**DEEP OSCILLATION® - Generic Information for Clinician Websites**

**DEEP OSCILLATION® Links**

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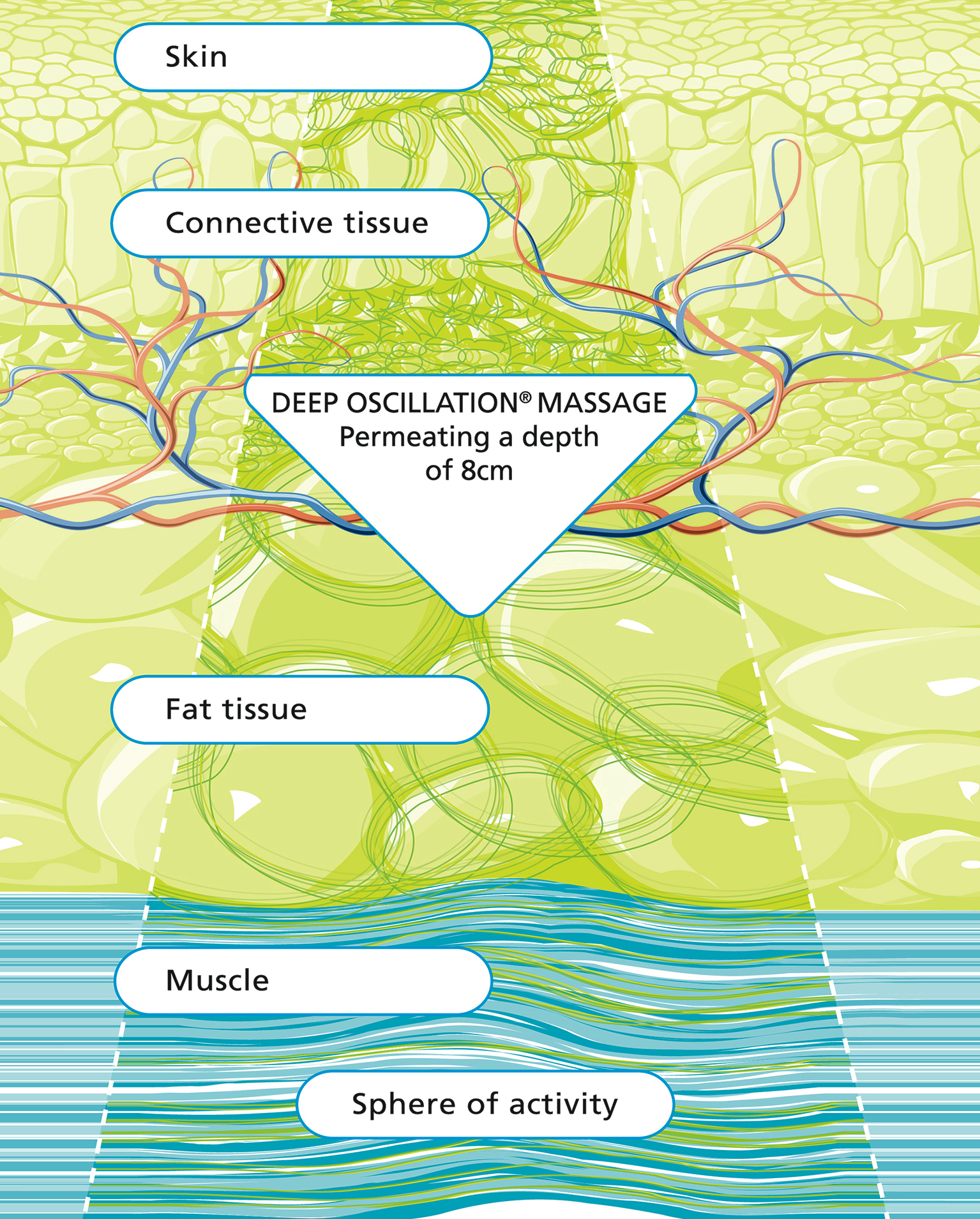
DEEP OSCILLATION® is a patented electromechanical therapeutic procedure using resonant vibration of the tissue with DEEP OSCILLATION® equipment from Physiomed, Germany. A special design makes it possible, using electrostatic attraction and friction, "to produce mechanical vibrations in treated tissues of the body, not only at the skin on the surface but also in deeper tissues" (Brenke and Siems 1996). Schönfelder and Berg (1991) refer to a "penetrating vibration and pumping effect deep into the tissue". The frequency can be varied in the range from 5-250 Hz. The treatment applicator/therapists vinyl gloved hands and the patient are connected to the equipment (voltage source). A vinyl film between the applicator, and/or vinyl gloves and the patient functions as a dielectric. This results in a weakly conducting capacitative layer between the contact surfaces. In action, pulsed electrostatic attractions draw the tissue to the applicator/gloved hand and release it at the rhythm of the chosen frequency. The therapist sets the pressure gradient, speed and direction of the movements. The patient can treat himself if appropriate. The treatment procedure is characterised by minimal external mechanical effects, which allows it to be used in cases of acute pain, fresh injuries and in the treatment of wounds. Numerous pilot studies have demonstrated pain reduction, minimisation of oedema and anti-fibrotic effects. It is commonly used for the treatment of Lymphoedema (Jahr, S., Schoppe, B. and Reißhauer A. (2008) Effect of treatment with low intensity and extremely low frequency electrostatic fields (Deep Oscillation®) on breast tissue and pain in patients with secondary breast lymphoedema. J. Rehabil. Med. 40, 645-650).

