

Electro-hyperthermia practice

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A special series of electro-hyperthermia is introduced and widely applied in the clinical practice [1]. Developing this practice a theory was developed as well, [2], understanding that the water-ordering states [3] have essential role to organise the normal function of the living units.

The practical basis is the combination of the electric effects with 'classical' heat treatments (see figure). The practical applications are ranging from

- the only electric field treatment ('galvano' therapy, focusing on the electro-chemical effects),
- the medium frequency electric field combined with the electric transport and impedance changes ('cavitation' hyperthermia, mainly applied for prostate problems {BPH and cancer}, using both the AC electrochemical and heat effects),
- the high frequency electric field (local-hyperthermia, using a complex effects of the electric and heat processes),
- the special spectra of radiative heat (total-body hyperthermia treatment, concentrating the optimal heat delivery into the body).

Combination of the methods to optimise and personalise the treatment, and to choose the most effective one is also successfully applied. Every individual treatment is modulated by definite frequencies to increase their effectivity.

In the lecture we present the actual and complicated cases and the results, which we hardly believe to reach with other kind of treatments.

The applied methods allow to focus the energy loss of the external fields on to the cancerous vicinity, and stop the malignant processes by multiple-effect [4]:

References

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