

Matrix-Rhythm-Therapy and Systematic Regeneration in chronic diseases

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Summary

This study applies recent concepts from the fields of cybernetics, synergetics, and non-linear thermodynamics of irreversible processes to bioscientific problems in medicine. These concepts proceed on the presumption of the existence of universal space-time structures.

Within the field of medicine, this above all allows previously-neglected temporal structures to regain their original significance. Rhythmic, temporal processes in the realms of substance-concentration and enzymatic activity influence the physiological events occurring within the body in an organizational manner. When such time-based sequences undergo chaotic mutation, they lose these organizing properties.

From a cybernetic, control-technical aspect, chronic illnesses are conditions of decompensated regulatory mechanisms which occur subsequent to threshold-value reactions at micro levels. They are the consequences of phasic transition due to processes of adaptation to a chronically altered milieu or function, the ultimate result of which is the loss of temporal-rhythmic organization, i.e. chaotic mutation of cellular dynamics. Thus, chronic diseases are "dynamic diseases".

Corresponding to the insight gained from this viewpoint, the apt objective is to identify such bodily-intrinsic organizers and use them therapeutically. This therapeutic goal, therefore, is to regenerate and stabilize the basic autonomic rhythm of the organism and/or to change the amplitude and frequency values of the nutritional-flow density at the locality of the body's cells (the extracellular matrix) in such a manner as to exclude an existence of deterministic chaos.

Ultimately, all bodily structures which recognize electromagnetic, chemical, or mechanical rhythms are to be considered organizers of that organism.

On the example of the skeletal musculature, viewed as a neuromyogenous, rhythmic structure (and, with 40 % of the entire bodily mass, the largest organ of the body as well), the mode of action of matrix-rhythm therapy is first theoretically developed, then introduced and tested in practical application. Since four years it is clinical standard in prevention and rehabilitation of chronic diseases as well as in sports-medicine.

Key-words: Space-Structure, Time-Structure, Synergetic, Nonlinear-Thermodynamics of irrev. Processes, Matrix-Rhythm, Rhythm-Therapy.