

High-Tone Frequency Therapy Device



WeWoThom Premium

Product Information

... living without pain





Dear WeWoThom Premium users and potential users,

Back and joint pain are widespread. Two thirds of all the people in the world suffer from occasional or permanent pain. In Germany alone, it is estimated that well over 23 million people, most of whom are over 40, suffer from joint and back pain. Much of this pain is unnecessary.

Having pain means that many of those affected live in social isolation and lack mobility. They can no longer live their day to day lives without pain or pursue their work or hobbies without limitations. Many people deal with this by taking medication for the pain. This in turn creates new problems. The long term consumption of painkillers often leads to undesired or harmful side effects. According to a recent study conducted at the University of Bern in Switzerland, these side effects can even include heart attacks or seizures and result in death. Thus treatment methods are sought that do not have these side effects.

It is often not very easy to learn something from nature by way of observation. Scientists, doctors and engineers have succeeded in technically recreating the processes that take place in a healthy and strong body with high-tone frequency therapy in a manner all but rarely achieved. Using refined electronics and a microprocessor, these processes are implemented so as to allow you to treat your own pain.

High-tone frequency therapy has long proven itself to be an effective treatment method, the effects of which are sustainable and have helped millions of people to live free of pain.

WeWoThom Premium is perhaps the most modern and certainly the smallest pain therapy device in the world, which makes use of high-tone frequency therapy and is affordable and available to everyone. WeWoThom Premium utilizes high-tone frequency therapy to treat pain and the sources of pain by means of a miniature pain therapy device for self-treatment. The use of WeWoThom Premium allows you to once again enjoy life more by combatting pain and its causes.

We wish you much success and freedom from pain.

The following information provides insight into the principles of high-tone frequency therapy and the use of the miniature pain therapy device WeWoThom Premium. Should you have any further questions, please do not hesitate to contact us.

Best regards,

A handwritten signature in blue ink, appearing to read "Werner Ullrich".

**Dr. Werner Ullrich
Head of Development and Marketing
WeWoThom GmbH**

A handwritten signature in blue ink, appearing to read "Wolf-Dieter Keutterling".

**Dr. Wolf-Dieter Keutterling
Managing Director
WeWoThom GmbH**



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Appendix:
Further application options



1. High-tone frequency therapy – pain relief without medication

The human body is accustomed to numerous natural frequency patterns for preserving and regulating life. These include heart rhythm, breathing rhythm, the flow of spinal fluid and the electromagnetic rhythm of the brain and nervous system. The control processes in the body are always based on a combination of biochemical and bioelectric processes. Good cell communication, cell coordination, and cell cooperation are an absolute requirement for each organism. This takes place in healthy tissue by itself with the body's active chemicals without involvement of a medical device. Only in cases of disturbances that have led to pathological feelings of pain, is drug-based or technical aid required in order to activate cell communication, cell coordination and cell cooperation.

Just as cells and groups of cells can be incited to certain processes and changes using stimulation by chemistry (food, medication), they can also be stimulated energetically by electromagnetic waves. Therefore under certain circumstances processes can also be initiated in an energetic manner.

High-tone frequency therapy works in a regulating and stimulating way on groups of cells by means of bioelectric and biochemical processes. The metabolism, cell communication and nerve conduction are affected by complex frequency patterns. The frequency patterns used for this therapy do not induce cellular adaptation (habituation effect). Even cells in tissue deep below the skin are affected because the frequencies can penetrate into the body unimpeded. Thus the entire duration of treatment is therapeutically effective. The body can then help heal itself again.

The use of high-tone frequencies to treat pain is not new. It has been described for decades and has been in practical use since 1994. But the implementation of this technology in a small, portable and discrete set, which can be used by the person treating themselves, is new.

High-tone frequency therapy has been successfully applied to joint pain, back pain, bone aches and muscle cramps, menstrual cramps and sports injuries among other things. Due to the experiences of the users themselves and engaging in continual research, further therapy options have recently been discovered.

The name "high-tone frequency therapy" was established years ago as the frequencies applied are found in higher tone ranges. However, they are not transmitted through the air as sound waves and thus are not audible. Instead they are applied directly and effectively to the body by way of corresponding electrodes.

2. WeWoThom Premium

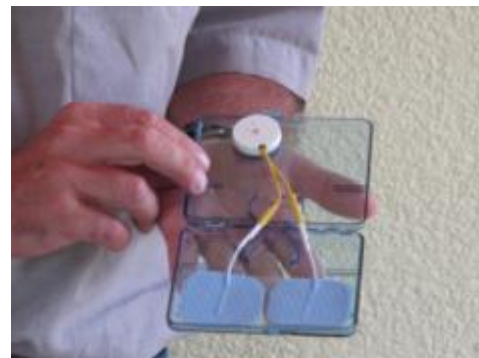
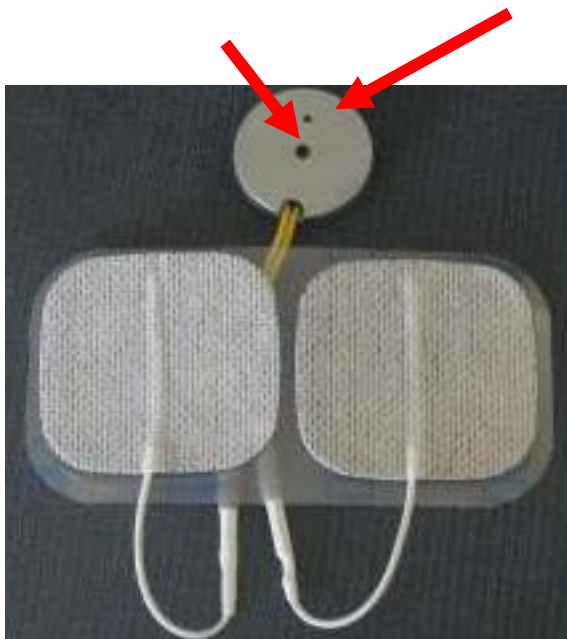
... is the patented development of miniaturized high-tone frequency therapy, which is unique around the world.

