


# The Health Benefits of Bio Magnetic Therapy

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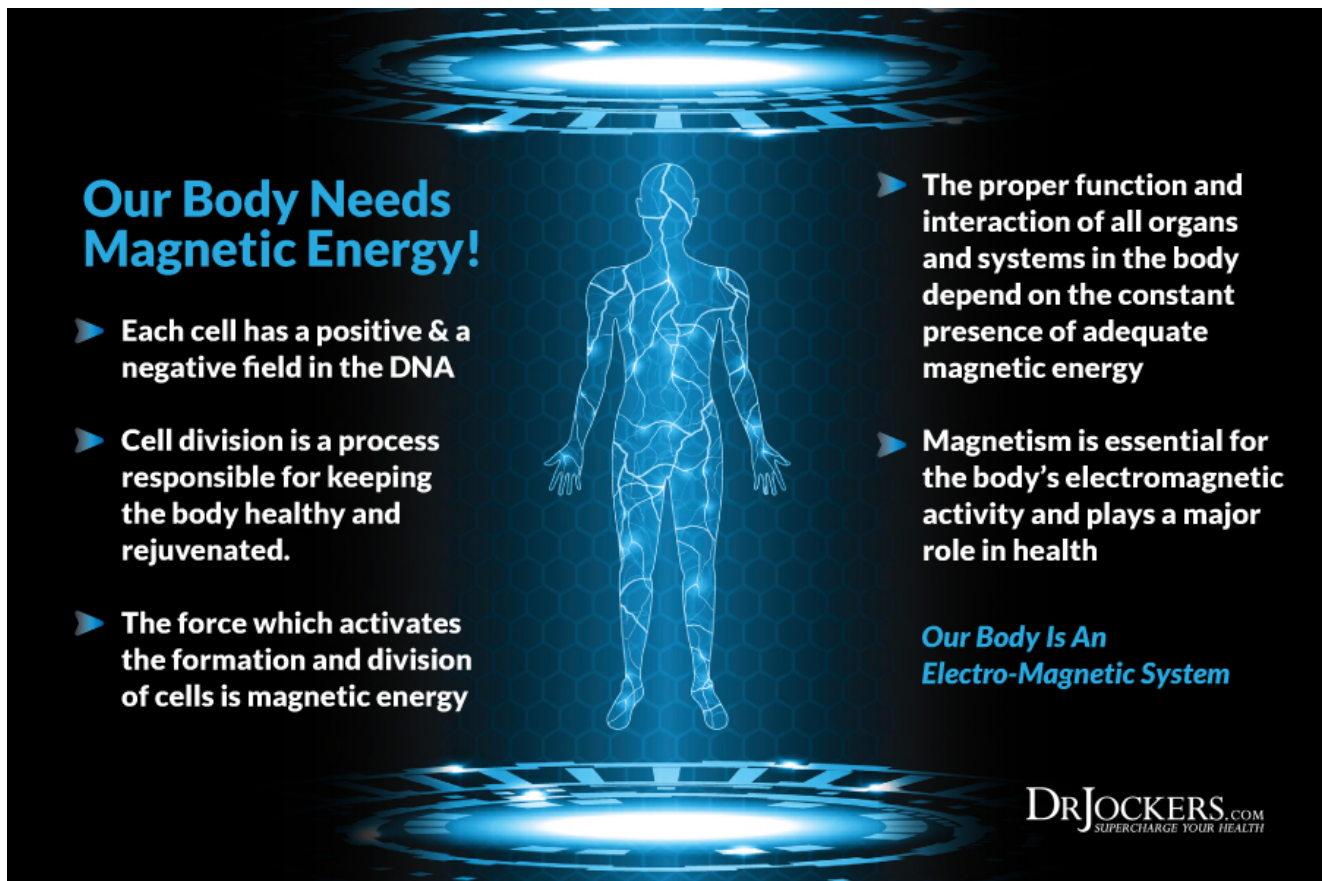


## Bio Magnetic Therapy:

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Magnets and magnetic therapy has been used for healing for thousands of years. The Ancient Greeks discovered lodestone which is considered by many to be the very first natural magnet. Hippocrates, the father of modern medicine, discussed the use of magnets in his healing protocols. Magnets are used by scientists and doctors to help people heal from all sorts of chronic health conditions.

Magnets are used as a healing therapy throughout many areas of Europe and Asia but have not been accepted by the traditional medical community in North America. The United States does use magnets in complex medical imaging procedures to better understand the body. Magnetic Resonance Imaging (MRI) uses magnetic fields to formulate 3-D images of the brain and electroencephalographs (EEG) look at the electrical activity of the brain.



