

Bio-Energetic Therapy: Pulsed Electromagnetic Wave



Every human being is made of individual cells that numbers to the trillions. Yet each cell knows exactly what to do and behave in a healthy person. Research has found that diseased cells are characterized by low energy levels and low metabolic rate. (Healthy cells have a membrane potential of 70 mvolts, while diseased and cancerous cells have a membrane potential of lower than 50 mvolts). Many therapies like thyroid hormone replacement help increase the energy production of every cell. Those that have hypothyroidism know how it feels like: fatigue, lethargy, cold, depressed, constipated, weight gain, hair loss, coarse skin, edema.....



Energy is everything

Now imagine adding a sudden burst of energy to the nuclear reactor of each cell! In ways never before conceivable, an external application of pulsed electro-magnetic wave can transfer this energy directly to the cells instantaneously. As the energy is transferred, the cells are then able to do extra work. Energy is everything!

The PAP-IMI device produces extremely short broadband magnetic pulses non-invasively into the body up to a depth of 16 cm. Extra energy allows for repair, accelerate transport of nutrients from outside the cell, fire up the metabolism for synthesis of proteins and DNA, RNA, enzymes. Suddenly, swelling and pain improves, immune system's balance is restored, cells are energized to heal, fatigue and depression lifted, and infection and cancer are checked!

The Power of a thunderbolt in your hand-Lightning Fast



There are many primitive systems for the last many years that tried to convey this energy, with limited success. Not until the discovery and refinement of the PAP-IMI ion magnetic inductor has this remarkable energy been realized. The power of a thunderbolt in your hand, instantaneously energy is transferred and one can immediately realize the power related to areas of pain, areas of weaknesses!

The levels of magnetic flux density generated by the PAP-IMI (120-135 gauss) are considered safe for humans. Gauss is an electromagnetic unit of magnetic flux density. It is measured in centimeter-gram-seconds. No significant adverse side effects immediately or long term have been reported after ten years of experience in Europe, Canada and other countries around the world.

An Amazing breakthrough in Pain Relief-the Spark of New Life



Dr Wong has been treating pain for over 10 years, and over twenty thousand patients experience. Never has a device so unique, effective, non-invasive, research proven, worldwide and broad spectrum been available like the PAP-IMI. Its unique properties make hard to treat pain possible. Combined with prolotherapy, neural

therapy, oxygen therapy, mesotherapy, homotoxicological therapy, electroceutical therapy, acupuncture and auricular therapy, nutritional and herbal medicines, many patients will experience amazing and non-drug, non-surgical, non-toxic, non-invasive breakthrough!

Not only is pain alleviated, Post treatment, patients report sense of well being, depression lifted, improved mental clarity and focus. These "micro-lightning" pulses of one millionth of a second at a rate of 2-3 pulses for second produces a magnetic field that penetrates deep tissues. Even plants and animals have received fantastic healing, and seeds, water and inert materials can receive and store such energy. 89% success rate has been achieved in European studies on pain, inflammation, and edema.

Mechanism of Action

It is speculated that body cells can receive the external energy applied to normalize the difference in trans-membrane potential. There is atomic excitement, stimulating the spin of the electron to store energy that could last as long as three days. The battery of the cell can be charged up and the metabolism improved, resulting in increase work of repair, absorption of nutrients, thus decreasing pain and inflammation.



The pH of the cell can be reduced to a hundred times more alkaline, allowing better uptake of nutrients and oxygen. The magnetism is transferred to the red blood cells, which help them repel each other, preventing stickiness, and thus improving oxygen transport. The viscosity of fluid is decreased 16 folds, allowing lymph and

water to flow through lymph channels and cell membrane. The transfer of the electro-magnetic energy through the neural pathways swamps the C-fibers from accessing the neural gates which allow the pain signal to stream to the brain.

There is less pain perception as the signal is reduced. Bone and wound can heal in one-third the time as the cells go turbo charged. The electrical micro-currents created by PAP-IMI can activate the body's immune system to normalize and repair. The endocrine system also improve and hormone secretions augmented. Nothing can heal the body than its own cells. Give the cells more energy, everything can get better!