As with high-tone frequency therapy using stationary devices (e.g. SoftAgil Doc), the mobile pain relief device WeWoThom Premium uses biological processes to simultaneously help the body in a bioelectrical and biochemical way.

The power supply (coin cell battery) electronic controls (microcomputer), operating element (button) and operation indicator (tiny LED lamp) are housed in the device, which is barely larger than a 2 Euro coin.

Integrated button

Tiny lamp



The small round casing is connected to two adhesive electrodes by the cable. The "on" mode is indicated by a small flashing green light.

The main features of WeWoThom Premium are as follows:

- Minimal weight
- Compact housing
- Top quality, easy-to-use adhesive electrodes
- Operation without mains supply using coin cell battery;
(ready to use for up to 6 years when switched off);



- Up to 500 treatment hours without changing the battery;
The battery may provide fewer treatment hours depending on individual user conditions, physiological conditions, humidity, climatic effects, direct sunlight and other unfavorable environmental conditions and may thus have to be replaced earlier.
- Easy operation;
- Set duration of treatment 6 hours each.

We are constantly developing the method further, thus resulting in new indications and respective electrode applications. We inform our users as soon as tested information becomes available concerning effectiveness for a new indication. On the other hand we are also always interested in hearing about new experiences our users have in order to draw important conclusions for further improvement of our methods and techniques. Our primary aim consists of offering our clients a perspective on life without pain. To this end, we apply the highest standards of quality to our manufacturing technology and our product.

3. How it works

WeWoThom Premium works just like familiar stationary high-tone frequency therapy devices, which are purely frequency-modulated, using electromagnetic frequencies from the 4,000 to 12,000 hertz range of higher tones and can positively affect the cells of our bodies in this way.



Similar to the domino effect, the frequencies reach the sensitive nerves and muscle cells by way of the skin and are passed on from cell to cell and support cell communication by simultaneous biochemical and bioelectric processes. The frequencies used correspond to those generated intrinsically by a healthy human body. The cells are supplied with substances naturally occurring in the body, which eliminates the need for medications.

The body can then help heal itself again.

WeWoThom Premium does not produce unwanted ionization in the cells that might even be damaging. The frequency patterns implemented in the device's software work their way into deep tissue without limitations because of their complexity and avoid frequency adaption of the cells. The unimpeded depth of penetration even results in additional effects on those cells that lie deep under the skin surface in the tissue and joints.

Thus for example the cartilage that is still present in the joint in osteoarthritis is better supplied, more elastic and regains its shock absorber properties at least partially. Pain can be lessened by this and the joint no longer needs to be spared. Inflammation and swelling, which could be the cause of pain, are reduced or remedied. The patient is more mobile



again. Since no frequency adaption takes place, WeWoThom Premium remains effective during the entire period of use. It generates neither vibrations nor directly felt skin irritation.

High frequency therapy works on groups of cells by regulation and stimulation by means of bioelectric and biochemical processes. The metabolism, cell communication and nervous conduction are affected by complex frequency patterns.

4. Is WeWoThom Premium right for you?

Pain can be a symptom of a serious illness. For medical diagnosis, please consult your physician. The WeWoThom Premium method consists of non-drug based treatment of pain and should never be used to replace a visit to the doctor to clarify the cause of the pain.

Its use is recommended for almost everyone. You can use the device whenever you want. It is extremely light. You can carry it day and night comfortably under clothing and thus use it during many activities and events.

Fortunately WeWoThom Premium almost always produces impressive results.

However, it is not a miracle cure. There are illnesses known to medicine and biology that certain procedures cannot help. Fortunately this is only rarely the case with WeWoThom Premium.

For example WeWoThom Premium cannot help when the pain is caused by a split meniscus. In this case an operation procedure is certainly more advisable for sustainable success than therapy using WeWoThom Premium.



WeWoThom Premium is not approved for pregnant women, persons with pacemakers or persons under 12 years of age for forensic reasons.

For medical reasons WeWoThom Premium should not be used in cases of acute sepsis (blood poisoning).

People with osteoarthritis, arthritis, menstrual cramps or simple inflammations resulting in muscle tension can live with greater mobility and above all without pain after a few applications of WeWoThom Premium.

WeWoThom Premium is superbly suited for joint and back pain or against muscle tension and menstrual cramps.



5. WeWoThom for joint and back pain

The cause of joint or back pain is often due to loss of cartilage in the joints. This leads to inflammation that is often perceived as pain. WeWoThom Premium primarily uses the above mentioned bioelectric and biochemical causal mechanisms mainly to make the remaining cartilage more elastic and durable.

This process restores the shock absorber function of the cartilage in the joint, thereby eliminating the cause of inflammation and thus the associated pain. Treatment can therefore be successful after a relatively short period of time with regular or intensive use of WeWoThom Premium, thus greatly reducing or even relieving back pain for a period of time. Regular pain-free movement then helps retain durable and elastic functioning of the shock absorber. Thus the desired pain-free state regulates itself in natural manner.



However, this does not mean that lost cartilage is regenerated. This is not possible according to current scientific knowledge. One cannot predict how long the effects of treatment using WeWoThom Premium persist. This depends on the degree of sickness or stress. Sometimes pain recurs due to too little or too much exertion and self-help using WeWoThom Premium will once again be required. The necessity of repetition of WeWoThom Premium treatment with its ability to ease pain is certainly much more acceptable than the other known alternatives..

