

lipedermodus



Next-Generation
Treatment for Lipedema



INCELER



Lipedem Modus

The Next-Generation Solution in Lipedema Treatment

Lipedema is a chronic adipose tissue disorder predominantly seen in women, characterized by symmetrical fat accumulation, tenderness, pain, and easy bruising. This condition, often combined with dysfunctions in the lymphatic and vascular systems, can significantly reduce quality of life.

Lipedem Modus is a non-invasive, state-of-the-art treatment device developed specifically for the management of lipedema. By delivering focused shock waves directly to the adipose tissue from the skin surface, it enhances lymphatic flow, supports microcirculation, and helps reduce edema. It also aids in tissue relaxation and alleviation of pain.

Treatments performed with the Lipedem Modus device promote the softening of fibrotic tissues, thereby improving mobility and contributing to a more elastic and healthier skin appearance. It stimulates collagen production and cellular regeneration, leading to a visible improvement in skin quality.

As a non-surgical option, Lipedem Modus enhances the physical comfort and aesthetic appearance of lipedema patients, thereby improving their overall quality of life.

LIPOEDEM MODUS SHOCK WAVE THERAPY DEVICE

Lipedem Modus Shockwave Device is a non-invasive treatment system that delivers externally generated focused shock waves to the affected tissue beneath the skin via specialized applicators. This method enhances circulation in lipedema-affected areas, supports lymphatic drainage, and activates the body's natural healing mechanisms.

Wide Frequency and Power Range

The Focused Shockwave Therapy mode, specifically developed for lipedema treatment, is adjustable from 1-4 Hz across 25 levels. The power level can be customized according to the patient's symptoms and tissue sensitivity.

Advanced Touchscreen Interface

The colorful and user-friendly display allows for easy adjustment of treatment parameters. It also provides real-time monitoring during the procedure.

Patient Tracking System

The built-in patient registration and tracking menu helps manage treatment processes more effectively.

Predefined Treatment Protocols

The system offers both visual and written guides, enhancing ease of use for the operator.

Automatic and Manual Control

The device stops automatically when the set number of pulses is reached, but also allows for manual intervention if desired.

Lipedem Modus is an innovative device designed specifically for individuals with lipedema. By offering a safe and effective treatment experience, it increases both patient satisfaction and clinical efficacy. It provides functionality for healthcare professionals and visible healing benefits for patients.





LIPEDEM MODUS HANDPIECE FEATURES

More efficient treatments with high-level energy transfer and ergonomic design.

Advantages for the User

- > Provides full energy transmission to anatomical regions.
- > Ergonomic design prevents hand fatigue, offering comfort during prolonged use.
- > Lightweight and balanced design enables easy maneuverability.
- > Durable structure ensures long lifespan and requires no maintenance.

F-50 Head

Penetration Depths

- 68,50 mm
- 28,50 mm
- 12,00 mm
- 84,50 mm



Lipedem Modus offers highly effective treatment with penetration up to 84,50 mm. The powerful energy reaching deep tissues helps you achieve fast and effective results.



Higher Energy Output

Provides optimal results by delivering concentrated energy to the treatment area



Deep Penetration

Speeds up the healing process by delivering effective energy to deep tissues.



Fast and Effective Treatments

Shortens treatment time, saving both time and effort.

What is Lipedema?

Lipedema is a chronic condition, mostly seen in women, characterized by abnormal fat accumulation in the lower and upper extremities (particularly the legs and hips). This disorder, caused by irregularities in the fat tissue, leads to swelling, tenderness, and pain.

A distinct feature of lipedema is the presence of symmetrical swelling, often accompanied by pain and bruising in the subcutaneous fat tissue. If left untreated, it may result in limited mobility and psychological discomfort.

