DEEP OSCILLATION®

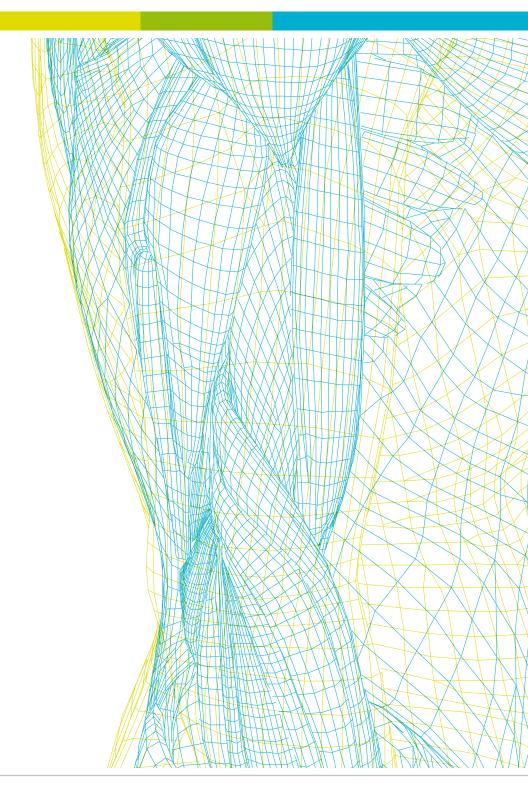
LINE OF PRODUCTS

Evident

HERAPY PROGRAMME

Sports







TECHNOLOGY FOR THERAPY

PHYSIOMED ELEKTROMEDIZIN AG is a leading producer of high-quality equipment for traditional and innovative physical therapy. The PHYSIOMED name stands for outstanding product quality, cutting-edge technological solutions, and an outstanding price-performance ratio.

The German company focuses on offering equipment for treatment in the fields of rehabilitation, sports, aesthetic medicine and veterinary medicine. Its products range from equipment for electrotherapy, ultrasound therapy, vacuum application therapy, laser therapy, microwave therapy and shortwave therapy to cryotherapy and a range of completely new, clinically tested treatments such as DEEP OSCILLATION®, MAGCELL®, PSORIAMED® and vocaSTIM®.

PHYSIOMED ELEKTROMEDIZIN AG presently exports its products to more than 70 countries worldwide. At the same time, the company, which is engaged in international research, maintains numerous cooperative efforts with universities and the continuous exchange of information with renowned scientists and leading physicians. Our products' outstanding performance and suitability for daily use are based on over 35 years of experience and continuous communication with working therapists.

We make every effort to keep our products safe for the patient and the therapist, and to do this we make sure our safety functions go way beyond the official legal requirements.

ISO 13485 ISO 9001



MADE IN GERMANY



PHYSIOMED equipment corresponds to the latest safety standards and regulations of the Medical Device Ordinance, is manufactured in accordance with the current quality assurance standards, is type-examination tested, and bears the CE Marking in accordance with Directive 93/42/EEC.











Therapy with DEEP OSCILLATION®

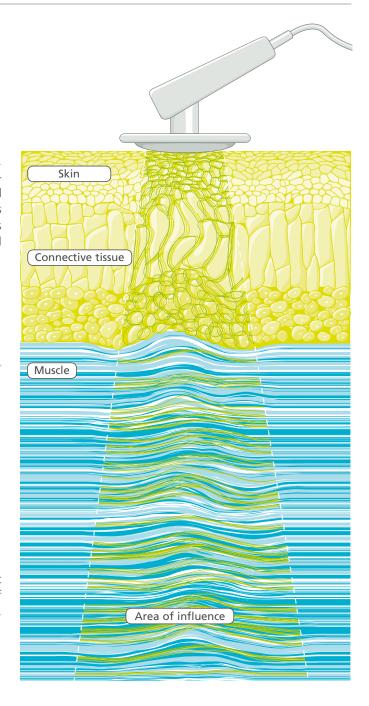
Faster regeneration after training, traumatic injury, damage from overstraining and operations – for muscle aches, strains, inflammation, swelling, wounds.

DEEP OSCILLATION® is a unique, patented treatment method. Its special structure allows you to create biologically effective oscillations in the treated tissue using electrostatic attraction and friction. In contrast to other therapies, these pleasant oscillations have a gentle and deep-acting effect on all tissue components (skin, connective tissue, subcutaneous fat, muscles, blood and lymph vessels).

The following physiological effects of DEEP OSCILLATION® are clinically proven:

- Highly effective in reducing pain
- Anti-inflammatory
- Effective in reabsorbing oedema
- Promotes wound healing
- Anti-fibrotic
- Improves the trophicity
- Rubor reduction
- Detoxification
- Improves the quality of the tissue

For the treatment, the patient holds a titanium neutral element loosely between the fingers. The pleasant therapy effect of DEEP OSCILLATION® is created beneath the hand applicator, which is moved in a circular motion above the tissue.