## Growing Evidence For Magnetic Therapy

According to the National Center for Complementary and Alternative Medicine, “there is growing evidence that magnetic fields can influence physiological processes (1).” Many leading researchers and physicians around the world tout the benefits of magnetic therapy. Dr. Kyoichi Nakagawa, the director of Isuza Hospital in Tokyo, Japan, is a huge advocate of magnetic therapy.

Some well-known celebrity doctors Dr. William Philpott, Dr. Gary Null and Dr Julian Whitaker are very big advocates of biomagnetic therapy and use it regularly. These users of biomagnetic healing claim that it helps to relieve pain and discomfort.

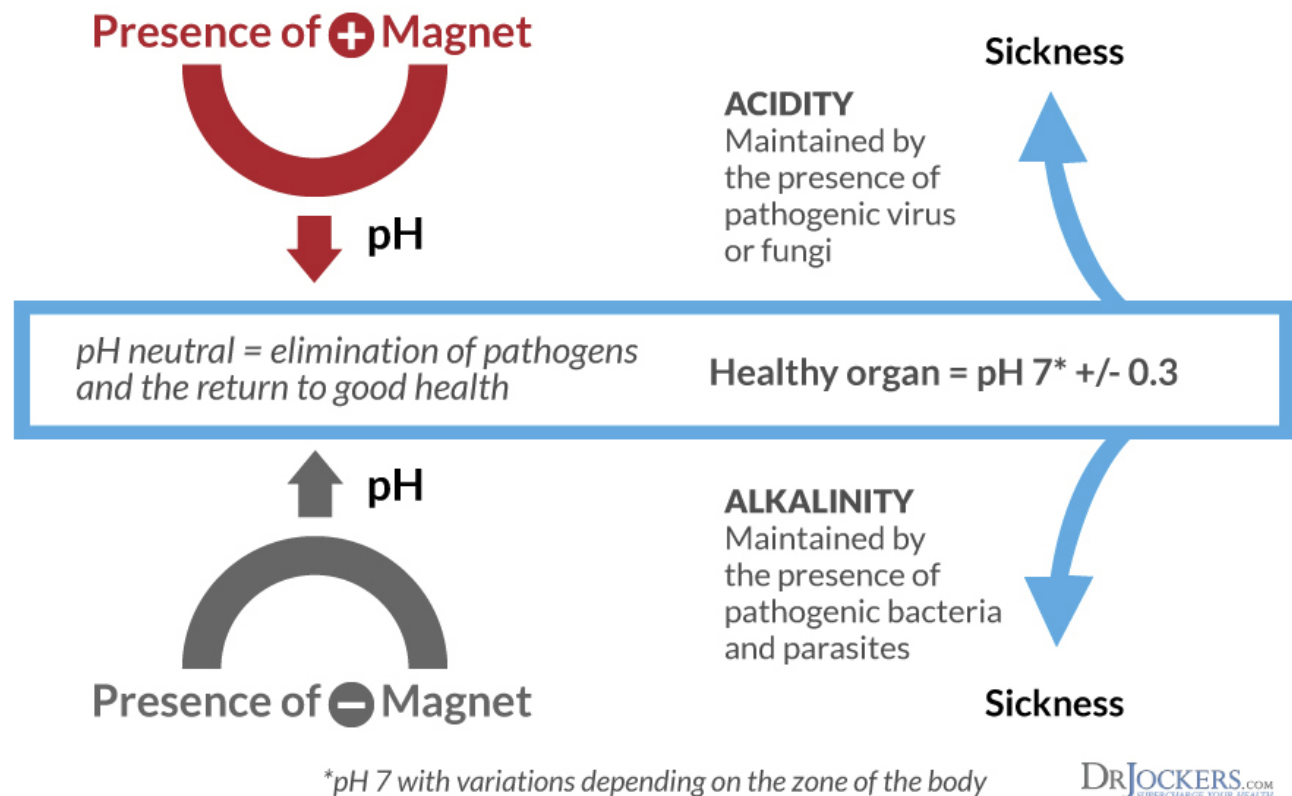
This happens as magnets improve circulation and reduce inflammation and oxidative stress. They also help the body ward off pathogens and improve tissue healing processes. Many individuals and athletes use magnets regularly on injured muscles and joints and in regions of cancerous tissue and over struggling organs.

