

Coherent Rhythms (Timing Frequencies) in Biological Systems as a Basis for the Matrix-Rhythm-Therapy

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Clinical studies as well as cell biological observations under the high resolution videomicroscope in the past years have led to the conclusion that also characteristic time bases affect man morphogenetically. Not only cellular structures are being rhythmically generated during the time of life, but also physiochemical processes. i.e., which follow these rhythms intrinsically. This becomes important not only in the recovery from chronic diseases of man on earth but also in the understanding and management of the environmental influences of space flight.

Dissociating rhythms in man by detachment from chronobiological timers, or by traumatic or iatrogenic influences alter their flow equilibrium at the cellular level, especially in the extracellular matrix, which manifests itself in the successive symptomatic development of disease, which from a certain threshold can no longer be compatible with life. Life without rhythm is not possible!

Based on this consideration, the University of Erlangen conceived the therapy (Matrix-Rhythm-Therapy) to counteract these processes by carefully directed recreation of the physiological time basis.

The Matrix-Rhythm-Therapy (MaRhyThe®) is applied by an electrically powered oscillator (resonator) comprising an asymmetric (cam type) head whose mechanical oscillations are being supplemented by a magnetic sinusoidal phase synchronized field. These mechanical oscillations produce a visually detectable longitudinal motion in the musculature similar to that under muscle strain. Simultaneously to the mechanically produced direct Piezo-effect, the phase synchronic magnetic field produces an indirect Piezo-effect upon the tissue. The frequency and intensity of the oscillation may be adjusted, thus adapting them to the individually inherent oscillatory state of the muscle being treated and may thus be continually regulated during therapy.

This adaptation to the instant resonant condition of the muscle, as well as its fascia and tendons (resonance alignment) enables the oscillator to influence and alter it in the direction of the normal and healthy inherent frequency. Especially the muscle spindles and Golgi-sensors are treated specifically. Since the muscular oscillations exert a regulating influence upon the rhythmic processes of the circulatory and other systems, it is possible due to the influence of their rhythmicity to detect an immediate and perceivable improvement of the "quality of process" (function) at the cellular level and intermediate cell substance (Matrix) that precede a clinically diagnosed alteration of the materialistic "structural quality" in the occurrence of chronic diseases, wildly running biochemical and biophysical processes are being normalized and their natural healing processes are initiated and stimulated.

The Matrix-Rhythm-Therapy had been successfully tested, especially in the area of rehabilitation, high performance sports and veterinary medicine since its inception almost ten years ago at the University of Erlangen. It's application is specially indicative for the prevention (prophylactic avoidance of disease development) as also rehabilitation (prevention and decreasing damages resulting from strain, trauma, accidents and surgeries). Appreciated especially in sports medicine, is the significantly accelerated time for regeneration between training periods after hyper distension, injuries, hardening, tendonitis and other impairments which permit the intensification of training cycles and consequently more expedient return to performance following injuries. This type of therapy can equally be applied successfully for all kinds of pain (including migraine), badly healing wounds, all kinds of chronically degenerative diseases as rheumatism, fibromyalgia, arthrosis, osteoporosis, etc. of trauma or posturally dependent degenerative changes in the musculature as well as for spastic muscle contractures exhibited by mobility deficient patients.

It can be expected that the dominant atrophic and degenerative effects in the micro-gravic environment (absence of earths gravity) upon the entire neuro-musculo-skeletal system may be avoided or considerably reduced by the local and general application of this type of therapy since this also stimulates physiologically the causal connection of the sub-cellular processes i.e., the gravitationally dependent electrostrictive effect upon collagen.