

## **The Role of Hyperthermia in Alternative Medicine**

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### **Short Commentary:**

During my 42 years of clinical practice in alternative medicine, I have witnessed certain changes in tumor behavior. Over the time, cancer has been developed at an earlier age, in certain cases with a more aggressive tumor behavior, relapsing in a shorter period of time or becoming more resistant to standard treatment regimens. Conventional medicine has invested a lot of effort at different levels and yet, we are still dealing with these situations.

While attending a medical conference in Shenzhen, China in 2004, I became so impressed when one of the speakers revealed encouraging results in melanoma patient with liver metastasis. He had accomplished 5 years complete remission by using whole body hyperthermia and dendritic cell therapy. As you might recall, liver metastatic melanoma is one of the most difficult to respond with standard therapies. Since then, I became motivated and began my own research in hyperthermia.

It's a mode of action has to do with thermosensitivity of cancer cells which is most relevant at low pH and low oxygen environment. High temperatures also accelerate cellular metabolism, breaking down glucose to lactic acid and lowering the PH. It also produces increased emigration of peripheral mononuclear cells as well as induction of apoptosis (cancer cell destruction).

Based upon the fact of thermosensitivity of tumor cell promoted by heat therapy, it is commonly used in conjunction with low dose chemo or radiation therapy in different countries, such as Italy, Germany, China and Mexico. The interesting point of hyperthermia is providing effective therapy as well as lowering toxic adverse effects from these other therapies. Quality of life improvement is another issue provided by this treatment regimen.

During the hyperthermia session, the patient is under sedation with an appropriate hydration regimen and continuously monitored with EKG, blood pressure, pulse, temperature, and oxygen saturation. Once the HT session is over, the patient is kept with continues hydration regimen in order to restore electrolytes and trace minerals lost during treatment.

By maintaining proper hydration and constant medical surveillance allows hyperthermia to be a safe and reliable therapy.

**Hyperthermia indications:**

- ✓ Liver metastatic conditions.
- ✓ Adjuvant treatment in Cancer.
- ✓ Different types of Lymphoma.
- ✓ Immunological enhancement against tumor cells.
- ✓ Hepatitis C.

Hyperthermia has proven to be a safe and effective tool against cancer and with no adverse effects.

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