Fields of application of DEEP OSCILLATION® in sports medicine

Thanks to its non-invasive, non-traumatic and highly effective approach, DEEP OSCILLATION® is especially well suited to treat the following indications:

TRAUMATIC INJURY AND DAMAGE FROM OVERSTRAINING

For traumatic injuries and damage from overstraining, DEEP OSCILLATION® has an antiinflammatory and oedema-reducing effect, directly stimulates self-mobilization in areas relieved of pain and thus enables an earlier return to active forms of therapy and training.

PRE- AND POSTOPERATIVE THERAPY

With DEEP OSCILLATION®, swellings and oedemas can be relieved pre- and postoperatively considerably faster than with conventional therapies. Because it can be used at an extremely early stage, healing processes are stimulated and accelerated, local inflammation is inhibited and pain is reduced over a sustained period.

TRAINING AFTERCARE AND PERFORMANCE STABILIZATION

In training aftercare, DEEP OSCILLATION® is known for its rapid, muscle-relaxing and pain-relieving effects, and for its direct effect against microtrauma (muscle aches). Roughage and cell remains are removed more quickly through the treatment. This promotes a more effective nutritional supply to the muscle cells, thus accelerating the restoration to optimal performance. Regeneration times in the systematic training process can thus be reduced.

DEEP OSCILLATION® EVIDENT SPORTS

DEEP OSCILLATION® EVIDENT SPORTS was designed for professional use in sports medicine centres and clinics.





Rotatable and tiltable control-unit with built-in card reader

It combines an appealing design and a broad range of functions. The rotatable and tiltable control unit with a large colour display and PHYSIOMED's one-button operation enables the fast and efficient selection of parameters. The therapy unit on the special

trolley makes an appealing mobile therapy station. The trolley's functional accessories drawer allows you to store all the necessary accessories, and you can easily access them using just one hand.



VIDEO / ANIMATION

You can decide whether you would like to select the parameters quickly and directly or through one of your stored programmes. You can also select a suggestion from the extensive treatment index. Appealing, indication-related animated cartoons and videos turn the treatment into a multimedia experience for the patient and offer you practical tips for the treatment.





APPLICATORS

DEEP OSCILLATION® is applied with special hand-held applicators. Different sizes ensure localized treatment as well as over a large area. Easily interchangeable treatment membranes guarantee a hygienic application.





THERAPY CARD DEEP OSCILLATION®



Individual programmes as well as suggested treatments from the indication index can be easily stored on the DEEP OSCILLATION® therapy card and used with DEEP OSCILLATION® PERSONAL (see next page).







DEEP OSCILLATION® PERSONAL

DEEP OSCILLATION® PERSONAL was designed for individual, mobile use and continuation of treatment at home.



 $\label{eq:decomposition} \mbox{DEEP OSCILLATION$^{\scriptsize @}$ PERSONAL with standard applicator}$

Individual therapy parameters pre-programmed with DEEP OSCILLATION® EVIDENT can be called up with DEEP OSCILLATION® PERSONAL. This enables individualized, mobile therapy on the ward using DEEP OSCILLATION® PERSONAL. The patient can also continue treatment according to your specifications while treating themselves at home. This way you can guarantee the sustainability of your treatments until the next appointment in your clinic or treatment room.

Battery operation and a handy size guarantee flexible use, both on the road and at home. A generous graphic display, together with the single button operation, guarantee very easy programme selection and a good overview.

THERAPY CARD



DEEP OSCILLATION® PERSONAL is also available individually with the SPORTS therapy card, which provides all relevant pre-programmed standard applications.

Therapy card SPORTS

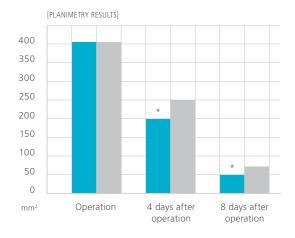
Clinical proof of effects

BIOLOGICAL AND CLINICAL EFFECTS



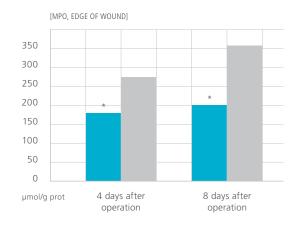
ENCOURAGING WOUNDS TO HEAL

DEEP OSCILLATION® helps in speeding up and improving woundhealing processes. Through the oedema-reducing and anti-inflammatory effect, the local metabolic elimination and alimentation is improved in all tissue layers, whereby tissue regeneration and wound closure are encouraged on many levels. This is documented by the significant improvement in planimetric and biochemical parameters of the wound healing.