Timely treatment using WeWoThom Premium makes sense in cases of joint pain as well as back and muscle problems not only because the

pain itself is eliminated, but because other areas of the body are not overstressed by relieving postures. This helps prevent consequential damage. WeWoThom Premium can also be preferable because negative side effects of taking medication can be avoided.

WeWoThom Premium can bring long term pain relief with regular and repeated use.

6. How do you use WeWoThom Premium?

The WeWoThom Premium can be used by everyone without external help by consulting the instruction manual. The device has enough energy for up to 500 treatment hours. This time can be reduced depending on various conditions and physiological aspects.

The device is very easy to use.

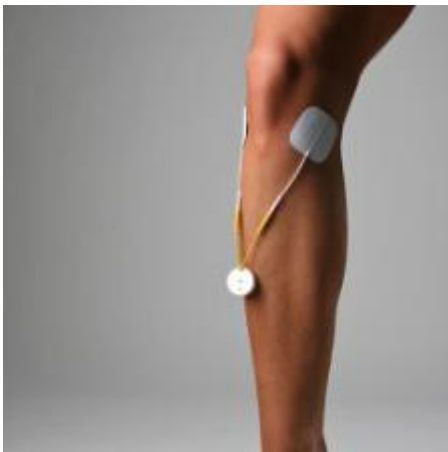
The electrodes are directly attached to the skin close to the area affected by pain. The device can be turned on by simply pressing the button. It then works according to the high-tone frequency therapy principle. After 6 hours, WeWoThom Premium automatically switches off. Pressing the button again reactivates the device, as indicated by the flashing light. Of course the device can also be switched off if treatment has to be interrupted or if effects are felt more quickly.

Areas of application:

- Joint and skeletal pain
- Muscle aches and spasms
- Pain in conjunction with osteoarthritis and arthritis
- Menstrual cramps
- Sports injuries

Several options for applying WeWoThom Premium are shown in the photos below. Further possibilities for application can be found in the appendix of this information.





WeWoThom Premium is easy to apply. Usually quick and successful ease of pain can be felt after only a short time.



7. Frequently asked questions concerning features and use.....

Here are the answers to the most common questions we receive in conjunction with WeWoThom Premium. If you have further questions, please contact us by phone at +49 (0) 33631 43 90 30 or by email at info@wewothom.de.

Who guarantees the required quality of WeWoThom Premium?

WeWoThom GmbH is committed to high quality standards for its product line. Essential quality components for you as a patient include personal safety, device safety and its clinical effectiveness. WeWoThom Premium is subject to constant and strict quality checks in accordance with the highest standards. Certification as a medical device includes all recent improvements to the device.

Can I use WeWoThom Premium without training?

Yes. You must follow the instruction manual exactly. Then your self-treatment will likely be quickly successful.

Is the period of application using WeWoThom Premium limited or can I also use the treatment more frequently than once a day?

The frequency of treatment and duration are not limited with WeWoThom Premium, because only physiological action is taken. You can use WeWoThom Premium whenever you want. However, you should observe the instruction manual closely. In some cases your metabolism may be overstimulated. Then you should take a break for 2 days.

How can it be that many years of treatment was unsuccessful and yet WeWoThom Premium allows you to regain your mobility and feel good after only a few hours?

The processes that occur on a completely natural and physiological basis with WeWoThom Premium take bio-electrical requirements regarding your joint and back ailments into account. The reduction of swelling and inflammation thus occurs very quickly and effectively. However you must consider the fact that repeated application with one treatment per day will be required.

How can I supply the cells in the knee with nutrients using WeWoThom Premium without taking medications and active substances? How does it work?

The complex frequency changes learned from nature affect cell activity and cellular fluid exchange, which is linked to the diffusion of charge carriers and thus active substances that are found in the organism. Metabolism is stimulated by way of these frequencies and nutrients enter the cell. For this reason, we can achieve noticeable vitalization of the corresponding region of the body with just one treatment with WeWoThom Premium. Simultaneous regulation of multiple functions then takes place in the organism.

I do not feel anything during treatment and only know that the device is working because the light is flashing?

Even at very weak intensity that one cannot even feel, the activity potentials become effective in large number and result in a unique snowball effect. The processes for cell



communication and the resulting pain relief and regulation take place without us feeling them. Even if you do not feel anything, the WeWoThom advantage of unimpeded penetration takes effect

Can WeWoThom Premium also help if I have large big knees? Is the depth of penetration sufficient?

Because of the unique level of activity potentials produced by WeWoThom Premium, the depth of penetration is practically unimpeded. Thus WeWoThom Premium also works in the depths of the joints of very voluminous knees. The snowball effect guarantees the necessary depth of penetration even for tissue deeper in voluminous knees.

Can I burn myself with WeWoThom Premium?

It is not possible to burn oneself using the flexible electrodes and electronic construction. It is important to ensure good adhesion of the electrodes.

How do I maintain my adhesive electrodes for the longest time possible?

Only take the adhesive electrodes off the plastic carrier foil when treating yourself. If you do not use WeWoThom Premium and keep it on standby, then the adhesive electrodes should remain attached to the plastic carrier foil. During this time WeWoThom Premium should be kept in the plastic box.

Where can I find new adhesive electrodes?

You can order new electrodes from WeWoThom GmbH, Robert-Koch-Str. 3 in 15526 Bad Saarow, Germany, at www.wewothom.de or from distribution partners in your area. They will be sent to you immediately.

Can I also use other electrodes?

Using other electrodes is not recommendable because the material and shape have been developed exclusively for WeWoThom Premium and have been subject to tests according to government norms. Deviations or electrodes other than the original electrodes for WeWoThom Premium can limit the effectiveness of treatment and pose risks to your safety.

I have a metal implant in my knee or close to it. Can I use WeWoThom Premium anyway?

WeWoThom Premium works using DC-free frequencies and can thus also be used with metal implants.