The DEEP OSCILLATION® system, above all, has effects on the microcirculation of the interstitial connective tissue. Treatment results in a normalisation of the steady state, i.e. of the permanent fluid flow between the tissue surrounding the cells and the lymph and blood vessels. In this manner, pain can be diminished and the circulus sanus be restarted or else accelerated.

**Ecographic Imaging Evidence:**

1       DEEP OSCILLATION® is shown by ecographic image recording to permeate an 8cm depth. Source: “Value of DEEP OSCILLATION therapy in the healing of AB burns” Authors: MSc. Dra. Solangel Hernández Tápanes1, Lic. Addiel Suárez 2, Dra. Tania Bravo Acosta 3, Lic. Rafael Wilson Rojas 2, MSc. Dra. Beatriz Fernández Prieto 4, Dra. Miriela Cabrera Morales 5 (Cuban Journal of Physical Medicine and Rehabilitation RNPS 2244-FOLIO 148 – ISSN 2078-7162 2010).

2       A Video Report <http://www.physiopod.co.uk/deep-oscillation-effect-in-tissues-recorded-by-ultrasound-imaging.shtml> from Dr. MSc. Luis Felipe Medina C. Lic states that as the electrostatic pulses cause static friction, the elasticity of CONNECTIVE TISSUE reacts to this mechanism, and alternating tensing and/or deep "pumping" is produced. The "Pumping" effect causes the lymphatic drainage”

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**Clinically proven effects**

* Strong pain-alleviating potential. This applies to acute traumatic as well as to chronic pain conditions
* Anti-inflammatory effect
* Prevention and reduction of secondary and primary lymphoedema
* Prevention of fibrotic remodelling processes, reduction of fibrosis
* Muscle relaxation, promotion of physical activity, mobilisation
* Support of wound healing processes
* Normalisation of haemodynamic parameters of the skin, correction of aesthetic-neurotic problems and influence on biological ageing through preventive effects on premature ageing

**Fields of Application:**

Acute Trauma & Chronic Conditions, softening scar tissue

Wound healing, Diabetic Foot, Burns and Ulcers

Musculoskeletal disorders

Primary and Secondary Lymphoedema, Chronic Oedema

Lipoedema and Lipo-Lymphoedema,

Training Aftercare & Performance Stabilisation in Sport, Damage from Overstraining

Pre and Day One Post Operative: Orthopedic, General & Aesthetic Surgery

Neuro Rehabilitation

Pain Syndromes (FMS, Sudeck's Dystrophy etc.)

Common conditions: Arthritis, Back Pain, Tennis & Golfers Elbow, Whiplash

**….Aesthetic & Post Partum including:**

Anti-Ageing of face and neck, eye bags, dark circles

Cellulite, Grade 1 & 2

Post Classic and Vaser Liposuction

Breast Feeding Problems & Caesarian Healing

**Studies/Books/Other Publications/Interviews**

**Studies**

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**Books**

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**Radio Interviews**

[Griffith W. (2010) PT TALKER with Jeff Worrell. Interview William Griffith about DEEP OSCILLATION®](http://pttalker.com/wp-content/uploads/hivamat.mp3)

[Talbot C. (2010)  Holistic Hour "The Lymphatic System and Lymphoedema, how {{do}} has made a remarkable difference to patient care"](http://www.physiopod.co.uk/listen-to-christine-talbot-talk-about-the-lymphatic-system-and-deep-oscillation-on-barefoot-broadcast.shtml)

**EQUINE**

School of Animal, Rural and Environmental Sciences, Nottingham Trent University, Brackenhurst, Southwell, Nottingham, UK, NG25 0QF     Email: lyn.hopegood@ntu.ac.uk Tel: 01636 817014 Lyn Hopegood : Physiological Effects of Massage and DEEP OSCILLATION® on the Horse [See Poster Presentation](http://www.physiopod.co.uk/assets/files/Physiological%20effects%20of%20DEEP%20OSCILLATION%20on%20the%20horse.pdf)