## How Does Magnetic Therapy Work?:

Every cell in our body has a negative charge on the outside and a positive charge on the inside. This allows for electrical signaling to move throughout the body very quickly and effectively. When a region of the body is injured or inflamed it causes a lack of blood flow.

This reduces oxygen and nutrients into the region which causes a lack of polarity and disrupts the natural electrical currents in the body.

Magnets work by improving circulation to the damaged region and improving the injured cell's polarity. Magnet energy is considered a catalyst which speeds up biological processes and enables the body to reduce inflammation and heal itself. Magnets also speed up circulation improve oxygen and nutrient absorption into the targeted cells. They also help improve the efficiency of waste removal from these targeted cells (2, 3, 4, 5).



## Types of Magnets:

A magnet's power is determined by the weight of iron it can lift. Ceramic magnets are stronger but less flexible than other types. According to Dr Null there are four major factors that determine a magnet's effectiveness:

**Strength:** The higher the gauss unit, the stronger the magnet

- **10<sup>-9</sup>-10<sup>-8</sup> gauss** – the magnetic field of the human brain
- **0.31-0.58 gauss** – the Earth's magnetic field at its surface
- **25 gauss** – the Earth's magnetic field in its core
- **50 gauss** – a typical refrigerator magnet
- **100 gauss** – a small iron magnet

- **2000 gauss** – a small neodymium-iron-boron (NIB) magnet
- **600-70,000 gauss** – a medical magnetic resonance imaging machine

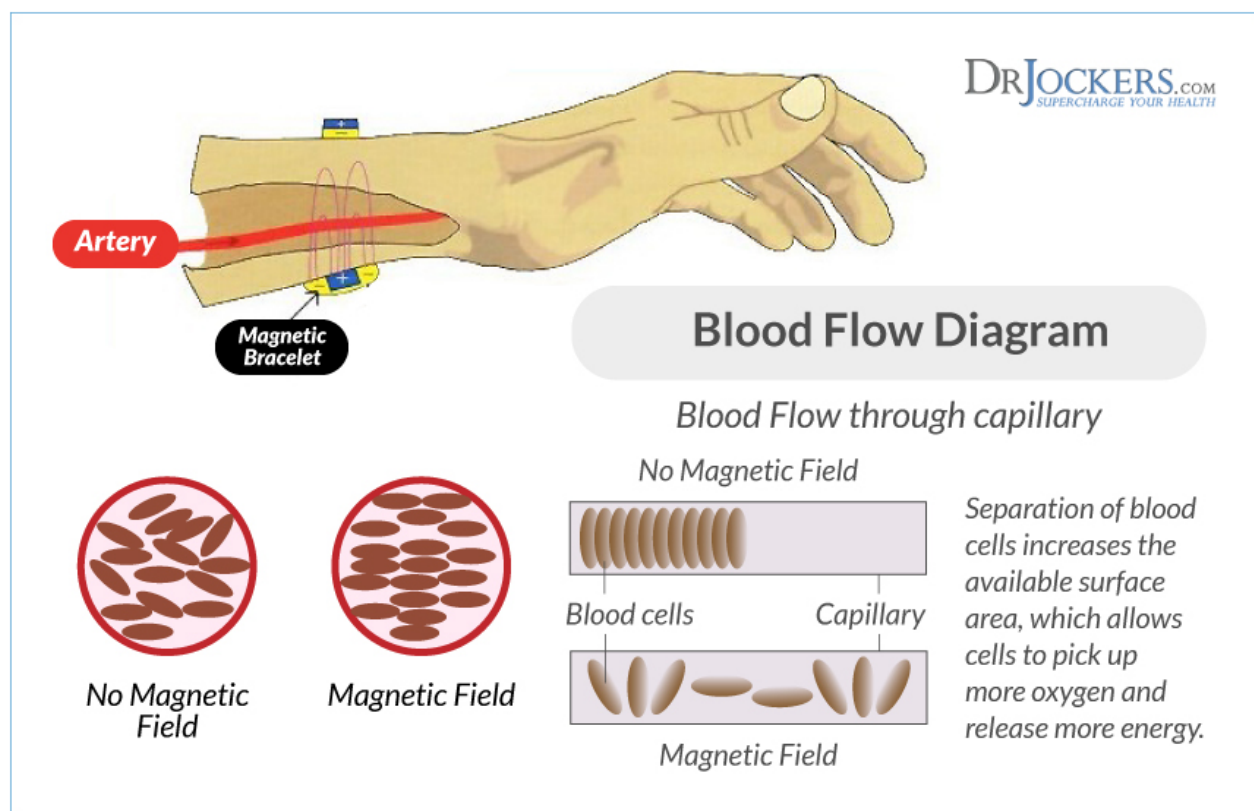
**Thickness:** Thicker magnets together offer greater strength and penetration

**Number:** More magnets together offer greater strength and penetration

**Space:** The smaller the space between the magnet and the skin surface, the better.

The beneficial effects of magnets are produced from the negative pole which is thought to increase the amount of oxygen available to cells and create a more alkaline environment in the body. This helps speed the healing of cuts, broken bones, infections and chronic diseases such as cancer (5).