No dangerous heating is to be expected.

I have an acute feverish infection and would like to use WeWoThom Premium for comprehensive treatment. Is this advisable?

Acute infections can be caused by bacteria. WeWoThom Premium cannot help with that. On the contrary, WeWoThom Premium would provide the bacteria with additional nourishment and distribute them in the organism. This would be harmful. In case of acute suppurative feverish infections, heart pacemakers or late pregnancy, WeWoThom Premium should not be used.



I have the urgent need to use the restroom following treatment using WeWoThom Premium. Is that normal?

WeWoThom Premium affects osmoregulation, the exchange of fluids between the cells, has a regulating effect on bowel movement and promotes water excretion. The need to go to the restroom after treatment using WeWoThom Premium is entirely normal.

Can continue my normal work during treatment?

You carry out almost all work during the treatment. Make sure that the device is not been torn off and that it is not exposed to splash water. For example you should remove WeWoThom Premium before taking a shower or a bath.

Can you also use WeWoThom Premium as treatment after injury, sprains, swelling, hematoma and inflammation?

WeWoThom Premium is absolutely recommended.

Can I regain my sense of well-being and mobility using WeWoThom Premium even if I have serious meniscus damage ?

WeWoThom Premium probably will not be of permanent help since the mechanical hindrance in your knee cannot be eliminated by WeWoThom Premium.

Can I treat my knee that was recently operated on using WeWoThom Premium if I still have pain in my knee?

Nothing should prevent you from doing this. However, previous consultation with your doctor is recommendable.

Both my knees hurt. How should I treat them?

Either you perform 2 treatments a day (one for each knee) or you use a different device for each knee and treat them at the same time.

I take pain killers. Can I still use WeWoThom Premium?

Yes, but you may be able to stop taking the medication after consulting your physician because the pain is treated using WeWoThom Premium. There are no objections to taking painkillers at the same time.

I regularly go to physical therapy. Can this be done alongside my WeWoThom Premium treatment ?

You can do both of these things at the same time without problems. They are compatible and can even be used in mutual support of each other.

8. Advantages of WeWoThom Premium The method at a glance

Improvement of the quality of life

WeWoThom Premium utilizes high-tone frequency therapy to treat pain. The frequencies used correspond to those generated by a healthy human body. WeWoThom Premium is superbly suited for treating joint and back pain as well as muscle



tension and menstrual cramps. WeWoThom Premium is not suitable in a few exceptional cases. WeWoThom Premium is so small and light that it can be carried comfortably both night and day and unnoticed under clothing.

Free of the side effects of medication

The bioelectric and biochemical effects of WeWoThom Premium function without taking medication and thus have none of the undesirable and often harmful side effects of medicine. Therefore WeWoThom Premium can be used almost without limitation in compliance with the instructions.

Unimpeded in the depth of effectiveness

The unimpeded depth of penetration can even affect those cells that lie deep below the surface of the skin in the tissue. Thus the region of pain of overweight patients can also be reached when treating joints so that the frequencies can affect the cells there. Normal electrotherapy as well as TENS have a very limited penetration depth and do not reach far below the surface of the skin.

The treatment time equals the time of effectiveness

The complex frequency patterns used by WeWoThom Premium do not result in cellular adaptation. Cell communication, cell coordination and cell cooperation can be promoted for the entire duration of treatment. The frequency component only works for a few seconds with other electrotherapy methods, even if the treatment duration is longer.

With WeWoThom Premium, the application time is identical to the time of effectiveness.

Easy to use on your own

Medical self-treatment has several advantages. A person does something for him or herself without assistance. They can use and repeat the method at their own discretion. And they can do this in the comfort of their own surroundings without changing their schedule. It can even be effective at night while sleeping. It is available without waiting times.

Cost-saving

Usually the use of WeWoThom Premium incurs lower costs than other treatment methods in the long run. Necessary repetition plays an important role here.

You may be able to prevent subsequent costs by using WeWoThom Premium if it helps you avoid paying for medicines (copayment) and possible effects due to expansion of the illness or due to relieving postures and the side effects of medicine.

Having WeWoThom Premium by your side can save travel time and costs.

For the entire family, for your whole life.

WeWoThom Premium is so universally applicable, that even your family members can use it for self-treatment. The device can easily be returned to fully functional condition by replacing depleted batteries or used adhesive electrodes.



9. How did WeWoThom Premium come about?

The effect of frequencies using high-tone frequency therapy was theoretically described for the first time even before the first World War in 1913. But the advent of the microprocessor was required for practical realization of a device. The first devices for high-tone frequency therapy emerged in the 1990s for physicians, who were able to help their patients using this pain therapy.

The effect of high-tone frequency therapy impressed many users, medical professionals and medical technicians. We were also impressed. The satisfied patients wanted to be able to treat themselves in their own private surroundings at any time without making long trips to the doctor. This desire resulted in our goal to develop a corresponding device with a justifiable price.

Thus we initially introduced SoftAgil for doctor's practices or therapeutic practices, a device connected to computer software, with clear on-screen instructions and lower acquisition costs than all devices previously available.

Then self-treatment was also to be possible on the go and as part of everyday life with full mobility. WeWoThom Premium was developed as an even more miniaturized device. It uses the pain-relieving, anti-inflammatory frequency patterns with all of the above mentioned effects of high-tone frequency therapy.

This development originated in Germany and we are proud to produce it in Germany as well.

WeWoThom Premium is a German product.

10. Which safety standards does WeWoThom Premium adhere to?

As a company active in Germany, we must observe the strict directives and laws set forth by the European Union. All required criteria for approval of risk-free application of the product on people are fulfilled. WeWoThom Premium is a **certified medical device**. It is CE 0494 certified. The approval procedure also requires proof of effectiveness in the form of clinical studies.