A method that would allow doctors to tweak the innards of cells without even touching a patient's body is being developed in the US.

The technique is still in its infancy, and it is still not clear exactly what it does to cells. But initial experiments suggest it might one day be possible to use the technique to treat cancer, speed up healing or even tackle obesity.

The method involves exposing cells to an extremely powerful electric field for very brief periods. "The effects of these pulses are fairly dramatic," says Tom Vernier of the University of Southern California in Los Angeles, who will present some of his team's results at a nanotechnology conference in Boston in March. "We see it as reaching into the cell and manipulating intracellular structures."

Applying electric pulses to cells is not new. In a technique called electroporation, electric fields that last hundreds of microseconds are applied to cells. The voltage charges the lipid molecules in the cell membrane, creating transient holes in the membrane. The method can be used to help get drugs or genes into cells.

Major physiological event

But the latest technique involves more powerful electric fields, with gradients of tens of megavolts per metre, applied for much shorter

periods. These nanosecond-pulsed electric fields are too brief to generate an electric charge across the outer membrane of cells, but they do affect structures within cells.

One of the main effects seems to be calcium release from a cellular structure called the endoplasmic reticulum. "In a nanosecond, we cause this major physiological event in the cell," says Vernier. "It's completely indirect and remote, and it's an extremely rapid transition."

The nanopulses can also trigger cell suicide. Teams led by Vernier, Karl Schoenbach of Old Dominion University and Stephen Beebe of Eastern Virginia Medical School, both in Norfolk, Virginia, have shown that nanopulsing can kill tumour cells in culture.

The pulses do not just fry cells, but lead to changes such as the activation of enzymes called caspases, an early step in cell suicide. How the pulses do this is not clear, but Vernier says the effect is not related to calcium release.

Cell suicide

So could nanopulsing help treat cancer? In a preliminary test, Schoenbach and Beebe used needle-like electrodes to generate pulses near tumours in mice. Nanopulsing slowed the growth of tumours in four mice by 60 per cent compared with tumour growth in five untreated mice. The researchers hope that with better delivery systems they could make the tumours shrink.

Beebe's team has also found that the pulses can trigger suicide in the cells that give rise to fat cells, possibly opening up a new way of treating obesity, Beebe speculates.

And Vernier is working with doctors at the Cedars-Sinai Medical Center in Los Angeles to see if nanopulses can speed up the healing of wounds. "We do see an effect, but that's about all I can say now," he says.

The next step is to develop a way to deliver the pulses to cells and organs deep within the body. Theoretical models suggest that nanosecond pulses of broadband radio signals could do it. "An array of such antennas would create, through superposition of electric fields, a very high electric field right where we need it," says Schoenbach.

PAPIMI device saved a Ski World Champion's leg and gave him the opportunity to claim a brand-new medal
PAPIMI device saved a Ski World Champion's leg and gave him the opportunity to claim a brand-new medal



Hermann Maier, with the nickname "Herminator", is former Ski World Champion 3 times, 2 times Olympian Champion and now with his last victory, he became the unbeatable Hero of Austria.

He had a motor accident 18 months ago in which he almost lost his leg. He was out for 2 yaers.

He started PAPIMI treatments early January 2003, after Georges Alexander Von Breunig's, Chuck Wallach's and Panos Pappas' recommendation.

Two weeks later, he started ski racing again for the first time. His comeback became the sensational news in Europe. In last week's championship he became 10th, then 6th, then unexpectedly for everybody he was the 1st in the international slalom racing on Monday, January 27, 2003.

This was one of the biggest sensations in Austria and Western Europe.



Photos of Herman Maier with Dr. Pappas, the PAPIMI device inventor, and Katja Schmidt, PAPIMI device representative for Europe. Austria, Jan. 20, 2003.



Energy pulses could target cancer
Doctors may one day be able to use powerful electric fields to help destroy cancer cells from outside.

