

**What is the Nanopulse PAP-IMI therapy system?**

Nanosecond, electropulse, impulse (the medical term is nanopulse)

The *Nanopulse PAP-IMI therapy system* is a medical ion induction therapy system certified by the German safety standards authority TÜV. It is used to promote therapeutic and regenerative processes, especially in case of injuries, edema, and even serious diseases such as cancer, and to relieve pain.

In addition, it has been successfully used for performance enhancement and performance maintenance in the fields of health and sports.

There is also evidence that the *Nanopulse PAP-IMI therapy system* especially boosts the immune system of the body, which is an outstanding result considering there are no side effects.

The *Nanopulse PAP-IMI therapy system* was developed by the physicist and mathematician **Prof. Dr. P. Pappas** from Greece at the beginning of the nineties of the 20th century. Based on an induction pulse generator, which originates from research on nuclear physics, the device produces a voltage of 40,000 V. The energy produced is transferred via a tube to a plastic ring in the form of magnetic fields. From there, it exerts a gentle effect on the treatment area of the human or animal body through the application of cyclic nanosecond pulsed electric fields (nanopulses).

These magnetic fields penetrate about 20 cm into the body. According to **Faraday's Law**, the cells are exposed to the **different forms of energy mentioned below by the conversion of magnetic fields into cyclic nanopulses/impulses in an extremely short time of about 1/1,000,000 s.**

This extremely short time prevents temperature changes or genetic cell changes and, thus, adverse side effects or aftereffects from occurring.

The forms of energy resulting from nanopulses are the following:

- Working energy (ensures the provision of energy to the functional circuits of the cell)
- Combustion energy (conversion of glucose to ADP & ATP)
- Information energy (coordination of the different functions of the cell)
- Transformation energy (integration and transformation of electromagnetic signals)
- TMP (Transmembrane Potential) energy
- Energy for growth (form and function)
- Specific energy (molecular composition of the tissue)

The balance between these various forms of energy, which is normally produced by the mitochondria (powerhouses of the cells), ensures the maintenance of optimal cell function.

**If the balance of these energy forms is disturbed or disrupted, the *Nanopulse PAP-IMI therapy system* may decisively contribute to the recovery of optimal cell function. For scientific research results, please visit also the Internet:**

**<http://www.ncbi.nlm.nih.gov/sites/entrez?db=pubmed&cmd=DetailsSearch&term=%22Schoenbach+KH%22%5BAuthor>**

It is known from experience that these various energy forms have the following positive effects on human and animal organisms:

- Stimulation of the production of enzymes and hormones
- Increase in cell membrane potential
- Increase in the permeability of the cell membrane for ions
- Increased DNA and RNA synthesis
- Increased protein synthesis
- Increased production of collagen
- Optimized cell growth and cell differentiation
- Better immune response against bacterial infections
- Increased formation of red blood cells
- Improvement of the immune system
- Increased formation of antibodies in the spleen
- Increased production of prostaglandins
- Activation of the ion metabolism
- Stimulation of the production of cellular energy via the ADP/ATP system

**The Ski World Champion *Hermann Maier* benefited from the advantages of the *Nanopulse PAP-IMI therapy system* using expert help from his orthopedic and other specialists. His spectacular comeback provides evidence for the efficiency of the *nanopulse PAP-IMI therapy system*, not only in the therapeutic treatment of nerve and muscle tissue and bones after his serious accident, but also in the field of performance enhancement and performance maintenance after successful rehabilitation and his return to competitive sport. According to the opinion of physicians, the efficiency of this therapy is mainly due to the dynamic effect of nanopulses inside the body of *Hermann Maier*.**

The German press wrote (please see Attachment 1):

**The following is a list of the documented advantages resulting from the treatment of athletes and sport horses with the nanopulse PAP-IMI therapy system:**

- **Considerable reduction in the periods of physical inactivity in athletes and horses with injuries through the stimulation of therapeutic and regenerative processes (the period of therapy is about six times shorter compared with conventional therapies)**
- **Stabilization of the general training condition and of the horse's condition for the race through regular energy supply**
- **Performance increase and maintenance through continuous energy supply by regular application of the *Nanopulse PAP-IMI therapy system***

In the last six years, researchers in medical sciences have assigned a special and clearly defined role to nanopulses in the treatment and cure of diseases.