11. How can I purchase WeWoThom Premium?

We recommend purchasing WeWoThom Premium from one of our retail partners or directly from us at WeWoThom GmbH.

Use the internet www.wewothom.de or contact us by email: info@wewothom.de, phone at + 49 33631 439030 or send a fax to + 49 33631 58015.



12. The principles of high-tone frequency therapy

The high-tone frequency therapy method is based on initial theoretical considerations by Martin Gildemeister, which were published for the first time in 1913. Siegfried Koeppen made reference to the advantages of therapy using high-tone frequencies in his work "tone frequencies in medicine", which appeared in 1935. In the 1990s, the German medical specialist of neurology and psychiatry, Dr. Hans-Ulrich May, was the first to develop and patent the therapy concept for high-tone frequency therapy. Dr. May's therapy concept forms the foundation for device development in Germany since 1994, which became possible due to progress in the area of microelectronics. The following description is based on Dr. May's insights.

The basic principle of high-tone frequency therapy is based on the fact that electrical changes in living tissue is always coupled with biochemical changes and vice versa. The electrical properties of the substances found in organisms form the foundation of their biochemical properties in metabolism.

Development of a successful therapy procedure should aim to support the natural processes occurring in a cell or group of cells to the greatest extent possible. This is best achieved by applying electrical energy, as is the case in electrotherapy, or by adding chemical substances, as is the case in drug therapy. Both types of therapy are implemented with great success, but also have areas in which they could be significantly improved.

High-tone frequency therapy supports the natural processes in biological tissue by promoting both the bioelectrical (electrotherapy) and the biochemical (drug therapy) processes at the time time.

The two types of therapy comprising high-tone frequency therapy are briefly described below.

Electrotherapy:

Electrotherapy or **electromedicine** is the term used to describe the therapeutic use of electric current in medical and physical therapy applications. The terms stimulation current therapy or galvanic therapy are used synonymously for several procedures. These procedures all apply direct or alternating current to the body or body parts. The respective voltages are either supplied via electrodes connected to the surface of the skin or via electrodes in a water bath. In applications involving implants for functional electrical stimulation, the current emitting electrodes are placed directly in the tissue.

Although electrotherapy is used in many practices and clinics, the success rate is often not very impressive. The use of direct current, which is often feels agreeable to patients, does warm the affected area but also causes undesirable and damaging separation of ionic charge carriers (ionization) and thus the separation and discharge of cell components.

The use of alternating current can be helpful in this regard. However, in order to reach affected cells deep within the human body (e.g. in the joints), very high levels of current have to be applied to the surface of the skin, which in turn poses the risk of burns.

Cells have a mechanism which causes them to respond to external introduced frequencies



by adapting. This means that they only allow themselves to be affected for a short time and thus avoid further cell responses to the applied frequency.

Therefore the frequencies are only effective for about 2 seconds in conventional electrotherapy. It is also impossible to directly affect the cells electrically. Thus the effectiveness of electrotherapy is very limited.

Drug therapy:

Pharmacotherapy options are extensive and well-known. But side effects can be significant in some cases.

The ideal therapy:

The ideal therapy would consist of a combination of electrotherapy and pharmacotherapy, in which the side effects associated with pharmacotherapy are kept to an absolute minimum. Another requirement of such a therapy consists of the possibility of causing bioelectrical and biochemical effects simultaneously in the cell tissue. This provides optimum support for the natural processes (communication, coordination and cooperation) in a cell or cell tissue. This would strengthen healthy cells and replenish unhealthy cells to the extent possible.

How does high-tone frequency therapy work?

High-tone frequency therapy was developed with the above mentioned considerations in mind and is thus very close to the idea of ideal therapy.

- Avoiding ionization currents is advantageous
- Prevention of cell adaptation extends the time of effectiveness to the entire treatment duration
- The depth of penetration of the frequencies is unimpeded
- High-tone frequency therapy is a hundred times better than TENS
- Targeted improvement of cell communication, coordination and cooperation

No irritation and no ionization

The 2 examples below provide an explanation of how the therapy works.

1st example:

Someone who meets the "love of their life" for the first time blushes. This happens involuntarily. The process of blood vessels in the face expanding, which is visible as blushing, is caused by frequencies sent from the body's sympathetic nervous system.

*The cellular processes of blood vessel **expansion** and the visible blushing caused as a result are controlled by frequencies from the sympathetic nervous system.*

2nd example:

*If someone experiences shock or disgust, we say they "turn pale". This refers to nothing other than blood vessel **contraction** controlled by frequencies from the body's sympathetic nervous system. These two examples show that complicated processes caused by frequency control in our bodies are common and natural.*

Devices used for high-tone frequency therapy do the same thing.

The high-tone frequency procedure works with electromagnetic frequencies in the 4,000 to 12,000 Hertz range and can thus have a positive effect on our organism. As opposed to conventional electrotherapy, no direct current is applied. Thus no ionization is caused in the human tissue cells. The harmful warming, separation of ionic charge carriers and breakdown of cell components associated with ionization are foreign to the body by nature. High-tone frequency therapy is not implemented as a stimulation current method and differs considerably from such methods.

High-tone frequency therapy simultaneously stimulates cellular processes bioelectrically and biochemically, as would an entirely healthy body on its own.

