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SCHOOL OF ONCOTERMIA:

The Integration of Bi-Digital O-Ring Test and Hyperthermia in Cancer Treatment

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The Bi-Digital O-Ring Test is an early non-invasive diagnostic test for intractable medical problems with their safe and effective treatment based on electromagnetic phenomenon. It can involve the detection and treatment of early stages of cardiovascular disease, Alzheimer's disease, Autism, and cancer long before any known laboratory test can detect any abnormality or malignancy (1). It is a very fundamental corner stone of integrative medicine as preventive medicine.

BDORT is a reproducible, natural objective medical test. Exactly as standard laboratory medical tests; it is simply a measuring technique. It detects and measures different substances in the body. Additionally, exactly as standard laboratory test measurements, BDORT measurements are compared to norms, which usually are accurate (2).

By the Selective Drug Uptake Enhancement Method, developed by Dr. Omura Y., most of the effective medication can be delivered selectively to the pathological areas, reducing the drug going to normal tissue and thus minimizing side effects (3). This method consequently can save and prolong lives, because safe optimal doses of effective medicines can be determined and administered quickly.

Through virtual drug testing, harmful drug interactions among multiple beneficial drugs (taken together), allergies, and toxic doses can be detected and avoided before administration.
The imaging technique can be applied to diagnose cancerous tissues (4). Appropriately and skillfully used BDORT, particularly with the full range of techniques shows that the muscle force is unchanged when microstimulation is applied to the normal region. It is also unchanged where the same substance is absent. Thus plotting a series of boundaries where the response to stimulations is changed makes the imaging of the organ or the lesion possible (1, 6). This imaging makes it promising to gain more information than the diagnostic imaging devices such as MRI, CT, Ultrasonic and X-ray, which are too expensive, time taking and some even invasive.

Hyperthermia is an acute condition which occurs when the body produces or absorbs more heat than it can drive away. It can also be created artificially by drugs or medical devices. In these instances it may be used to treat cancer and other malignance conditions.

Hyperthermia cancer treatment is a type of medical treatment, where the temperature of the cancerous tissue is exposed to as high as 45^0C in order to damage and kills cancer cells or to make cancer cells more sensitive to the effects of radiation and anti-cancer drugs (7, 16).
Cancer cells are more heat-sensitive than healthy cells and their structure reacts differently to overheating (8). There are three methods: (a) whole-body hyperthermia heats the entire body to temperatures of about 39 to 41 °C. It is typically used to treat metastatic cancer; (b) local hyperthermia heats a very small area, usually the tumor itself the temperatures may range from 41 to 45 °C; (c) regional hyperthermia heats a larger part of the body, such as an entire organ or limb the temperatures may range from 40 to 43 °C (9).

Hyperthermia kills or weaken tumor cells and is controlled to limit effects on healthy cells (10). Tumor cells, with a disorganized and compact vascular structure, have difficulty dissipating heat. Hyperthermia may therefore cause cancerous cells to undergo apoptosis in direct response to applied heat, while

healthy tissues can more easily maintain a normal temperature. Even if the cancerous cells do not die outright, they may become more susceptible to ionizing radiation therapy or to chemotherapy drugs, which may allow such therapy to be given in smaller doses (11).

As well, intense heating will cause denaturation and coagulation of cellular proteins, rapidly killing cells within a tumor. More prolonged moderate heating to temperatures just a few degrees above 37^0C can cause more subtle changes (12). A mild heat treatment combined with other stresses can cause cell death by apoptosis (13). There are many biochemical consequences to the heat shock response within the cell, including slowed cell division and increased sensitivity to ionizing radiation therapy (14).

Hyperthermia increases blood flow to the warmed area, doubling perfusion in tumors, while increasing perfusion in normal tissue by ten times or even more (15). This enhances the delivery of medications.

Hyperthermia also increases oxygen delivery to the area, which may make radiation more likely to damage and kill cells, as well as preventing cells from repairing the damage induced during the radiation session (15).

Hyperthermia is a therapeutic modality which employs non-ionizing radiations. It can be used not only by radiation oncologists but also by clinical oncologists. Its augmentation to radiotherapy with or without chemotherapy is important, when it is necessary to treat advanced or high-risk tumors, or to retreat a relapse in a pre-irradiated area (10, 12). As a result of the improved systems for achieving an optimal distribution of heat inside the tumor and precise and noninvasive thermometry, hyperthermia is today an important treatment modality in the treatment of cancer and its results are strongly supported by criteria of evidence based medicine (16). That is why hyperthermia appears to be the fourth bludgeon against cancer, besides surgery, radiotherapy and chemotherapy.

Fig. 1: The antennae are put on the pelvic cavity sight to treat prostate malignancy

Fig. 2: The antennae are put on the right abdominal region to treat liver malignancy

The Andromedic Italy (http://andromedicitalia.it/) was established by the entrepreneurial initiative of a group of experts from companies operating in the healthcare sector.

The division of Oncological Hyperthermia product **HY-600WM DEEP** presents quality, safe and easy to use machine based on radio frequency that makes it a unique product in the market of deep hyperthermia for cancer treatment.

Venue:

Crowne Plaza Hotel, Belgrade
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