Research studies indicate that the Nanopulse technology can be used as **an all-purpose or universal technology** for the treatment of any organic disease and, therefore, positively contributes to the effort of any physician to cure a disease.

As of 2004, most medical scientists who used the Nanopulse technology in their studies spoke about the necessity of developing a system that allows the application of nanopulses not only to the body surface but also within the body.

The patented and TÜV-certified medical *Nanopulse PAP-IMI therapy system* was launched early in 1990. Through the production of magnetic fields, the *Nanopulse PAP-IMI therapy system* generates nanopulses, which are a kind of all-purpose or universal therapy inside the body.

Since then, the inventor of the *Nanopulse PAP-IMI therapy system*, Prof. Dr. P. Pappas, has conducted a statistical analysis of the results obtained from 1,100 subjects treated with the *Nanopulse PAP-IMI therapy system* worldwide, and has entered the results into a database for analysis.

The statistical analysis and its positive treatment results refer to about 390 different conditions and diseases and to especially innovative medical results (for details, please visit the Internet: [www.papimi.gr](http://www.papimi.gr) and [www.papimi.com](http://www.papimi.com)).

The results from a clinical study conducted by a research team headed by the physician Prof. Tom Vernier from the University of Southern California in Los Angeles (please see study by Vernier PT, Sun Y, Gundersen MA 2006: Nanoelectropulse-driven membrane perturbation and small molecule permeabilization, *BMC Cell Biol* 7,37) demonstrate **that nanopulses represent a universal medical therapy that make ulcers and fat tissue shrink and wounds heal exceptionally fast (New Scientist 2004).**

**In addition, the team found that healthy cells are not destroyed. Instead, enzymes are activated that cause malignant cells to self-destruct.**

According to the statistical analysis of Prof. Dr. Pappas, all physicians and other users who treat their patients with the *Nanopulse PAP-IMI therapy system* confirm that:

- **Pain of any kind, be it acute or chronic, is effectively reduced (e.g., inflammations, swellings, edema)**
- **The self-healing forces of the body are stimulated, which is, for example, reflected in an increase in the cell's membrane potential and an increase in immune stimulation and antibody formation, leading to more vitality and performance.**
- **No temperature changes, genetic cell changes, or other adverse effects or aftereffects occur as a result of the use of the *Nanopulse PAP-IMI therapy system* in humans or animals.**

**In the last years, numerous scientific studies have shown very positive results regarding the effect of nanopulses.**

- Simulation studies of ultrashort, high-intensity electric pulse induced action potential block in whole-animal nerves. Joshi RP, Mishra A, Song J, Pakhomov AG, Schoenbach KH. IEEE Trans Biomed Eng. 2008 Apr;55(4):1391-8. PMID: 18390330 [PubMed - indexed for MEDLINE] Related Articles

**Result: Nanopulses have a positive effect on neuromuscular disorders.**

- Nanosecond pulsed electric fields induce apoptosis in p53-wildtype and p53-null HCT116 colon carcinoma cells. Hall EH, Schoenbach KH, Beebe SJ. Apoptosis. 2007 Sep;12(9):1721-31. PMID: 17520193 [PubMed - indexed for MEDLINE] Related Articles

**Result: Nanopulses make colon carcinoma cells shrink and induce necrosis in these cells. In addition, they have a similar therapeutic potential as radiation therapy, but without its adverse effects.**

- Subcellular effects of nanosecond electrical pulses. Schoenbach KH, Joshi R, Kolb J, Buescher S, Beebe S. Conf Proc IEEE Eng Med Biol Soc. 2004;7:5447-50. PMID: 17271579 [PubMed] Related Articles

**Result: Nanopulses enhance the activity of genes and have a positive effect on the function of healthy cells.**

- Nanosecond pulsed electric fields cause melanomas to self-destruct. Nuccitelli R, Pliquett U, Chen X, Ford W, James Swanson R, Beebe SJ, Kolb JF, Schoenbach KH. Biochem Biophys Res Commun. 2006 May 5;343(2):351-60. Epub 2006 Mar 10. PMID: 16545779 [PubMed - indexed for MEDLINE] Related Articles  
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**Result: Nanopulses penetrate skin tumor cells and make melanoma shrink by over 90% within two weeks.**