Cell communication - cell coordination – cell cooperation

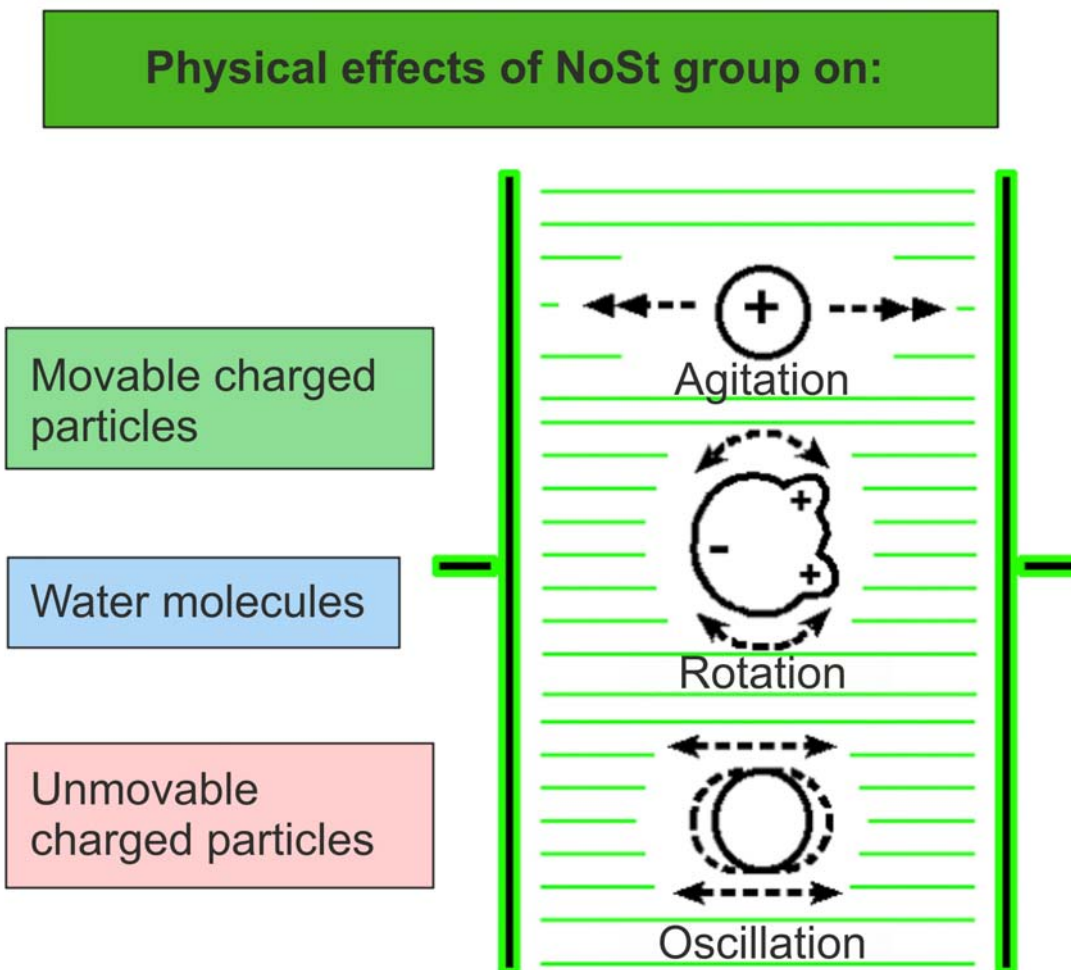
Many processes on our bodies are controlled entirely physiologically via frequencies. Sensitive human body cells act bioelectrically as dipoles. They have a so-called bias or, in other words, a positive pole and a negative pole. This allows for the bioelectrical processes required for life. The positioning of cells can be influenced due to their intrinsic electric cell potentials (almost 100 mV) using alternating electromagnetic fields.

They can be moved using the electromagnetic fields. High-tone frequency therapy makes use of this. The frequencies are delivered to the skin cells via the device's electrodes. Sensitive nerve and muscle cells pass on these frequencies in a highly multiplied form. Each "reached" cell generates and transmits several hundred (value measured in the lab) action potentials (AP). This affects millions of adjacent cells, which do the same and thus pass the frequencies on.



In this way, the process spreads exponentially through the tissue. Molecules and cell components in the human body move in complex forms of oscillation, rotation, vacillation and torsion in the frequency of the vacillation issued by the respective devices. This stimulates cell communication. One could even say the cells are compelled to communicate.

The following figures show the stimulation effects (Stim) and the non-stimulation effects (NoSt).



Stim effects by triggering action potentials (AP)		NoSt effects via changing forces on charges without triggering action potentials (AP)		
Neurophysiological effects The effects of the NoSt group are always used simultaneously.		Physical effects Effects on		
Synchronous Triggering of AP *Imitation principle (effects such as vaso- constriction, muscle relaxing, muscle building) *Fatigue principle (effects such as vaso- dilation, muscle relaxation and pain relief)	Free triggering of AP * tea transient excitatory activity as secondary effect * PHD post hyper- activity depression SCAN *HoSti-SCAN *Dia-SCAN	movable charged particles	Water molecules	unmovable charged particles
		Agitation effect * Diffusion promotion * Increase in kinetic energy Agitation and torsion effect * Increase in encounter probability of enzyme and substrate Active area * extracellular, intracellular and intercellular	Torsion effect * Release of ionic binding forces Active area * Everywhere where Meta- bolism processes occur	Vacillation effects * Promotion of the exchanged of water and freed substances (extreme in the case of resonance) * Conformation changes * Facilitation of electron transport Active area *extracellular matrix, cell membrane and intracellular (electron transport)

* Tables acc. to Dr. May

Biochemical effects
and the resulting therapeutic effects

<p>Extracellular metabolism facilitation</p> <p>via acceleration of supply and disposal</p> <p>via increase in kinetic energy (activation energy reached earlier)</p> <p>via increase in encounter probability</p> <p>Distribution of mediators Pain and inflammation mediators</p> <p>Resorption promotion Iontophoresis</p>	<p>Metabolism facilitation via destabilization of hydration shells</p>	<p>Extracellular matrix Metabolism facilitation</p> <p>Break-down of agglutination</p> <p>Relaxing of tissue structures</p> <p>Impact on calcium and uric acid deposits</p> <p>Cell membrane Hormone imitation of a transmembrane effect</p> <p>Change of the cAMP concentration</p> <p>Inner mitochondrial membrane</p> <p>Change to number and size of mitochondria</p>
<p>Intercellular metabolism facilitation Like extracellular via capacitive coupling</p> <p>Intercellular promotion</p> <p>Communication Ionic motion (chemical messengers) via cell channels</p> <p>Cooperation exchange of nutrients</p> <p>Functional coordination via cell channels via el. info. transmission</p>		