Magnetic therapy is put in action by applying thin magnets on different regions of the body. They are often mounted on bracelets and necklaces or attached to adhesive patches that hold them in place. Some magnets are placed in bands or belts that are wrapped around joints such as the ankle, foot, wrist, knee, elbow or lower back. Magnets can be placed in the soles of our shoes, seat covers, blankets and slumber pads. They can be worn for a few minutes or weeks at a time.



## BioMagnetic Therapy and Cancer:



Dr Albert Roy Davis, PhD, was one of the first to claim that magnetic therapy had the potential to kill cancer cells and improve many chronic health conditions. His laboratory research led him to believe that magnets could be used to arrest and kill cancer cells in animals, and could also be used in the treatment of arthritis, glaucoma, infertility, and diseases related to aging. He concluded that negative magnetic fields have a beneficial effect on living organisms, whereas positive magnetic fields have a harmful effect (6).

Scientists at Yonsei University in South Korea found that magnetic therapy has the ability to activate a key receptor that instructs cells to die. This discovery may have a profound effect on cancer treatments (7).

The Korean study published in the journal Nature Materials describe The outside surface of every cell has receptors that act like a chemical lock. When the appropriate chemical interacts with the receptor it is like a key that unlocks activity within the cell. Activating a receptor called “death receptor 4” releases a signaling process called cellular apoptosis or programmed cell death.

One of the characteristics of cancer cells is that they have lost their natural apoptotic switch. Most cells have a certain lifespan and then they die while cancer cells resist cellular death and continue to replicate. Programmed cell death, or apoptosis, as it is known, is one of the body’s ways of getting rid of old, faulty or infected cells. When we lose this switching mechanism it can lead to malignancy and metastasis (8).

This study was done in a lab dish with colon cancer cells and it showed that magnetic therapy activated the death receptor 4 in these resistant cancer cells. Another study showed the effectiveness of magnetic therapy and cancer cell apoptosis in zebra fish (9). However, the study has never been performed in a live body so it is too early to say that this works in live cases.

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# Magnetic liposomes for colorectal cancer cells therapy by high-frequency magnetic field treatment

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## Abstract

In this study, we developed the cancer treatment through the combination of chemotherapy and thermotherapy using doxorubicin-loaded magnetic liposomes. The citric acid-coated magnetic nanoparticles (CAMNP, ca. 10 nm) and doxorubicin were encapsulated into the liposome (HSPC/DSPE/cholesterol = 12.5:1:8.25) by rotary evaporation and ultrasonication process. The resultant magnetic liposomes (ca. 90 to 130 nm) were subject to characterization including transmission electron microscopy (TEM), dynamic light scattering (DLS), X-ray diffraction (XRD), zeta potential, Fourier transform infrared (FTIR) spectrophotometer, and fluorescence microscope. *In vitro* cytotoxicity of the drug carrier platform was investigated through 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide (MTT) assay using L-929 cells, as the mammalian cell model. *In vitro* cytotoxicity and hyperthermia (inductive heating) studies were evaluated against colorectal cancer (CT-26 cells) with high-frequency magnetic field (HFMF) exposure. MTT assay revealed that these drug carriers exhibited no cytotoxicity against L-929 cells, suggesting excellent biocompatibility. When the magnetic liposomes with 1  $\mu$ M doxorubicin was used to treat CT-26 cells in combination with HFMF exposure, approximately 56% cells were killed and found to be more effective than either hyperthermia or chemotherapy treatment individually. Therefore, these results show that the synergistic effects between chemotherapy (drug-controlled release) and hyperthermia increase the capability to kill cancer cells.

