

# Borreliosis in the MORA-bioresonance diagnostics

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| % of borreliosis patients with resonating signal |                   |                   |                     |
|--|-------------------|-------------------|---------------------|
| signal   | A (mildly sympt.) | B (medium sympt.) | C (strongly sympt.) |
| Brain  | 31                | 62                | 70                  |
| Vitamin E  | 44                | 67                | 61                  |
| Manganeese                                       | 19                | 71                | 57                  |
| Brainstem  | 50                | 57                | 52                  |
| Oxidative stress                                 | 63                | 57                | 52                  |
| L-Glutathione                                    | 38                | 43                | 52                  |
| Zincum   | 25                | 33                | 52                  |
| Autoimmune illnesses                             | 25                | 29                | 52                  |
| Olfactory bulb                                   | 31                | 48                | 48                  |
| Spinal cord                                      | 19                | 14                | 48                  |
| Fungosis   | 19                | 38                | 43                  |
| Milk   | 6                 | 38                | 39                  |
| Iron   | 13                | 29                | 39                  |
| Cerebrum A (opticum)                             | 19                | 14                | 39                  |
| Magnesium  | 25                | 52                | 35                  |
| Selenium   | 31                | 48                | 35                  |
| Wheat  | 25                | 43                | 35                  |
| Energy deficiency                                | 31                | 43                | 35                  |
| Defence system - Thymus                          | 38                | 33                | 35                  |
| L-Cystein  | 19                | 29                | 35                  |
| Polynocl aromatic hydrocarb.                     | 19                | 29                | 35                  |
| Medulla oblongata                                | 25                | 29                | 35                  |
| Cerebellum                                       | 31                | 29                | 35                  |
| Thalamus   | 13                | 24                | 35                  |
| Epstein - Barr                                   | 6                 | 5                 | 35                  |
| Vires  | 19                | 5                 | 35                  |
| Gluten (wheat)                                   | 44                | 48                | 30                  |
| Acidosis   | 31                | 43                | 30                  |
| Vitamin B6                                       | 0                 | 14                | 30                  |
| Liver  | 13                | 10                | 30                  |
| Lead   | 25                | 5                 | 30                  |
| Pyrethrum  | 19                | 38                | 26                  |
| Lymphatic system                                 | 6                 | 29                | 26                  |
| Arsenic  | 0                 | 19                | 26                  |
| L-Carnitin                                       | 0                 | 19                | 26                  |
| Limbic system                                    | 6                 | 19                | 26                  |
| Lindan   | 25                | 19                | 26                  |
| Vitamin B12                                      | 6                 | 14                | 26                  |
| Reticulo-Endothelial System                      | 13                | 14                | 26                  |
| Bakteriae  | 13                | 10                | 26                  |
| DHEA 5mg   | 0                 | 0                 | 26                  |
| DHEA 10mg  | 6                 | 0                 | 26                  |
| Gluten (barley)                                  | 25                | 57                | 22                  |
| Folic acid                                       | 6                 | 48                | 22                  |
| Mesenchyme                                       | 13                | 43                | 22                  |
| Chromium 3+(deficiency)                          | 19                | 24                | 22                  |
| Hypophysis                                       | 6                 | 19                | 22                  |
| Mercury  | 6                 | 14                | 22                  |
| Calcium  | 13                | 14                | 22                  |
| Potassium  | 6                 | 10                | 22                  |
| DHEA 15mg  | 6                 | 10                | 22                  |
| Pancreas   | 6                 | 10                | 22                  |
| Eggwhite   | 13                | 10                | 22                  |
| Candida albicans                                 | 38                | 43                | 17                  |
| Cadmium  | 38                | 33                | 17                  |
| Formaldehyd                                      | 6                 | 24                | 17                  |
| Rye  | 19                | 24                | 17                  |
| Vitamin B3                                       | 6                 | 19                | 17                  |
| L-Glutamin                                       | 13                | 19                | 17                  |
| PCP (pentachlorophenole)                         | 31                | 19                | 17                  |
| Vitamina A                                       | 0                 | 14                | 17                  |
| Gall bladder                                     | 0                 | 14                | 17                  |
| Alkalosis  | 13                | 14                | 17                  |
| Cerebrum B (audiological)                        | 38                | 14                | 17                  |
| Yolk   | 0                 | 10                | 17                  |
| Putrefactive processes                           | 0                 | 10                | 17                  |
| Bones  | 0                 | 10                | 17                  |
| Molibdenum                                       | 6                 | 5                 | 17                  |
| Cystes   | 13                | 5                 | 17                  |
| Ischial nerve                                    | 6                 | 0                 | 17                  |
| Hypothalamus                                     | 25                | 38                | 13                  |
| Dioxine  | 6                 | 29                | 13                  |
| Cytomegalie                                      | 0                 | 24                | 13                  |
| Oats   | 6                 | 24                | 13                  |
| Ksyladekor-Mix                                   | 25                | 19                | 13                  |
| Herpes simplex                                   | 0                 | 14                | 13                  |
| Giardia lamblia                                  | 0                 | 14                | 13                  |
| Mastoiditis                                      | 0                 | 14                | 13                  |
| Facial nerve                                     | 19                | 14                | 13                  |
| Latex  | 0                 | 10                | 13                  |
| L-Tryptophan                                     | 0                 | 10                | 13                  |
| Histamine  | 6                 | 10                | 13                  |
| Cuprum   | 6                 | 10                | 13                  |
| Tapeworm - Mix                                   | 6                 | 10                | 13                  |
| Synovial membrane                                | 6                 | 10                | 13                  |
| PCB (polichlorate biphenyle)                     | 13                | 10                | 13                  |
| Entamoeba  | 6                 | 5                 | 13                  |
| Rheumatism                                       | 13                | 5                 | 13                  |