- Nanosecond pulsed electric fields modulate cell function through intracellular signal transduction mechanisms. Beebe SJ, Blackmore PF, White J, Joshi RP, Schoenbach KH. Physiol Meas. 2004 Aug;25(4):1077-93. PMID: 15382843 [PubMed - indexed for MEDLINE] Related Articles

**Result: Nanopulses may both regulate cell function and enhance the capability of the cells to regenerate.**

- Selective field effects on intracellular vacuoles and vesicle membranes with nanosecond electric pulses. Tekle E, Oubrahim H, Dzekunov SM, Kolb JF, Schoenbach KH, Chock PB. Biophys J. 2005 Jul;89(1):274-84. Epub 2005 Apr 8. PMID: 15821165 [PubMed - indexed for MEDLINE] Related Articles Free article in PMC | at journal site

**Result: Nanopulses stimulate intra- and extracellular calcium homeostasis.**

- Diverse effects of nanosecond pulsed electric fields on cells and tissues. Beebe SJ, White J, Blackmore PF, Deng Y, Somers K, Schoenbach KH. DNA Cell Biol. 2003 Dec;22(12):785-96. PMID: 14683589 [PubMed - indexed for MEDLINE] Related Articles

**Result: Nanopulses reduce fibrosarcoma tumors in mice *in vivo* and have a positive effect on the activity of healthy cells.**

The following is an account of my own outstanding experience with *the Nanopulse PAP-IMI therapy system*.

- I received the diagnosis of serious locomotor problems by the orthopedic specialist Dr. A. Bendas, who explained to me the underlying causes of my chronic pain.

In spite of all medical measures taken, my pain, which had lasted for several years, persisted. Therefore, medical specialists suggested two surgical procedures:

- a) one to be performed on the spine and
- b) another to be performed on the right shoulder blade  
because my shoulder was at risk due to ankylosis (stiffening of a joint)

**The unexpected therapeutic effect of the *Nanopulse PAP-IMI therapy system* achieved by the delivery of nanopulses deep into my body allows me today to move without pain and without undergoing surgery.**

- In 2000, I was diagnosed with cardiac arrhythmia in a cardiology practice, which would have required the urgent placement of a catheter. However, my type II diabetes was expected to worsen my heart condition. Therefore, I had to take antihypertensive medications for many years.
- **In 2006, a new cardiologic examination was made in the same cardiology practice. It showed that my heart condition had stabilized.**

**My blood pressure, too, has returned to normal. The intake of antihypertensive medications is no longer necessary.**

**These improvements are also due to the effect of the *Nanopulse PAP-IMI therapy* applied inside my body.**

This account clearly demonstrates the savings that my statutory health insurance company (HEK) has gained from this treatment. The costs of the following procedures were saved:

- **Spine surgery**
- **Operation on the right shoulder (ankylosis)**
- **Heart catheter**
- **No further antihypertensive treatment**
- **Prostate surgery**

**This spectacular device called *Nanopulse PAP-IMI therapy system*, which generates nanopulses inside the body, was invented and launched worldwide by Prof. Dr. P. Pappas.**

**Please note: The specifications of the *Nanopulse PAP-IMI therapy system* cannot be compared to those of electromagnetic pulse devices offered on the market.**

Theofilos Kalabakas

*\* The diagnoses mentioned above will be readily made available to you upon request.*

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To:

Dr. Panagiotis Pappas

Prof. ATEI

ATHENS

Athens, April 21, 2003

Dear colleague,

It is with special delight that I take this opportunity to present to you today the results of our eight-year-long research conducted by our research team at the University on the *PAP-IMI* device. The research was focused on the effect of the magnetic field on plant development, and resulted in the award of five intermediate examination certificates and in a doctoral thesis. All research studies were awarded excellent grades by a three-person committee.

The results from our research are as follows:

- The magnetic field promotes growth and quality of the seed.
- It accelerates plant growth.
- The good quality of the seed can be recovered and enhanced.
- It brings sick plants back to a healthy state so that the production of plants can be increased with respect to quality and quantity.

After continuous treatment of the plants with magnetic fields (60 minutes per day during a 30-day period), no genetic changes were observed.

No laboratory assistant who used the device had temporary or chronic health problems. On the contrary, one coworker with rheumatic problems experienced improvement of the symptoms.

Yours sincerely,

(Signature)

P. Efthimiades