Oncothermia, a Breakthrough and Revolutionary Cancer Therapy

By Dr Michael A Prytula ND and Dr Mike Um ND

In January of 2018, we at Nature Medicine were not content with the achievements of our cancer patients. We had breakthroughs with high dose vitamin C and ozone therapy in improving the quality of life and duration of life of our patients with some patients having complete cancer resolution to the surprise of their oncologists. However, these breakthroughs were not consistent. We wanted and expected better for our cancer patients.
Being in a clinical environment and seeing thousands of patients for a wide variety of conditions including cancer we have witnessed our patient's treatment success and failure and observed the limits of the biochemical model for cancer. Within the biochemical model we tried: high dose IV Tumeric, IV Alpha Lipoic Acid, again with limited success. Medicine has reached the ceiling with the biochemical model and we reached the ceiling with natural biochemical model. We needed a change by adding technologies that were outside of this model but were also synergistic with it.

Cancer is a devastating disease which is difficult to treat. According to the CDC, there have been no statistical differences in cancer tumors since 1958! 30% of deaths that occur in Canada are due to cancer alone. It is estimated that 1 in 2 Canadians will develop cancer at some point in their life time. In the U.S, these statistics demonstrate that our current tools and strategies aren't getting better results, so we need to find new and powerful therapies that can be effectively applied in the treatment against cancer.

President Nixon declared war on cancer in 1971. With $150 billion being invested into the American Cancer Institute since the war had started; it is evident that a change in strategy needs to be made. With the cancer rates and mortality rates as high as they are, we at NatureMedicine are continually searching for breakthrough treatments. Through our research we have found new and promising options that can be used to treat the mechanisms that cause and perpetuate cancer.

Oncothermia is a therapy offered to combat the fight against cancer. It can be used in conjunction with conventional and other integrative naturopathic treatments including high dose vitamin C, ozone therapy, turmeric, hypericin, low level laser therapy and photo dynamic therapy.

We Treat the Mechanisms that Cause Cancer
We target…

- the **METABOLISM** of the tumor cell
- the **ELECTRICAL CIRCUIT** of the tumor cell
- the **STRUCTURE** of the tumor cell
- the protective **MEMBRANE** of the tumor cell
- **CELL ADHERENCE** (aka stickiness)
- the tumors ability to induce **CELL SUICIDE** (apoptosis, cancer cell death)
- the ability to stimulate the **IMMUNE SYSTEM**

Did you know?
Oncothermia…

- Targets cancer cells specifically and avoids healthy cells
- Kills cancer cells

- Helps supress metastasis
- Helps improve the benefits seen from radiation and chemotherapies!
- Helps improve the effects of other integrative naturopathic treatments such as high dose IV vitamin C, ozone therapy, turmeric, hypericin, IV laser and photodynamic therapies!
- Decreases the negative side effects experienced from chemotherapies and radiation therapies
- Can be used before and after surgery
- Helps decrease pain

What does Oncothermia do?
Oncothermia is a form of heat therapy (ie. hyperthermia) using radiofrequencies to specifically target the mechanisms that cause cancer without damaging our healthy cells!

Did you know?
Heat therapy has been used for centuries as a healing method and as a way to treat cancer? There is evidence of its use in indigenous populations, Egyptian, Roman and Greek history. It was even used by Hippocrates for treating breast masses.

In the mid-1800s a German man named Busch discovered that in some instances fevers caused tumors to shrink! He recognized that specific bacterial infections could induce a fever and kill cancer cells. This finding was discovered again in 1891 by an American surgeon named Coley. He later went on to invent the "Coley's toxin", a bacterial vaccine, that was injected in the vein to cause tumor regression! It was recognized that the fever must remain between 39-40^{o}C if the tumor was to shrink. These discoveries helped shape the current advances in oncothermia treatment.

How it Works

METABOLISM
Oncothermia uses the components of hyperthermia generated by radiofrequencies to specifically target and heat cancer cells. How can it target cancer cells specifically? Cancer cells have a higher metabolism than our healthy cells. The cancer cells consume sugar (glucose) at a higher rate than non-cancer cells for energy enabling the cancer cells to thrive, leaving the rest of our body with very little. The by product of this high metabolism is a release of excess hydrogen ions outside the tumor cells. The radio frequencies from oncothermia are attracted to these ions as they allow the electric current to flow easily. Just as an electric current chooses the easiest path to flow in an electric circuit, the electric current produced from oncothermia chooses the path of least resistance, through the cancer cell. Since there are more ions outside of the tumor cell then our body's healthy cells, the treatment targets cancer cells! Hence, oncothermia exploits the METABOLISM of the cancer cell.