Neurophysiological effects
Blockages (incl. contractures)
due to constant depolarization



Cell vacillation caused by external frequencies improve the metabolism. This is required whenever deficits occur due to wear, injuries or illnesses in human tissue. People with acute or chronic pain, as caused by osteoarthritis or other joint illnesses for example, especially lack this necessary cell communication. Improved cell communication results in cell coordination and cooperation throughout the entire human organism. This simply means that weakened, possibly ill cells can be helped by increasing the supply of nutrients and energy. This enables repair processes. The weakened or injured groups of cells are helped and energetically strengthened in the process. The "disposal" of unusable waste products is accelerated. They are disposed of in a targeted manner via the exchanged of fluids.

Bioelectrical and biochemical

The neural pathways, which are absolutely necessary for vital cell communication, are reconstructed. In particular, the connections between the nerve cells (cell to cell channels) once again become permeable once they have been cleansed of blocking chemical messengers. An increased quantity of the fluid required for supply and disposal enters the cell again. This naturally helps the body more easily deal with painful inflammation by providing it with guidance as to how it can help itself.

The processes described here are all required for the body's own intrinsic way of dealing with the painful loss of cartilage and joint wear (joint and back pain). However the body requires guidance, lost information pathways have to be opened up and physiological processes have to be controlled at the levels of nerves and active substances. High-tone frequency therapy devices provide the human body with outstanding "guidance".

The complex frequency processes generated by the device technology play an important role here. High-tone frequency therapy devices imitate these desirable natural physiological processes in the body.

It is a widely known fact that metabolism takes place when the enzyme correctly matches up with the substrate. The enzyme jumps from substrate to substrate for the purpose of metabolism. As already mentioned, metabolism only takes place if the two components of enzyme and substrate meet up with proper positioning. When cells vacillate, the "right" position required for metabolism is much more often achieved than is the case without this vacillation. The following chart shows how metabolism can be improved, thus dramatically increasing the level of cell nourishment. The achieved multiplication factor can easily be in the thousands. This also solves the riddle as to how we can supply cells with active agents without taking medicine. The nutrients strengthen the cell and increase the amount of energy in the cell. The substance cAMP, the second most important "power house" in the cells after mitochondria, is multiplied very quickly.

Differentiation from TENS

The first application of this effect is seen in the conventional method called TENS (Transcutaneous Electrical Neural Stimulation). TENS was developed for short-term interruption of pain signals to the brain stem.

TENS generates no more than a single action potential per "reached" cell if at all. One can easily imagine that, if only one action potential is transmitted, it only rarely reaches the adjacent cell. It often just "flies" right past the adjacent cell and does not succeed in stimulating it. The result is that unreachable adjacent cells do not pass on the sequence or contribute to cell stimulation. Stimulation thus stops just under the surface of the skin and has no effect on deeper cells.

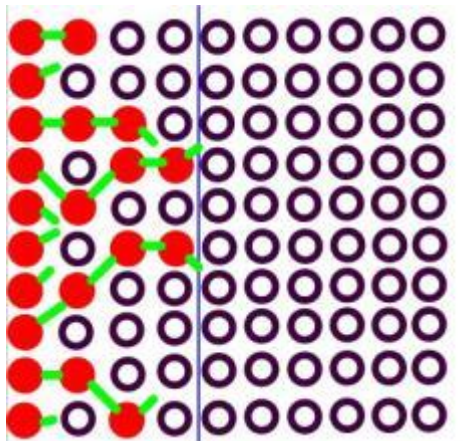


Figure on the left: schematic representation of body cells – circles, "reached" cell, which generates 1 action potential – red circle, action potential – green bar

TENS:

