

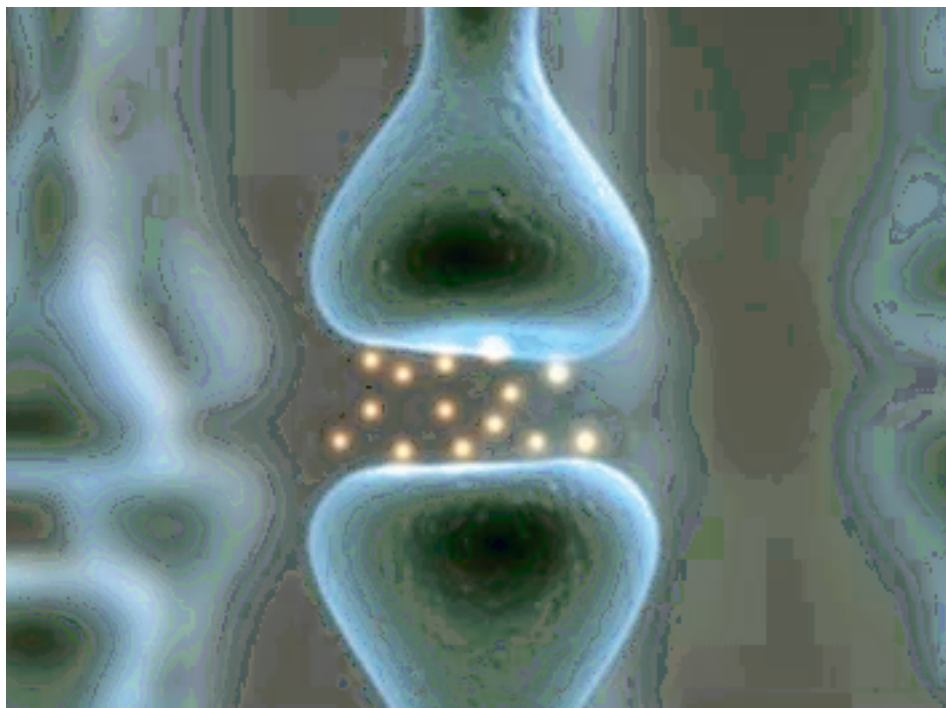
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MPulsed Electromagnetic Field Therapy for Cancer and Pain

Posted by Dr Sircus on December 28, 2012 | Filed under Cancer, Medicine 31

An FDA-Approved Cancer Treatment



Description:

<http://www.chronicpainreliefnow.com/images/microcurrent-met.jpg>

Novocure™ has a new FDA-approved weapon (NovoTTF-100A System™) for patients and physicians in the battle against cancer (specifically for treating recurrent brain tumors). Microcurrent therapy is a novel anti-mitotic treatment that has been shown to slow or reverse tumor progression by inducing cell death in certain solid tumors. Their microcurrent

device will be available for prescription use in the U.S. initially through several noted brain cancer research centers.

Pulsed electromagnetic field (PEMF) therapy has been used to treat almost every conceivable human illness or malady, including many inflammatory diseases such as arthritis or psoriasis and you don't have to wait for the FDA to approve this treatment for your kind of cancer. All you have to do is choose among the many options in terms of equipment.

Pulsed electromagnetic field therapy (PEMFT), also called pulsed magnetic therapy, pulse magnetotherapy, or PEMF, is a reparative technique most commonly used in the field of orthopedics for the treatment of non-union fractures, failed fusions, congenital pseudarthrosis and depression. In the case of bone healing, PEMF uses electrical energy to direct a series of magnetic pulses through injured tissue whereby each magnetic pulse induces a tiny electrical signal that stimulates cellular repair.

Many studies have also demonstrated the effectiveness of PEMF in healing soft-tissue wounds, suppressing inflammatory responses at the cell membrane level to alleviate pain and increase range of motion. The value of pulsed electromagnetic field therapy has been shown to cover a wide range of conditions, with well-documented trials carried out by hospitals, rheumatologists, physiotherapists and neurologists. In years past this has been a very expensive form of therapy using sophisticated equipment, but that has all changed.

Frequency specific pulsed electro-magnetic fields (PEMF) are the most effective and cost-efficient option for the widest range of human and veterinary disorders regardless of etiology. PEMF therapy does not treat medical conditions; instead it up-regulates the body's functions and optimizes the body's ability to heal itself.

PEMF provides stunning regenerative effects because these magnetic fields result in cells generating so much naturally derived energy that they are able to heal themselves. A magnetic switch turbocharges cellular energy production and reduces oxidative stress.