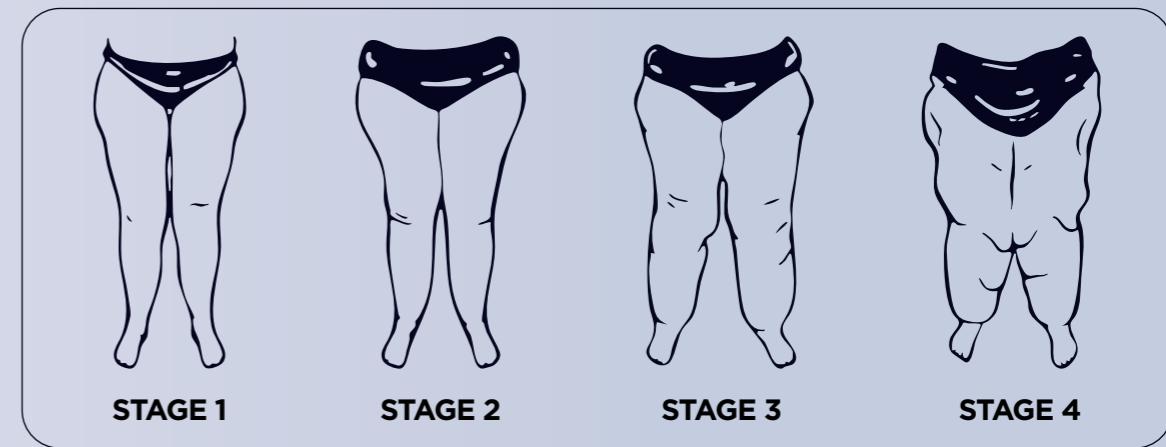


Common Symptoms of Lipedema Include:

- Lipedema is not only a cosmetic concern but also a serious health issue that can significantly impact quality of life if left untreated.
- Symmetrical swelling in the lower and upper extremities (especially in the legs and hips).
- Pain and tenderness in the subcutaneous fat tissue.
- Easy bruising even with mild trauma.
- Swelling that is resistant to diet and exercise.
- In advanced stages, hardening of the skin and formation of fibrotic tissue.
- Limited mobility and a persistent feeling of fatigue.

What Are the Stages of Lipedema?

Lipedema is a progressive disease and typically develops in four stages. In the initial stage, the skin appears smooth, but as the condition advances, fat tissue increases, and symptoms such as swelling, pain, restricted mobility, and skin irregularities become more pronounced.



STAGE 1

The skin surface is smooth, but there is thickening of the fat tissue under the skin and an increase in soft tissue. Swelling is mild and widespread.

STAGE 2

Irregularities and dimpling appear on the skin. The fat tissue becomes denser, and the swelling becomes more noticeable.

STAGE 3

The fat tissue hardens and larger nodules form. Visible dimples and surface irregularities are observed on the skin.

STAGE 4

Lymphedema develops. There is severe thickening, hardening, and extensive swelling in the skin. Mobility is further restricted, and pain becomes more intense. (The advanced stage of the disease is also referred to as lipo-lymphedema.)

Lipedem Modus Treatment

Lipedem Modus therapy offers an effective, innovative, and non-surgical modern approach to addressing the root cause of lipedema—fat accumulation. Focused shock waves penetrate beneath the skin, enhancing lymphatic flow and microcirculation, reducing edema, and alleviating pain. As a result, patients experience a significant improvement in their quality of life.

Scientific studies have shown that focused shock waves break down fat tissue in lipedema-affected areas, enhancing circulation and supporting cellular regeneration. Additionally, by reducing inflammation in the treated area, it significantly improves skin elasticity.

Side Effects of Lipedem Modus Treatment

Lipedem Modus therapy is generally considered safe and does not produce serious side effects. However, in some cases, the following mild reactions may occur:

- > Temporary mild redness or tenderness at the treatment site
- > Mild and short-term bruising (superficial hematoma)
- > Temporary tingling or slight discomfort in the treated area

These effects typically resolve on their own within a short period. It is recommended that the treatment be performed by qualified healthcare professionals.

Benefits of Lipedem Modus Treatment

- Improves microcirculation, enhancing nourishment of subcutaneous tissues
- Softens hardened septa in fat tissue, leading to visible skin improvement
- Promotes rapid post-treatment recovery without interrupting daily activities
- Reduces inflammation, thereby relieving pain and tenderness
- Supports lymphatic drainage, decreasing swelling and edema
- Increases skin elasticity, contributing to localized tightening
- Being non-invasive, it eliminates the need for surgical intervention

Scientific Evidence Supporting the Use of ESWT in Lipedema

Bruno et al. (2024a): In a prospective study involving 50 female patients who received ESWT three times per week for 3 weeks following liposuction for lipedema:

- > 45% reduction in fibrotic stiffness measured by ultrasound
- > Improvement in skin elasticity (1.5 mm vs. 1.0 mm)
- > Decrease in pain scores (2.3 vs. 4.7)
- > Increase in patient satisfaction (92% vs. 68%)

Mittermayr et al. (2012): Demonstrated that ESWT supports tissue regeneration and fibroblast reorganization after surgery.