US researchers say they can use energy pulses - which last a tiny fraction of a second - to attack the cell without harming its healthy neighbours.

The pulses do not physically destroy the cell, but appear to start a process which makes them "commit suicide".

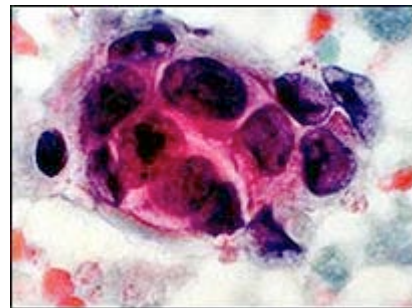
The technique, reported in New Scientist magazine, could also be used to tackle obesity, say experts.

Currently, surgery, chemotherapy or radiotherapy are used to destroy cancer cells.

The "nanopulse" system is closest to radiotherapy, but may perhaps offer a gentler alternative to radiation.

Non-invasive

The electric field could in theory be focused on a tumour sited deep inside the body using antennas placed around the body.



The field can penetrate cancer cells

By fine-tuning the frequency of the field, it may be possible to target only particular cell types, and hopefully spare healthy tissue around the tumour.

The short duration of the pulses - measured in hundreds of microseconds - are designed to prevent the outer membrane of the cell "charging up" fully and acting as a shield for its contents.

Researchers at the University of Southern California at Los Angeles, and Old Dominion University in Norfolk, Virginia, have shown that, in a laboratory dish at least, "nanopulses" can kill tumour cells.

The Virginian team has also slowed the growth of tumours in mice using the technique.

'Reaching in'

Professor Tom Vernier, from the Los Angeles team, said: "The effects of these pulses are fairly dramatic.

"We see it as reaching into the cell and manipulating internal structures."

The only detectable physiological change within the cell is a release of calcium from a structure called the endoplasmic reticulum.

Although this would not seem to be able to have any direct impact on whether a cancer cell lives or dies, it is taken as evidence of the power of the pulse to influence the make-up of the cell.

The Virginia team has also found that they can use the same method to trigger suicide in cells which can become fat cells - perhaps offering a technique to help control obesity, they believe.

In the UK, a team at Imperial College London and Loughborough University is pursuing the same goal.

Dr Michael Kong, from Loughborough, said that the use of electric fields in this way was a "hot area".

"There are only about three or four groups in the world working on this, but I would expect others to start when they see the potential.

"It's an exciting new field - no-one knows exactly how this effect happens."

PAP-IMI Ion Magnetic Inductor

-PAP IMI stands for PAP (technology developed by Professor P.T. Pappas) Ion Magnetic Induction.

PAP IMI is an advanced pulsating electromagnetic field generator that develops electromagnetic bio-energy. The PAP IMI device generates a pulsating electromagnetic field (PEMF).



Conditions that may respond to the Ion Electro-Magnetic Inductor Energy:

Pain-Acute and Chronic

Headache-Migraine, tension, daily cluster
Neck pain with spondyloarthropathy, facet joint disorder
Low Back Pain with spondyloarthropathy
Sciatica
Knee pain with meniscus injuries
Fibromyalgia-Musculoskeletal Pain
Neuropathic pain
Complex regional pain-Reflex sympathetic dystrophy
Phantom Pain
Herpetic neuralgia
Temporo-mandibular pain
Arthritis Pain-finger osteoarthritis
Diabetic neuropathy
Carpal tunnel syndrome
Hip avascular necrosis, Hip degenerative arthritis, Hip prostheses
(loosened)
Anterior cruciate ligament tear
Frozen shoulder
Non-specific tendonosis
Plantar fasciitis
Bursitis-trochanteric, Olecranon
Epicondylitis-medial and lateral
Neuralgia-trigeminal, facial nerve

Auto-immune disease

Multiple sclerosis
Rheumatoid arthritis
Lupus Erythrematosis
Polymyositis
Chron's disease
Inflammatory bowel disease
Pancreatitis
Rheumatic disease