ANTI-INFLAMMATORY

DEEP OSCILLATION® suppresses acute and chronic inflammation by restricting pro-inflammatory cell movement to the damaged area, by reducing the inflammatory mediator release, and by inhibiting water and protein leakage from the blood and lymph vessels.



SOURCES

The physiological effectiveness of DEEP OSCILLATION® has been documented in numerous experimental and clinical studies.

 $Aliyev\,R.,\,Mikus\,E.\,W.\,J.,\,Geiger\,G.,\,Reinhold\,J.\,G.\,\,(2008):\,Hoch signifikante\,Therapieer folge\,\,mit\,Tiefen oszillation\,\,(DEEP\,OSCILLATION^{\circ}\,PERSONAL)\,\,in\,\,der\,\,orthopädischen\,Rehabilitation.\,Publication\,\,in\,\,process.$

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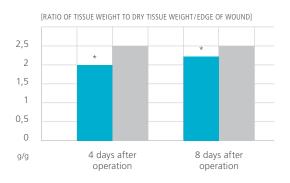
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OEDEMA AND FIBROSIS REDUCTION

On the level of the interstitium, DEEP OSCILLATION® causes a »Shuffling« of the basic substance, thus promoting the removal of interstitial fluid as well as content material. Interstitial septa and fissures are kept open by the mechanical activation, which helps interstitial drainage. This significantly reduces both local oedema and aseptic inflammation. Proof was also established of a significant reduction in swellings in the area of the wound, due to the treatment. In chronic conditions the treatment helps to disperse fibrosis and to diminish hardening of the tissue.



REFERENCES

Excerpt from the list of references

DEEP OSCILLATION® IS BEING USED BY:

Austrian Skiing Association Belorussian National Olympic Team Canada, National Basketball Team Czech National Football Team French Racing Club France, Le Stade Francais Rugby German National Handball Team German National Ice Hockey Team German National Ski Jumping Team Germany, Football Club Nürnberg Lithuanian Olympic Center Russian Cross Country National Team USA, Dallas Mavericks USA, New York Giants USA, New York Yankees USA, Pittsburgh Pirates USA, San Antonio Spurs USA, St. Louis Cardinals USA, Washington Wizards USA, University of Florida Vietnam, Hanoi Sport Committee

Mikhalchik E., Titkova S., Anurov. M., Suprun M., Ivanova A., Trakhtman I., Reinhold, J. (2005b): Wound Healing Effects of DEEP OSCILLATION®. 1st International Conference on Skin and Environment, Moscow – St. Petersburg, 71.

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Wehner H., Wehner W. (2005b): HIVAMAT® 200 – Erfahrungen mit der apparativen Lymphdrainage und Tiefenmassage bei onkologischem Krankengut in einer Spezialklinik für integrative Medizin. Die Naturheilkunde 6, 41–44.

Technical data / Versions

DEEP OSCILLATION® EVIDENT SPORTS packages:

PACKAGE

- [1] Operating instructions
- [2] Applicator handhold
- [1] Mains cable
- [5] Membrane set Ø 5 cm
- [5] Membrane set Ø 9,5 cm
- [2] Oscillator head Ø 5 cm
- [1] Oscillator head Ø 9,5 cm
- [1] Patient lead DEEP OSCILLATION®
- [1] Powder
- [2] Connection cable DEEP OSCILLATION®
- [3] Therapy card DEEP OSCILLATION®
- [1] Titanium neutral element
- [1] Trolley EVIDENT

PACKAGE 2 Identical to Package 1, but including:

[2] DEEP OSCILLATION® PERSONAL including standard accessories (with therapy cards DEEP OSCILLATION®)



The quality and safety of our accessories are also a top priority. For example, the contact surfaces of DEEP OSCILLATION® are made of biocompatible titanium. The high-quality treatment membranes are extremely robust and durable, but for hygienic reasons they are also extremely easy to change.

See page 10 for further information on DEEP OSCILLATON® PERSONAL. You will find a complete overview of our entire range of accessories at www.physiomed.de

Trolley EVIDENT

The special Evident trolley is extremely stable, and the smooth running castors with latches ensure good mobility. The tiltable front panel allows you to put away cables without having to unplug them and store yet easily and quickly access the additional accessories. DEEP OSCILLATION® EVIDENT SPORTS' four magnetic feet fit perfectly in the corresponding grooves of the trolley and guarantee that the unit will stay put.



TECHNICAL DATA Protection class 1, Typ BF Power connection 100 – 240 V Mains frequency 50 – 60 Hz

Current consumption
Power consumption
Output voltage
Load impedance

0,15 A (at 230 V) or 0,3 A (at 115 V) 35 VA 400 V

10 MΩ

Output frequency Dimensions (W x H x D)

Weight

5 – 250 Hz 260 x 350 x 370 mm (monitor unfolded) 8.5 kg ADDRESS

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DEALER MARK / STAMF