**Keywords:** Liposomes; Magnetic nanoparticle; Colorectal cancer; High-frequency magnetic field; Drug controlled release

## Background

Development of smart materials that could response to the environmental stimuli is gaining importance over the past decade in the drug delivery system [1]. Remote control drug carrier behavior has been regarded as a function that could enhance the efficacy and efficiency of drug delivery to the target sites [2,3]. Among several drug carrier candidates, liposomes exhibit a number of excellences. Liposomes are synthetic lipid bilayer with enclosed structure up to several hundred nanometers in diameter. It is highly biocompatible and biodegradable

and can encapsulate both hydrophilic and hydrophobic pharmaceutical agents and protect them from the inactivating effect of external condition. Moreover, liposomes provide a unique characteristic to deliver pharmaceuticals into cells or even inside individual compartments [4-7]. Recently, researchers have developed novel liposomes to provide a smart treatment in human body which can undergo the releasing of encapsulated contents as the response to the environmental stimuli like temperature [2], pH [8], light [9], ultrasound [10,11], magnetic field [12,13], and so on. These specific environment stimuli are used as the driving force for triggered drug release based on the interaction between the stimuli and liposomes. Among the aforementioned stimuli, magnetic-triggered system has become one of the most potential strategies as the release and targeting stimuli.

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Most experts still believe the best benefit of magnetic therapy in cancer patients is the negative poles ability to produce alkaline hyperoxia (abundance of oxygen). Cancer cells form their energy in an anaerobic fermentation state without oxygen and acid is the byproduct. High levels of oxygen are destructive to cancer formation (10).

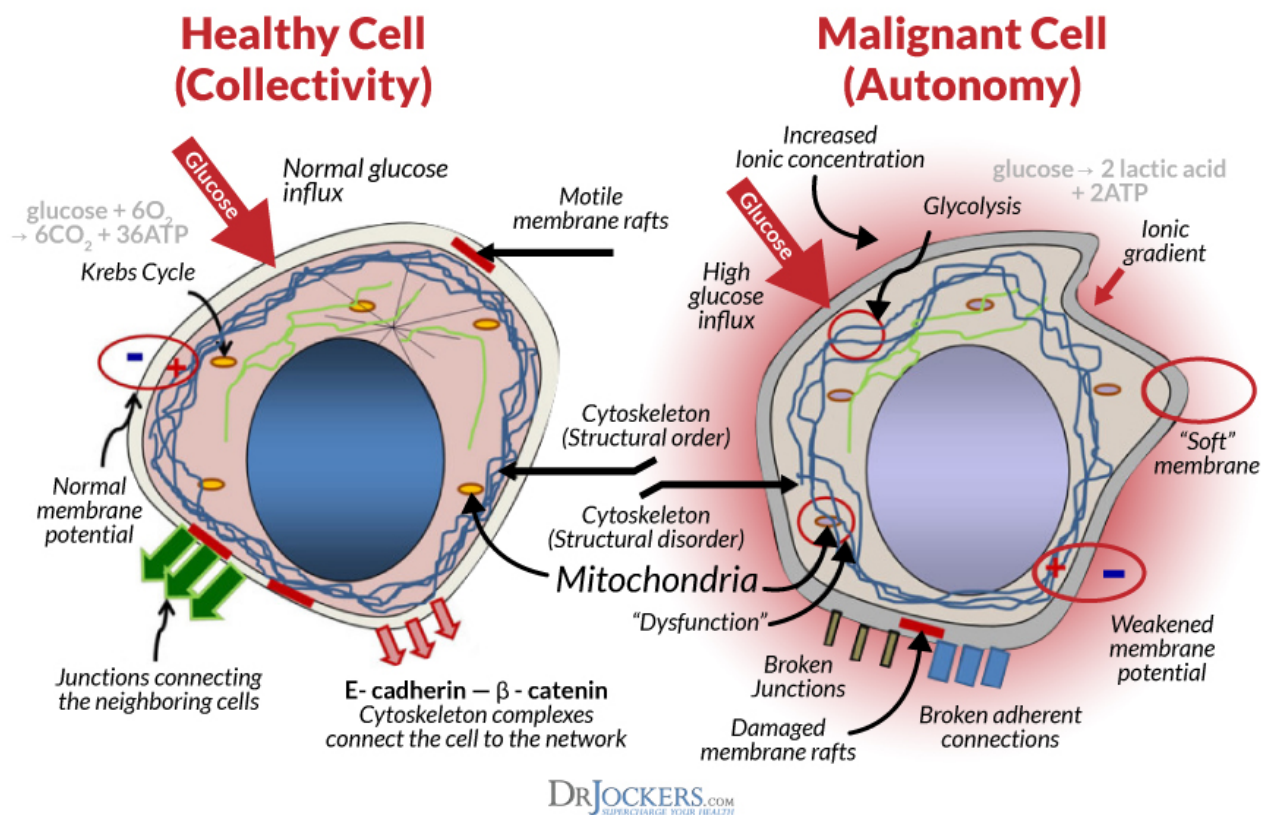
Magnetic therapy should never be considered as a sole therapy for cancer but it may have success as an adjunct therapy when used with many other natural or traditional cancer treatments. According to experts, there are several rules that must be applied if magnets will be a successful adjunct therapy in reducing cancer cell growth.