Chronic Infections

Hepatitis A,B,C
Ebstein Barr virus
Cytomegalovirus
Recurrent herpes simplex virus
Lyme disease
Erlchiosis
Chronic candidiasis

Chronic gum diseases
Chronic non-healing osteomyelitis
Non healing ulcers

Neurological disease

Parkinson's disease
Dementia
Amyotrophic Lateral Sclerosis (Lou Gehrig's Disease)
Insomnia
Enuresis
Acute and post stroke rehab
Spinal cord injury
Macular degeneration
Glaucoma

Bone Disorders

Non-union fractures
Hip aseptic avascular necrosis
Scaphoid fracture of the wrist
Chronic Osteomyelitis
Osteoporosis

Endocrine Disorders

Adrenal insufficiency
Chronic Fatigue
Thyroid disorders
Diabetes
Hypertension
Edema
Eudometriosis
Pre-menstrual syndrome
Menstrual irregularities

(Please Note: Current FDA regulations do not allow any claim of its effectiveness, this assay represents only the opinion of world wide research in the last few decades. PAP-IMI device is allowed under research purposes only for painful conditions. Grace Life Medical Center is an approved site of Medical Research for the Pusled Electro-Magnetic Therapy)

Precautions

(Information quoted from A Clinical Study Evaluating the use of PAP Ion Magnetic Inductor (PAP-IMI) in the management of pain. Study Number: BDS PAP 001)

Pacemakers: As with all diathermies, the device should not be operated within ten feet of an individual with a cardiac pacemaker or other bio-electronic device.

Insulation: The subject should be placed on a well insulated, non metallic or non conductive bench, table, or bed.

Water spills: As with all electrical appliances, contact with water or conducting liquids should be avoided. If a water or liquid spill should occur on the insulating platform or in the device area, the machine should be immediately switched off and disconnected from the mains power until the area is completely dry.

Divestiture of metal objects and electronic devices: Both the subject and the operator must divest themselves of all metal objects before treatment, including watches, jewelry, keys, credit cards, and any metallic pocket contents. Even a small mass of metal can reduce the output of the probe and the safety of the treatment. Electronic beepers, calculators, mobile phones, tape recorders, electronically sensitive keys, remote control devices, and credit cards with magnetic strips should be kept at least three feet from the probe during operation.

Use of two machines simultaneously.

Contraindications for Special Medical Conditions (applicable to all diathermies).

Blood pressure: As with other pulsed diathermies, blood pressure may be lowered after treatment due to dilation of small blood vessels; this is a transient condition that quickly passes, but a short post-treatment rest period is suggested for hypotensive subjects.

Hemorrhagic tendencies: Caution should be used in treating subjects with hemorrhagic tendencies or within 24 hours of surgery on internal organs to avoid a possible increase in bleeding or edema. Also exposure near areas where catheters are inserted is not advised. Diathermy is also contraindicated for subjects with purpura and hemophilia. It

should not be applied to the back or abdomen of subjects who have peptic ulcers, which have bled recently. Although no problem has been encountered in the many effective treatments of dysmenorrhea, the possible increase in menstrual blood flow should be considered.

Hormone levels: As with other pulsed diathermies, some organs may temporarily increase their hormone output after receiving a diathermy treatment. This factor should be considered in evaluating the subject and establishing treatment protocols.

Medication: As with other pulsed diathermies, exposures may tend to enhance the effectiveness of drugs. So this is a factor to consider in subjects where heavy medication may be contraindicated. For example, if PAP-IMI treatments were conducted during chemotherapy treatment, the delivery of the chemotherapeutic agent would increase in the treated area negatively impacting the subject's tissues in that region.

Metallic implants: As with all diathermies, subjects with large surgical metallic implants (e.g., loops or semi-closed loops >1 square inch in size) or having metallic intrauterine devices should not be treated in the areas where those devices are implanted. Otherwise, these metal components might overheat and cause thermal damage to adjacent cells.

Pregnancy and Epiphyseal centers

References and research papers

Research organization: Bio-energy services

<http://www.papimi.gr/>

<http://www.papimi.com/>

<http://www.papimi.dk/>