## Borreliosis

Borreliosis is an infectious bacterial disorder which is transmitted by ticks. It causes skin rash, headache, fever, joint swelling, muscle pain, stiff neck, cranial nerves paralysis and many other symptoms. It is suspected to be the cause of sclerosis multiplex and rheumatoid arthritis. Diagnosis confirmation is often problematic because of a relatively low sensitivity of the available diagnostic tests. The treatment of borreliosis patients meets often problems because of trace elements and vitamins deficiency, oxidative stress, immune system deficiency, co-existing fungal, viral and parasite infections.

## MORA-bioresonance test



The MORA-bioresonance diagnostic method was developed by Franz Morrel and Erich Rasche. They have built the commercial device MORA (Med-Tronic GmbH, EN ISO 13485, EN ISO 9001) that is commonly used in the area of the natural (but not clinical until now) medicine.

The idea of the method is the registering of the signals in the frequency range 1-100kHz that are emitted by different vitamins, trace elements, toxins, pathogens or tissues by using very sensitive AD-card. These signals are characterized by the increase in the impedance of about 10%-30% if they are transmitted through the human body and the given pathology exists in the organism. The impedance increase of the tissue is observed only up to the given amplification of the applied signal. The highest amplification of the given signal being successively damped by the body points to the amount of energy the body is able to absorb. It makes it possible to conclude about the intensity of the given process in the body.

The mechanism of the spectrum-specific absorption can be explained by using the Quantum Field Theory applied to the structure of the water. The very high coincidence between the frequencies of the rotation of free quasi-excited electrons in the coherent domains of the water and the frequencies being used in the MORA diagnostics is observed.

These frequencies lie in the proximity of  $f=7\text{kHz} \cdot i$  ( $i=1,3,5,7,\dots$ ). This fact let us suppose that the coherent domains with the admixtures of a given substances create the structure-specific coherent domains that possess frequency-specific absorption- and emission spectra.

## Analyzed group, Results

548 patients suffering from different unexplained symptoms were examined using MORA-bioresonance diagnostic test in years 2008-2012. The signal 'borreliosis' has resonated at 60 of them.

Patients with borreliosis were divided into 3 groups:

- (A) – latent borreliosis – signal magnification  $I < 10$ , (N=16)
- (B) – middle borreliosis – signal magnification  $I = 10 - 20$ , (N=21)
- (C) – serious borreliosis – signal magnification  $I = 30$  or more, (N=23).

The frequency of the co-resonance of 'borreliosis' signal and different other signals of the MORA-test is presented for every group in Table 1.

## Conclusions

- Borreliosis is one of possible reasons of different undiagnosed symptoms, especially concerning the Central Nerve System.
- Many patients suffer from **latent** borreliosis. The main symptom of the latent borreliosis is an excessive **tiredness** and **sleepiness**.
- Borreliosis can lead to different **autoimmune illnesses**: e.g. Sclerosis Multiplex, Polyarthritus.
- The **oxidative stress** and the antioxidants' deficiency (vit.E, Mn, Zn, Fe, Se, Cystein, Glutathione) are common in the chronic borreliosis patients.
- Cerebral structures of skull base** are especially attacked by borreliosis (Especially the brainstem, cerebellum, medulla oblongata, cerebrum opticum, thalamus, olfactory bulb).
- Chronic borreliosis patients suffer often from **Deficiency of immune system**.
- Co-infections** (fungosis, EBV, Cytomegalie, parasites) and **allergies** (wheat, milk, eggwhite) accompany the borreliosis making the treatment difficult and selfhealing impossible.
- Many **trace elements, vitamins** and **amino acids** are **defficient** (in different combinations for individual patients).
- Suprarenal deficiency** (resonating DHEA) can be observed especially in the group C.
- Some **toxines** (Lindan, Pyrethrum, Lead, Arsenic, Mercury) accompany borreliosis more often than other ones. They can be the factors facilitating the progress of the illness or the factors reducing the selfhealing abilities.