only 1 action potential per cell limits the depth of penetration when using TENS

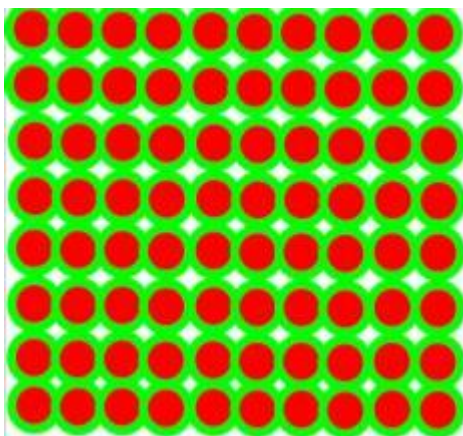


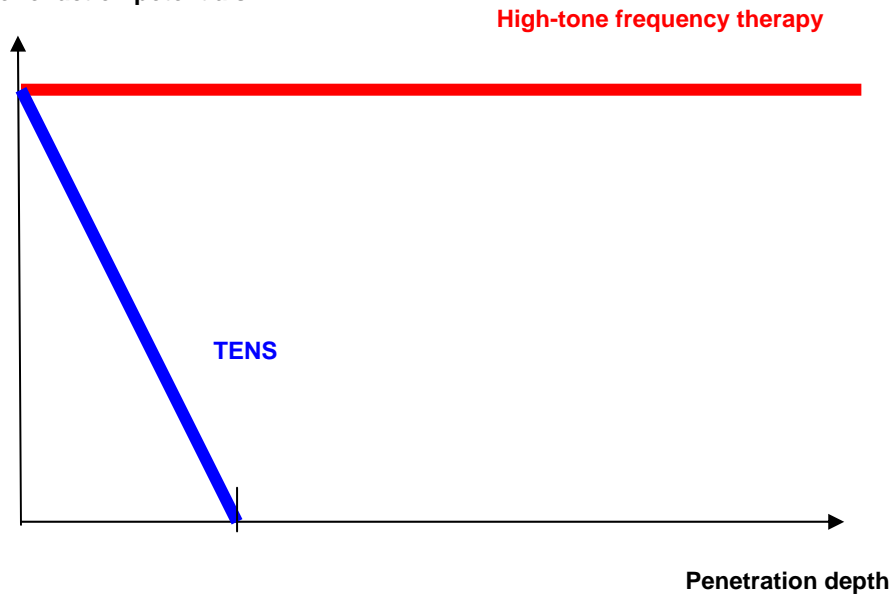
Figure on the left: schematic representation of body cells – circles, "reached" cells, which generate several hundred action potentials – red circles, Hundreds of action potentials – green lining around the red circles

High-tone frequency therapy:

several hundred action potentials per cell result in unimpeded penetration of the tissue

A visual comparison of penetration depths

Number of action potentials



Technical implementation of high-frequency therapy

If used correctly, high-tone frequency therapy has no negative side effects. Bioelectrical and biochemical effects are achieved in the treated area.

The biochemical component of high-tone frequency therapy as compared to pharmacotherapy provides a lot of potential for research. Therefore a moderate combination of both forms of therapy is considered sensible for several types of illness. Other types of illness such as gonarthrosis already represent a domain of high-tone frequency therapy, because drug therapy is of little help here especially in light of all the negative side effects.

The very impressive success achieved thus far with high-tone frequency therapy serve to justify the considerations described above. High-tone frequency therapy has become the therapy of choice especially when it comes to osteoarthritis (e.g. gonarthrosis, coxarthrosis), spinal disk problems, wounds (e.g. leg ulcers) and all types of pain (even migraine or trigeminal pain).

There are several manufacturers on the market. Since the technology was introduced in far more than a thousand doctor's practices, millions of patients with pain could be treated successfully using high-tone frequency therapy.



In the meantime, the technology has undergone substantial further development. Current products include



Device in development
for home use, practices and clinics



WeWoThom MP (Premium)
(mobile device for self-treatment)

Appendix 1

Further application options

Several other application options for WeWoThom Premium are shown in pictures below.

Please note:

pain can be a symptom of a serious illness. For medical diagnosis, please consult your physician. The WeWoThom Premium method consists of non-drug based treatment of pain and its causes and should never be used to replace a visit to the doctor to clarify the cause of the pain.

WeWoThom Premium is not approved for pregnant women, persons with pacemakers or persons under 12 years of age for forensic reasons. For medical reasons WeWoThom Premium should not be used in cases of acute toxemia (blood poisoning) or acute suppurative bacterial inflammation.



Pain or mild inflammation in the face or head region (for example sinusitis, tooth ache, snoring). In case of trigeminal neuralgia, the corresponding nerve exit of the branch concerned should be taken into account



Shoulder pain
(arthritis, calcifying tendinitis of the shoulder)



Neck pain, back pain (e.g. muscle tension, sciatica, herniated disks before and after surgery, stenosis of the spinal canal)



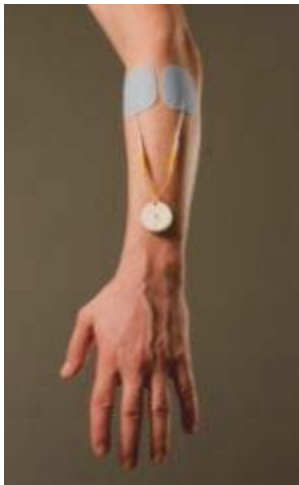
Pain in the hip resulting from over-exertion or incipient osteoarthritis of the hip joint



Stomach aches
Pain in soft parts
Menstrual cramps



Wound healing, scar pain, scar healing



Pain in the elbow or hands or forearms (osteoarthritis, arthritis)

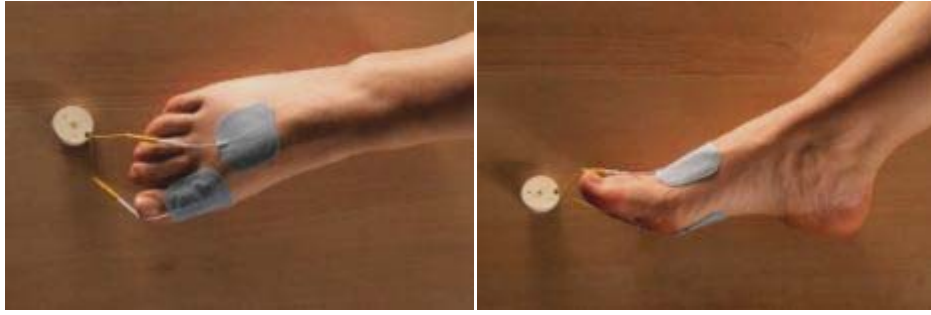


Muscle tension, sports injuries,
Rupture of a muscle fiber



Knee pain (e.g.
osteoarthritis of the knee joint,
(gonarthrosis)





Pain in the area of the feet, ankles, toes (e.g. osteoarthritis, sprains, calcaneal spurs)

If you have questions pertaining to your particular problems or indications that have been described here, please don't hesitate to contact our team.

We are constantly developing our method further, thus resulting in new indications and respective electrode applications. We inform our users as soon as tested information becomes available concerning effectiveness for a new indication. On the other hand we are also always interested in hearing about new experiences our users have in order to draw important conclusions for further improvement of our methods and techniques. Our primary aim consists of offering our clients a perspective on life without pain. To this end, we apply the highest standards of quality to our manufacturing technology and our product.