- 1) The Magnetic pole must be entirely negative
- 2) The magnetic field should be larger than the primary lesion
- 3) Gauss Strength should be greater than 25
- 4) Minimal Duration of 20 hours per day of constant usage for no less than 3 months is required in most cases.
- 5) Many natural doctors who use magnets swear by super magnets that are an inch in size and diameter and have over 4000 Gauss.

Russian scientists have used magnetic therapy along with chemotherapy and seen much greater success than using either of the therapies alone. Patients given magnetic therapy have less chemotherapy related symptoms and recover from treatments much quicker (11, 12)

Super magnets are small but pack a ton of Gauss strength. Experts believe this treatment does not damage healthy cells because healthy cells have a different electromagnetic potential than cancer cells. Most believe that super magnets only enhances the function of normal healthy cells.

*In Discovery of Magnetic Health* by George J. Washnis and Richard Z. Hricak quote Robert Barefoot, a bio-chemist who deals with nutrition and disease, as follows: "The loss of energy from natural magnetic fields means that cellular calcium is not maintained in an active ionized state and so reverts to its inert molecular state and is deposited as a solid substance on cells. The benefit of magnetotherapy is the ability of its magnetic fields to raise pH and thereby ionize the calcium, converting it into biologically active calcium ions (13)."



## Budwig Magnetic Protocol:

This is from the Budwig Center who has had great results helping people with terminal cancers. I agree with much of their philosophy and protocols.

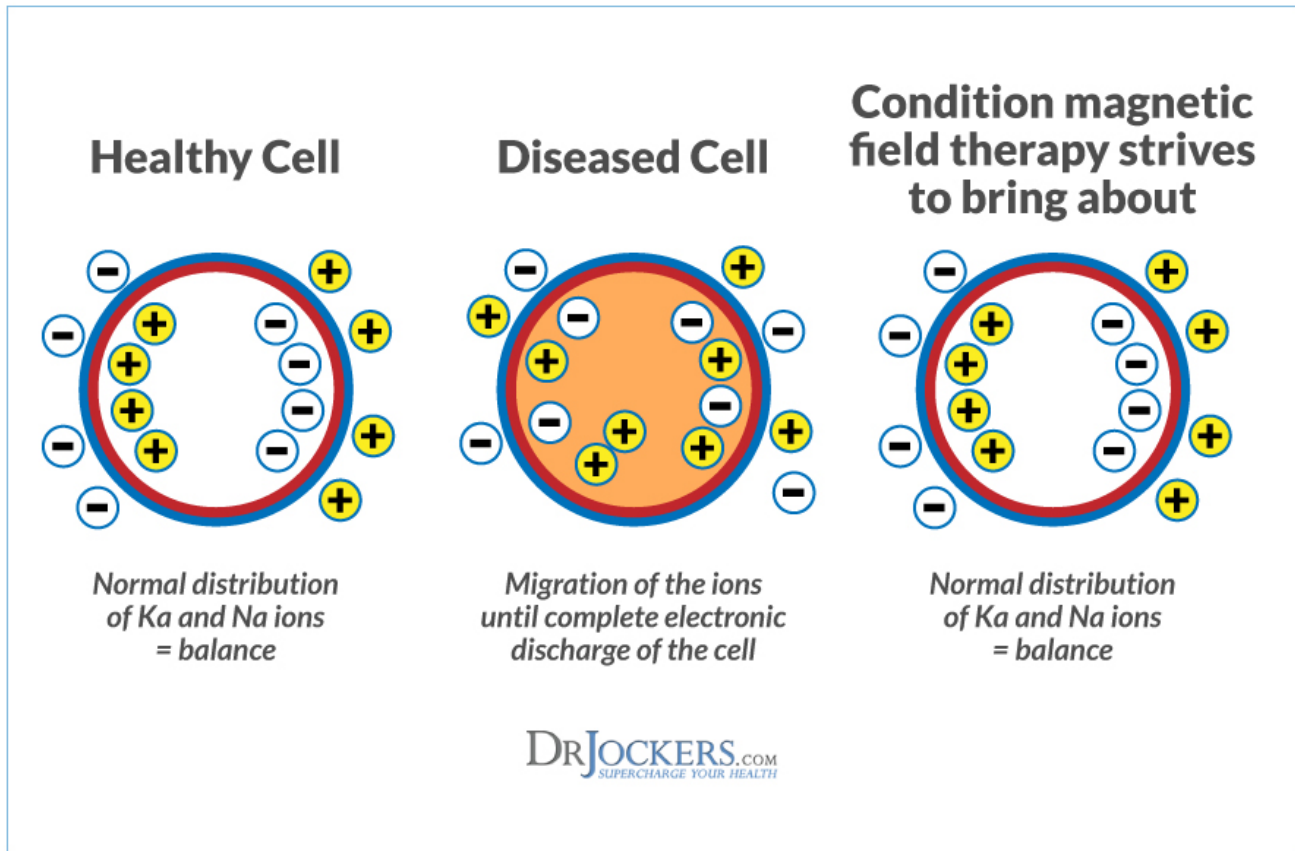
\*This therapy could possibly be dubbed "the lazy man's cure" as you simply sit on, sleep on or wear magnets on your body and you receive the healing benefits. It might seem recommendable for anyone simply as a preventive for any kind of disease. Magnetic therapy combined with the Dr. Budwig formula creates a powerhouse of healing (14).