STRUCTURE
This radio wave begins to heat the area outside of the tumor as it is attracted to the hydrogen ions. This temperature gradient creates an imbalance where upon the body compensates for this by bringing heat from outside the cell into the tumor cell. This process is very slow and continues until the temperature is the same both inside and outside the tumor. This heat changes the structure of the cancer cell, causing apoptosis. By this mechanism, oncothermia targets the STRUCTURE of the tumor!

MEMBRANE

The radio waves also target the tumors PROTECTIVE MEMBRANE by damaging it, allowing the current to flow through. The cancer cell wants to survive and quickly fixes the protective membrane making it even stronger than it was. With this newly repaired and stronger protective membrane it is less likely that metastasis will occur! This stronger connection allows for improved communication between the cancer cells. This means that each cancer cell does not work on its own, they are working together and begin to communicate more like a healthy cell. Again, oncothermia targets another mechanism: CELL ADHERENCE (stickiness) of tumors.

Slowly heating the inside of the tumor cell is an important variable in cancer therapies. If it is heated quickly, the tumor will believe it is under attack and compensate (defend). However, if it is heated slowly and damage occurs gradually, the cell will believe it is faulty and not working the way it should so it chooses to die.

This is where oncothermia works better than hyperthermia. Hyperthermia targets the tumor by attacking it with high heat to cause tissue death. Oncothermia goes one step closer and targets the tumors ability to cause cell SUICIDE (apoptosis). Since oncothermia causes the tumor cell to not function properly by changing the structure through gradual heating and by breaking its membrane, the tumor believes it is faulty and chooses to die. This takes approximately 2-3 hours for some cancer cells to die. The type of death created by oncothermia is non-toxic as no inflammation is produced, but in hyperthermia the death is toxic as it produces inflammation.

Another mechanism by which oncothermia works is by removing the stealth capability of cancer cells, exposing the cellular markers to the immune system. This stimulates the immune system to attack tumors that have metastasised resulting in their death.

Oncothermia vs Hyperthermia?

Hyperthermia	Oncothermia
Uses heat to damage the structure of the tumor	Uses radio waves to induce damage to the structure of the tumor.
Uses heat to damage the tumors protective membrane	Uses radio waves to induce damage to the tumors protective membrane
Needs MORE heat to damage the tumors membrane and change the structure of proteins	Needs LESS heat to damage the tumors membrane and change the structure of proteins
Cannot target the metabolism of the tumor and can damage healthy cells	Targets the metabolism of the tumor specifically, NOT healthy cells.
Cannot cause the cells to stick together	Causes the cells to stick together to overcome its ability to separate from each other (metastasis)
KILLS cells	Causes cell SUICIDE
Cell death DOES cause inflammation, which is toxic	Cell death does NOT cause inflammation, thus non toxic

What are the Side Effects?

This treatment is quite safe as no serious or life threatening effects have occurred to date. Reported side effects include superficial skin burns and adipose (fat tissue) burns in 3% of people.

How do you Conduct this Treatment?

A machine known as the OncoTherm generates the radiofrequencies that induce the electric current needed to target and attack the mechanisms that cause cancer. No protective gear is needed to be worn during the treatment as the radiofrequency range used is not dangerous.

This is not used as a sole cancer therapy but is used in conjunction with other cancer treatments. Effective treatment should occur 2-3 times per week for 4 weeks (1 cycle) for a minimum of 2-4 cycles. Oncothermia can also be timed with chemotherapy, radiation treatment or surgery provided that the chemotherapeutic drug is also heat activated. Using the oncotherm with conventional treatment has been found to increase the beneficial effects seen with these treatments.
The oncotherm can also be combined with other integrative therapies offered at Nature Medicine including high dose vitamin C, IV turmeric, hypericin, photodynamic therapy, IV laser therapy, ozone or other radiosensitive or thermosensitive substance.

Oncothermia can be used in any stage of cancer and can be used for any tumor type; it does not need to be cancerous. Some positive effects can be observed after 2-3 treatments.

Talk to your Naturopathic Doctor, Medical Doctor, Nurse Practitioner or even your Oncologist if you have any questions and to see if this treatment is right for you. Remember most medical personnel don't know enough about this new technology and are afraid to admit it or don't bother to research it therefore they might not recommend oncothermia! Ask them if they have any experience or understanding of oncotherm before embracing their opinion. You want and deserve an educated opinion!

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