of the synthesis and secretion of stress hormones (ACTH, prolactin, cortisone, serotonin, adrenaline, etc.); regulation of metabolism (normalization of the ratio in the blood of triglycerides, phospholipids, lowering cholesterol and uric acid levels);
- the immune system an increase in nonspecific immune reactivity and resistance to infectious agents,

restoration of tolerance to autoantigens, oncostatic effect;

- peripheral nervous system - normalization of the metabolism of neurotransmitters (indirectly through the synthesis of dopamine, acetylcholine, GABA, etc.), improvement of the conduction of nerve fibers, ganglionic and antispasmodic effects, normalization of functions cardiovascular systems, detoxification and overall sanogenetic functions.

Despite some versatility of the above frequencies. The choice of it is necessary not to forget about the use of separate frequencies. The choice of the EKBRT frequency is carried out by testing. It is better to carry out therapy with the selected frequency in the "deviation" mode, implemented in the "IMEDIS" "MINI-EXPERT-DT" devices. Frequency deviation allows you to capture the lateral spectra of EM vibrations, which expands the possibilities of therapeutic intervention. For example, treatment with a frequency of 6.2 Hz, used to remove HPN, EMN, RAS.

In conclusion of this work, it should be noted that further clinical and statistical studies devoted to the selection of the most effective ECBRT regimens will optimize and facilitate the work of specialists working in this area.

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