

Translation



Successful anti-cellulite treatment with »Acoustic Wave Therapy (AWT™)«

Acoustic waves have been used in medicine with great success since 1980 for the disintegration of kidney stones (ESWL) and since 1992 for the treatment of orthopaedic conditions such as tendon and muscle disorders (ESWT).

The use of stimulating vibrations as a non-pharmacological procedure to reduce muscular strain and eliminate trigger points is a scientifically acknowledged therapy approach. Vibration therapy increases blood and lymph circulation in the extracellular matrix and stimulates metabolic activity.

Based on these findings and on its experience and expertise in the field of orthopaedic pain therapy, STORZ MEDICAL AG has recently launched a new acoustic wave system and thus extended the spectrum of therapy options for soft tissue treatment by high-frequency pulses.



*Figure 1: D-ACTOR® 200 with applicator for
»Acoustic Wave Therapy (AWT™)«*



Figure 2: Treatment with acoustic waves (AWT™)

After conclusion of a several years long testing period, »Acoustic Wave Therapy« performed with the D-ACTOR® 200 system was introduced at our medical practice in September 2007 and has since been applied with extraordinary success in the treatment of cellulite and other disorders.

The high frequencies of the acoustic wave system ensure optimum regulation of physiological muscle tremor. Receptors of the nervous system are activated. Afferent activities of sensory axons in the extracellular matrix of tissue cells absorb the mechanical pressure exerted by the shock waves and convert it into chemical energy. This leads to an increase in perfusion and to

the formation of new tissue fibres, which, among other benefits, activates the regeneration of the skin structure. If accompanied by regular physical exercise and plenty of liquid, AWT™ is an ideal therapy to strengthen weak connective tissue as in cellulite.

Successful anti-cellulite therapy with the "D-ACTOR® 200"

Acoustic Wave Therapy (»AWT™«) performed with the D-ACTOR® 200 uses high-energy acoustic waves that are introduced into the patient's body in the form of oscillations by means of a radial applicator.



Figure 3: Before treatment / After 6 therapy sessions

At our practice, »Acoustic Wave Therapy« is primarily used for the following applications:

- anti-cellulite therapy (stage I – III)
- muscle and connective tissue tightening
- elimination of lymphatic congestion
- circumference reduction – »slimming«

About 6 to 12 therapy sessions are necessary to ensure effective and long-lasting treatment of cellulite stage I to III. Each session takes about 30 minutes. Significant improvements in the skin structure can already be seen after 3 to 4 sessions. The beneficial effects of this anti-cellulite therapy last for about 6 months, sometimes even longer.

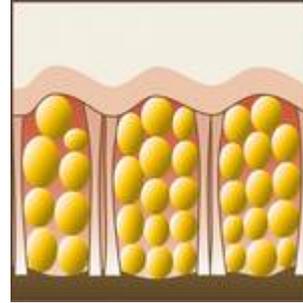
Recommended body regions for anti-cellulite therapy with »AWT™« include:

- upper arms
- stomach
- gluteal region
- thighs

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Figure 4: Effects on the epidermis and subcutaneous tissue

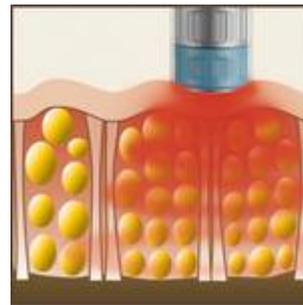
Before »AWT™«:



Enlarged fat cells bulge upwards towards the skin surface, giving the skin the typical orange peel appearance. The inelastic vertical

connective tissue fibres do not stretch along with the surrounding adipose tissue, which leads to the undesirable dimpling. Local blood circulation is significantly reduced.

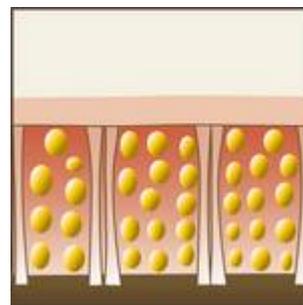
During »AWT™«:



Oscillating acoustic waves are introduced into the body. The connective tissue relaxes, and the firmness of the epidermis increases. Blood

circulation in the tissue is significantly enhanced. Collagen production is stimulated, strengthening the dermis and epidermis.

After »AWT™«:



The results of »AWT™« are improved firmness and restored natural elasticity of the skin and connective tissue along with a

visible and long-lasting improvement in skin texture.

Translation of: "Erfolgreiche Cellulite-Behandlung mit der Akustischen Wellentherapie"
Dr.med. Ulrich Dreisilker

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