

New technology finds its way into dentistry



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principles and strategy
of regenerative processes

Ganzheitliche Zahnmedizin
Erfolg auf ganzheitlicher Linie



Cell physiology – principles and strategy of regenerative processes

Over the past 25 years considerable progress has been made in scientific research and practical development in the field of materials for osseous and soft tissue regeneration.

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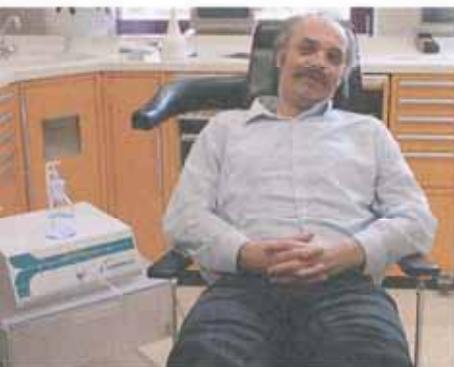


Abb. 1

The author himself has always followed this path in practice and research. Over the course of the years he has come to realise that these activities have concentrated principally on the development and improvement of conductive and inductive materials and less on the fact that optimum energy ratios are necessary for the regeneration of human cells and therefore of body tissue systems. This article is therefore intended to serve the purpose of redefining the approach to be taken when putting regenerative measures into action – the focus should not be on the materials to be used, but rather on the cell physiology processes that make the regenerative processes possible in the first place. Both inductive and conductive substances have already reached an extremely high level with regard to material physiology, whereas in the author's opinion, cell physiology investigation into the optimisation of energy utilisation receives too little consideration.

Life consists of responding to stimuli and at the same time maintaining the internal stability of the system and the organism as a whole. The objective is to achieve a stable balance of the internal environment, a dynamic homeostasis as the principal basis of life. The condition of the autonomous nervous system is of crucial importance. Here the basic functions of life, namely breathing, metabolism, cardiovascular system, digestion, hormone and immune systems, are largely controlled independently of the individual's consciousness and volition. The cardiovascular system in particular is a highly

sensitive indicator of the cell energetic utilisation of energy carriers and is consequently very important in assessing the efficiency of the entire organism. Age, the environment and illness cause a radical decline in the performance of the cell energy systems (mitochondria) to the extent that cells are destroyed. This is a physiological process that defines ageing, illness and, ultimately, death. The cell physiology aspects of ageing and illness can be proven beyond doubt using HRV (Heart Rate Variability), which in turn allows therapeutic approaches of an enzymatic and metabolic – in other words, medicinal – nature to be derived. The objective of these measures is to physiologically restore the oxygen utilisation of the cells, the energy production and the intra/extracellular antioxidative capacity. The reaction time required for this is relatively high – depending on the type and extent of the disorder. It is usually around two to three months at least. The use of Airnergy inhalation therapy (natural energy solutions AG, Hennef) brings about a dramatic reduction in this reaction time (Fig. 1) – verifiable using HRV immediately after only one treatment (see HRV diagrams, Figs. 2 and 3).

The reason for this is that the cell energetic supply is optimised immediately by the flood of free energy valences and cell performance (regeneration or renewal) also starts immediately. This is shown in the HRV diagram by the fact that the heart rate (HR) drops immediately, the adaptation coefficients SDNN and CV of the

kontakt:

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