Dr. Philpott treated a woman, aged 71, who had a basal cell carcinoma on her forehead as a result of intense sunburn. Every night, Dr. Philpott had the woman sleep with a 12,300-gauss magnet placed, negative side down, directly on the cancerous area. In 6 weeks, this pathological spot had dried up and peeled off without a scar, reports Dr. Philpott. Five years later there was still no reappearance of the cancer.

Woman, aged 75, who had a melanoma tumor on her forehead. Dr. Philpott had the woman wear a 3950-gauss magnet over the cancerous growth for 24 hours a day for 3 months. After one month of this treatment, the tumor stopped growing and its soreness eased up; then the tumor started to recede and dry up; after 10 weeks, it literally fell off her forehead.



**Neo** will be effective over a radius of 6 to 8 inches and penetrate 5 to 6 inches into the area. Rated at 12,300 gauss core/1,500 gauss surface ideal for breast, liver, pancreatic, melanoma, forehead, stomach cancer and tumors – attaches with Medical tape.



## How Does Medical Magnetic Therapy Work?

A negative pole magnetic field is applied to the cancer. This changes the pH of the cells, which are too acidic, (cancer cells operate in a pH acid state) making them more alkaline, which is favorable to healing. In addition, the negative magnetic field releases oxygen bound up in the acids of the unhealthy cells. The oxygen then diffuses throughout the cells, restoring health and vitality (15).

