HISTORY OF HYPERTHERMIA AND ELECTRO-TREATMENTS

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Objective
Our objective is to show the long historic development of the hyperthermia and the electromagnetic therapies directly to the oncotherapy.

Ancient approach of heat-therapy
Hyperthermia is ancient treatment. Started with the early ancient cultures the beginning heat & cultural roles, centering on the Sun (Sun God in Egyptian philosophy).

Belief on GOD SUN

First mentioning of hyperthermia in Smith, Surgical-Papyrus

The oldest medical handbook: Talmud with pharmaceutical description from Nilus Late 3” millennium BC.

Development of electro-therapy
1891: Alternating high frequency current flowing in the human body becomes the prototype of present electrotherapy treatment.

First a new era of electro-medicine all over the world

High popularity expected “final solution” for diseases.

Electrotherapy is combination with medications, the new treatment for cancer. Peter: developing how the body could deliver high voltage electricity.

Ancient fever therapies
Later, Hippocrates had used colds as well as the significance of fever, and modern concepts as to its possibilities. “Give me an opportunity to produce fever, and I will cure all diseases.” (BC 300-BC 370).

Dioscorides – The FIRE
Those who cannot be cured by medicines, can be cured by surgery. Those who cannot be cured by surgery can be cured by hyperthermia.

Those who cannot be cured by hyperthermia, they are in reality incurable.

Ancient times – Sacred...Smith’s Papyrus

Middle ages
Arabian medicine

- Pest, and leech doctors, such as burning or bleeding-wound
- Galenism techniques are used even out thepler

European medical development
17-18 Century, advances in medical research and technology in a philosophical debate as a progressive step in scientific approaches

Oncothermia - synergy of heat and electrotherapies
First steps (1888-1998) ECT systems, working on patient effect, modified Neiderstrom’s idea. The modification is the integration of the time/thermal pulsations (thermal-pyrodynamic approaches).

Heat-therapies today
Modern electro-therapy devices, continuing the ancient idea: heating and control the temperature

BSS-Medical
Thermontron
Brucker
Alba

The classical paradigm has classical controversies: the temperature control and action makes difficulties. A new paradigm is necessary. This was the synergy with electrotherapies.