ONCOTHERMIA COMBINATION WITH TRADITIONAL CHINESE MEDICINE: NETWORK APPROACH

Objective

Acupuncture and its connecting pathways the meridians are ancient Chinese knowledge too, but it is not understood yet in detail. Request of the static homeostasis of the complex organisms is demanding interdisciplinary approach and new paradigm for the topic. The detecting and reconstructing the deviations from the normal balance of the homeostasis is the basic principle of TCM. The Chinese medicine, the physical (mechanical or electromagnetic) acupuncture (acupressure) and mixed forms of heating and suction therapies (microwave) approaches are posing these problems, and solving it with ancient methods. Oncothermia method (OTM) uses also the deviations from the normal homoeostasis for selecting the tumor cells and on this basis gains new processes to eliminate them from the system, reestablishing the communicative harmony between the cells. This technique is well proven from the laboratory level to the clinical applications. Our aim is to synthesize the OTM with the common basis of equilibrium demand, and use the recognition of the deviations from the complex harmony of the organism or its part for selection and act properly.

Method, research proposal

An extended network approach was presented in the topic [1], and we would like to continue our research on this basis. This in silico studies will have their roots from the network analysis together with the modern fluctuation theory for complex living organisms (fractal physiology) was developed in the last decades to study this complexity. Like self-organizing processes [2, 3, 4, 5], fractal physiology [6, 7, 8, 9], and the biological [10, 11, 12, 13] Oncothermia relations using these new scientific results [11, 12, 13] as well as the resonance phenomena is studied and used in the light of a new theory [14, 15] and special vector potential theory [16, 17, 18] helps to complete the method. The problems of the thermal limit in the deep seated tissues is theoretically [19] and experimentally [20] resolved, so has no any barrier for the in vivo investigations in synergy experiments. TCM involves electric acupuncture and laser acupuncture, which are similar in their electromagnetic (conductive) approach to oncothermia effects. We studied the network control is a conduct and connected it with the model physiology approach, used essentially in oncothermia applications. The network is recognized as scale independent and so well generalized for all the living structures.

Oncothermia promotes the natural processes and in this manner has coherent aims with TCM philosophy and especially with the acupuncture. The main proven effects of acupuncture are the pain-reduction and general analgesia, and reduction of the side effects of cytostatic drugs and other side effects of the aggressive therapies. These facts could be good complementary facilities of the TCM and oncothermia methods.

Numerous published data show the immune-effect of acupuncture &
many evidences we have in oncothermia on the natural apoptosis and abecapal effect (immune assisted hypothesis)

Conclusion

The best, hypothetical cooperation of the methods however is on the field of immune reactions.

References