Description: Fig1

Dr. William Pawluk, MD, MSc, is one of the most knowledgeable and experienced medical doctors in the field of pulsed electromagnetic therapy and has written extensively about it. He also has a company that sells several products that he claims promote healing with this technology. He says:

Magnetic fields also affect the charge of the cell membrane, which allows membrane channels to open up. These channels are like the doors and windows of a house. By opening cell channels, nutrients are better able to enter the cell, and waste is more easily eliminated from the cell. This helps to rebalance and restore optimum cell function. If you restore enough cells, they will all work more efficiently. Cells of the same type come together to make tissues, and those tissues come together to make organs. So, by restoring or maintaining cellular function, you will, in turn, restore or maintain organ function, allowing the entire body to function better. We all know that the body ages over time. Maintaining the function of every individual cell at an optimal level every day is an important part of slowing aging.

Cellular "injury," the state of a cell when it is not healthy, leads to disease conditions. Magnetic fields protect against cell injury by improving circulation, repair processes and energy, and increasing special stress proteins in the cells. These proteins are used to prevent cell breakdown and wear and tear as well as help speed recovery from injury. Magnetic fields balance cells, tissues and bodily functions at very fundamental levels, even before damage and problems become obvious to you."

Dr. Pawluk sells 12 different units on his site starting at \$350 and up to about \$4,000 dollars for professional models. In this essay I am presenting the lower end of the price range. In another chapter I will introduce top-of-the-line equipment that starts at \$3,000 and climbs quickly up to \$25,000. All of this equipment is helpful and if one is faced with dire medical circumstances and can afford it, it would be wise to investigate this area of medicine.

The Price of this Device Changes Everything

Though it is a low powered unit the ActiPatch is a drug-free micro medical device that uses pulsed shortwave therapy to reduce pain and inflammation. Previously, this safe and effective therapy was only available in clinics and hospitals. This new micro device provides extended duration treatment that metabolically stimulates the injured cells to push them through the inflammation and pain phase of healing. The ActiPatch is extremely safe and comfortable to wear. The low-level current that is gently pulsed into damaged tissue is not discernible, even though the device is continuously working to speed up the natural healing process.

Description: <http://bielcorp.com/wp-content/uploads/2010/06/RRXDevicellustration-2-570x368.jpg>

A major benefit of the ActiPatch (or any device utilizing microcurrent or PEMF technology) is that it is completely drug-free. Any pain reliever, whether prescribed or over-the-counter, has potential side effects and potential negative impact on a person's life performance. Pain relievers may cause complications with other medications or worsen a user's other conditions, such as high blood pressure or diabetes, because they affect the whole body, not just the targeted injured areas.

One of the best things about this device is its price. For only \$30 one literally gets 720 hours of pain-relieving, inflammation-reducing therapy by a real medical device. That's the price for most of the world, but for Americans I am sorry to say it's not available except for similar products sold to surgeons, the prices for consumers start at over \$200 for very similar devices to this 30 dollar patch.

Description: http://www.painsolv.co.uk/painsolv/siteimages/painsolv_lanyard.jpg

One of the most promising lower cost but higher powered units is this PainSolv machine for \$200 dollars. This technology enables patients to administer their own treatment and that has to be one of most important healthcare strategies. More and more patients are looking to non-pharmacological pain management techniques to aid their recovery experience. Pulsing electromagnetic field therapy does not interact with medications but will act in synergy with natural substances that are also life-giving instead of life-destroying, which most pharmaceuticals are, especially those designed for inflammation and pain.

Doctors commonly prescribe medications to help patients manage their discomfort and swelling, but common painkillers have unpleasant side effects such as nausea, dizziness, fatigue, confusion, diarrhea and flu-like symptoms.

The ActiPatch is designed to be applied to and treat the immediate area that is injured or swollen. Because there are no known side effects and the patch itself has a low profile once applied, it won't interfere with your daily life while providing pain relief. Since the ActiPatch is most effective on soft tissue injuries, it is ideal for treatment of common injuries. People suffering from sore backs, sore shoulders, or tennis/ golfer's elbow will all experience relief with this technology.

Most approaches to pain do not provide continuous therapy to solve inflammation. This type of technology offers a unique mechanism that shuts down the body's inflammatory response, pushes tissues into a reparative phase through increasing the blood flow, and through signaling the cells to re-communicate and regroup.

ARIAL provides gbo HiTop devices for patients.

The Sota Magnetic Pulser, according to the ad, is a powerful pulsing device, yet a very simple system that is used for 20-minute sessions. It has a paddle applicator attached to the control unit, and comes in a travel case. It produces a peak magnetic field with intensities close to 6,000 Gauss on the surface of the paddle. At 9 inches away from the coil, it still produces about 8 Gauss. It is capable of producing such high intensity because of its unique design. The system operates somewhat similarly to the flash in a camera—it charges up, then releases a pulse, then recharges, then releases a pulse, and so on. It pulses at less than one cycle per second. Because of the way the pulses are released, the Sota does not have a true waveform. Instead, it releases a “spray” of frequencies (at or around 4.7 Hz) with each pulse. The unit runs for 20 minutes.

The Sota is ideal for problems deep within the body because of its higher intensity. It can really be used anywhere—with joints, scars, swelling, etc. Because the coil is encased in the plastic paddle, it will get relatively warm during the treatment cycle. If you intend to use the system for more than one treatment cycle in a row, you may want to put a towel between you and the paddle so that the heat does not become uncomfortable.