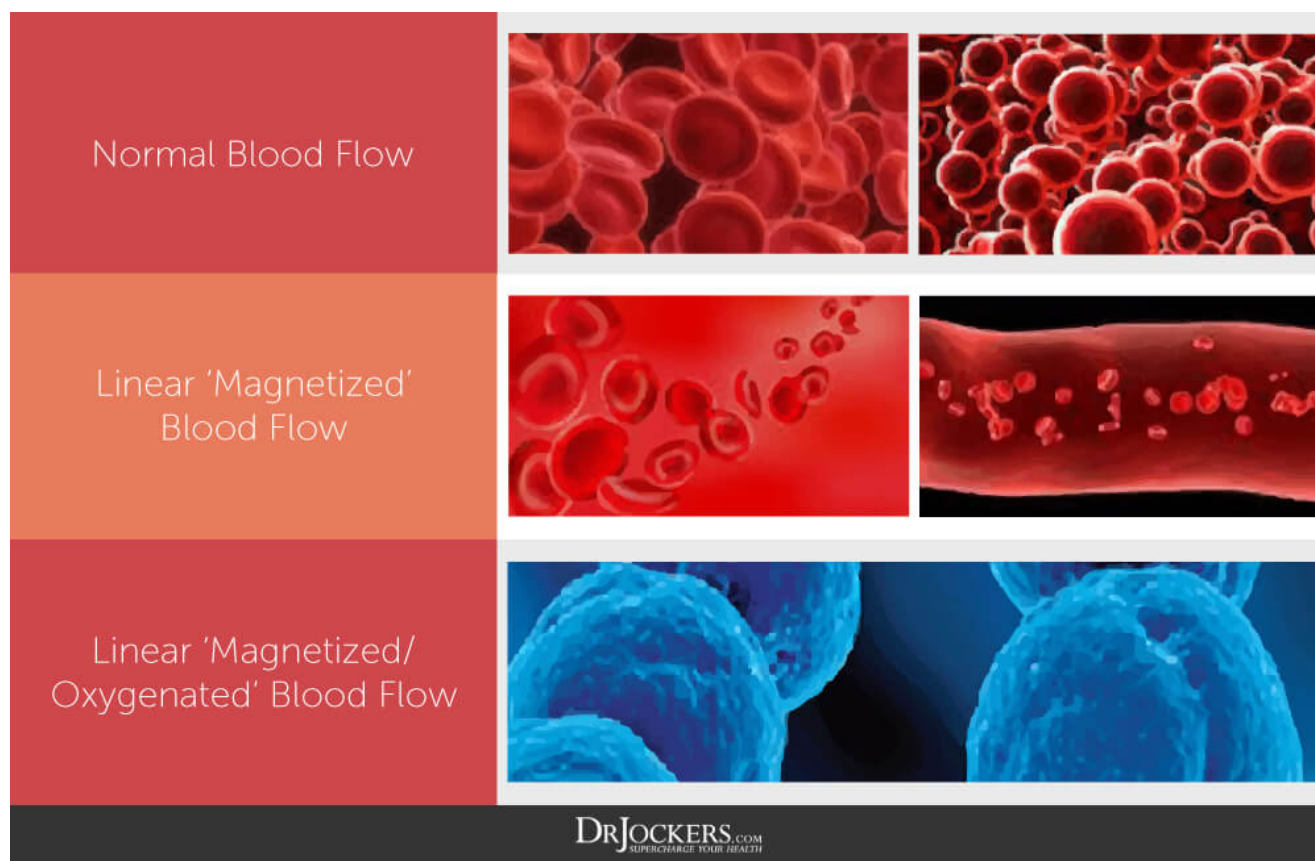
A male diagnosed by biopsy of having a prostatic cancer with bone metastasis to the sacral area was treated continuously over the sacral and lower abdominal areas which would radiate into the pelvic area and thus place the pelvic area in the magnetic field. Three months later there was no evidence of bone cancer on X-Ray. The PSA had changed from an original abnormal 28 to a normal 2.

A male in his late 20's with an inoperable glioblastoma of the brain which had rendered him unconscious and completely unresponsive to the environment was corrected by a continuous negative magnetic field applied to the head. We offer two possibilities:

*This very comfortable **MAGNETIC HAT** uses special neodymium magnets placed strategically on the inside rim. People with a brain tumor wear the hat during the day and sleep on a **MAGNETIC PILLOW** at night, thus receiving 24/7 therapy.*

A female with cancer of the lung with a symptom of loss of appetite breathed negative poled oxygen for a period of four hours and her appetite returned.

A male with cancer had been treated with chemotherapy. Two years later the oncologist decided it would be wise to undergo a second course of chemotherapy. During his first chemotherapy treatment he lost his hair and his fingernails and toenails. During the second course of chemotherapy he did not lose his hair, fingernails or toenails.



## Magnets and Cancer from Dr Philpott:

With Cancer there are two factors that are always present. Those two factors are pH acid (instead of pH alkaline state) and lack of oxygen. Medical magnets manipulate those two factors in a totally natural way.

The body through its mechanism of the nervous system and cells that surround the nervous system concentrates the negative electromagnetic field at the site of injury for healing. However the magnets must be kept in place 24/7 to maintain the negative magnetic field and in order for healing to occur.

## Contraindications for Magnet Use:

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Contraindications to using magnets include pregnant women, individuals with pacemakers and individuals who are hemorrhaging.

Magnets appear to be a safe and effective therapy although there is a lot of variability in results that is based on the size, strength, positioning and time of usage with the magnets. It is best to use magnets under the guidance of a trained professional for best results.

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A promotional graphic for a health newsletter sign-up. On the left, a smiling man in a blue polo shirt is shown. Behind him are two book covers: one titled "Digestion & Energy Quick Start Guide" with a green leaf logo, and another titled "10 FAT BURNING DESSERT RECIPES" featuring various desserts. To the right of the books, the text "Sign up to get:" is followed by a list of three items, each preceded by a checkmark: "Digestion & Energy Quickstart Guide", "10 Fat Burning Dessert Recipes", and "Premium Health Newsletter". Below this list is a large orange button with the text "SIGN ME UP!" in white capital letters. The background consists of blue and white geometric shapes.

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