I have been using pulsing electro-magnetic field therapy for about three years now. Prior to that I suffered from serious migraine headaches that would sometimes last for several days. After many failed attempts to find a medication that would help, my barber recommended I try pulsing electro-magnetic field therapy. As a result I have been migraine free for over two and a half years.

- Craig A. Watts

Dr. William Pawluk said:

One generally needs a stronger magnetic field to penetrate deeper into the body. If the magnetic field has to go more than a half an inch into the body, then it needs to be fairly strong to have relatively rapid results. Very weak magnetic fields can still produce results, but they can be frustratingly slow, or even ineffective for your problem. If, for example, you have a headache that will require 10 aspirin to relieve, and you take only two aspirin, then you will experience two-tenths worth of relief. You will likely become frustrated with the aspirin, on which you spent money trying to obtain relief. You may come to the conclusion that aspirin is an ineffective treatment. The truth, of course, would be that it was not the aspirin that was ineffective, but the dosage.

If you were to purchase an inexpensive, perhaps disposable device, which we know has limited strength as well as a limited lifespan, its inability to produce results may lead you to dismiss the entire gamut of PEMF devices. In this case, like in the case of the aspirin, it is not the treatment that is ineffective, but the dosage, or, with a PEMF system, the choice of device itself. These kinds of experiences lead people to believe that PEMFs don't work and they don't last, and causes people to be unlikely to try them again, even if an appropriate device is recommended.

One can use intense 30-minute therapies along with the ActiPatch 24/7 for a combined therapy that will exceed one treatment device alone. An inflammatory breast cancer patient can sleep with a patch on each breast or leave it there 24 hours a day while continuing many other therapies. In fact any breast cancer or other problem will be helped with direct treatments to the breasts.

This technology is already being used for cosmetic surgery patients who undergo breast augmentation and other surgical procedures. Patients using pulsing electromagnetic field therapy report half as much post-procedure discomfort as patients who do not use this technology.

Description: Improved blood supply

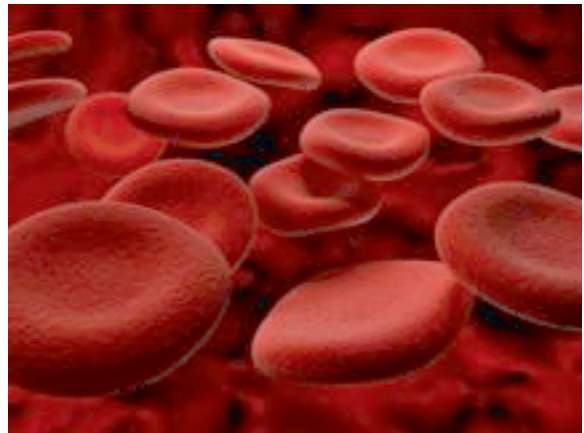
Improved blood supply, more space between cells

In 1982 Ngok Cheng published, "The Effect of Electric Currents on ATP Generation, Protein Synthesis and Membrane Transport in Rat Skin" in *Clinical Orthopedics*.^[1] This study showed that microcurrent increased ATP production in rat skin by 500%. ATP is the chemical that the body uses for energy. The current also increased amino acid transport into the cell by 70% and waste product removal. The implications for human healing and repair are obvious. ATP production was increased as long as the current was below 500 microamps. When the authors increased the current to 1000 micro amps, or one milliamp, a current range delivered by TENS devices and other types of electrical stimulation therapies, the ATP production was actually reduced.^[2]

Microcurrent Used to Shrink Cancerous Tumors

During the 1950's, a Swedish radiologist and surgeon, Dr. Björn Nordenström demonstrated that the positive polarity of microcurrent, passed through needles implanted into cancerous tumors, blocked cancer pain and in many cases caused the tumors to regress or disappear. He theorized that this treatment set up a form of electro-osmosis that dehydrated the tumor and blocked production of pain-producing substances such as histamine.

Review the above videos on Nordenstrom's work to see how deep this scientific rabbit hole goes. There are many brilliant people who know that healing can only be effected if the precise



amount of electromagnetism required is provided—one way or another—to effect a change in the function of particular diseased cells.

What cancer patients need to know is that they need light, they need energy, and they need alkaline tissue to get the maximum amount of oxygen to the cells. According to a scientific article in “Health & Diet Times” (June/July 1982 issue) written by Dr. Lee de Vries, cancer cells self-destruct within minutes after exposure to strong intense light.

[1] The Effect of Electric Currents on ATP Generation, Protein Synthesis and Membrane Transport in Rat Skin in Clinical Orthopedics, volume 171: pages 264-272.

[2] Microcurrent Electrical Therapy Mechanisms and Results;
Daniel L. Kirsch, PhD, DAAPM, FAIS; Practical Pain Management:
<http://www.practicalpainmanagement.com/treatments/microcurrent-electrical-therapy-mechanisms-results>
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