Siems et al. (2005): Reported that ESWT reduces oxidative stress in lipedema patients and improves skin structure.

Kamamoto et al. (2024) and Herbst et al. (2021): Identified lipedema as a fibrotic and inflammatory fat disorder with poor response to conventional treatments. This makes ESWT an ideal treatment option.

Doğancı (2023): Prof. Dr. Suat Doğancı reported the following findings from clinical application of the Lipedem Modus Electrohydraulic system:

- > 6000 pulses per session (alternating front/back areas)
- > Energy intensity of 0.23 mJ/mm² in the upper leg and 0.18 mJ/mm² in the lower leg
- > Frequency over 4 Hz
- > Each session was accompanied by 30 minutes of compression, 30–60 minutes of daily walking, and a special lipedema diet
- > A total of 40 sessions resulted in noticeable reductions in limb circumference, improved skin tone, and reduced pain scores

Lipedem Modus - DERMO



BEFORE

Lipedem Modus - DERMO



AFTER

Lipedem Modus - DERMO



BEFORE

AFTER

Lipedem Modus Powerful and Deep-Acting Shockwave Technology

Lipedem Modus is an innovative shockwave therapy system based on the electrohydraulic principle. An electrical discharge generated by high voltage creates a powerful acoustic shockwave in a fluid medium. These waves are directed to a focal point through specially designed reflectors, enabling maximum energy transfer to the target tissue.

This technology offers a faster and more effective treatment option by providing a wider focal zone compared to competing piezoelectric and electromagnetic systems.



Focused Shock Waves that Trigger Cellular Regeneration

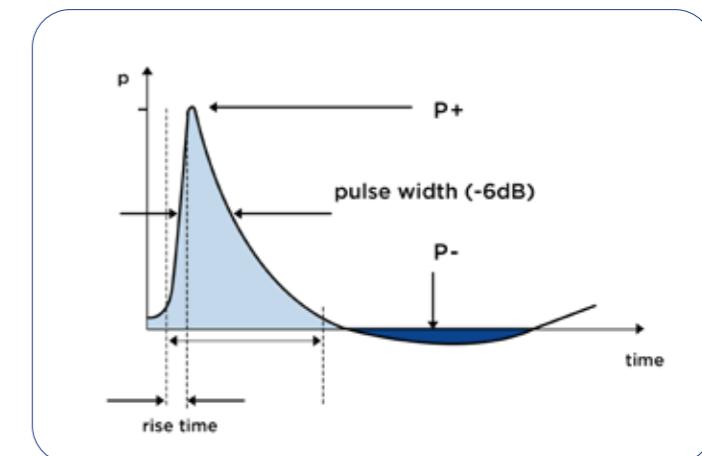
Focused electrohydraulic shock waves deliver intense mechanical force and high energy transfer to the target tissue. This **biomechanical stimulation** triggers **cellular renewal**, accelerates **blood circulation**, and activates the **regenerative process**. Thanks to deep and precise focusing technology, it ensures **rapid healing** and long-lasting therapeutic effects.



Pressure Characteristics of Focused Shock Waves

Shock Wave Pressure Profile: The graph shows the pressure variation of a shock wave over time. The $P+$ (positive pressure) rises sharply to its peak, then transitions over time to negative pressure ($P-$) as it decreases.

Pulse Width and Rise Time: The “pulse width (~6 dB)” represents the effective duration of the shock wave, while the “rise time” indicates how quickly the wave reaches peak pressure. A short rise time means the shock wave acts rapidly and with high impact.



LIPEDEMA TREATMENT IN 4 STEPS



1. Examination

Before treatment, carefully examine the area with swelling, pain, or lesions to identify the appropriate regions for therapy.



2. Mark the Area

Mark the area where shock waves will be applied to ensure accurate targeting during the treatment session.



3. Apply Gel

Apply medical gel to the treatment area to ensure effective transmission of shock waves into the skin and underlying tissues.

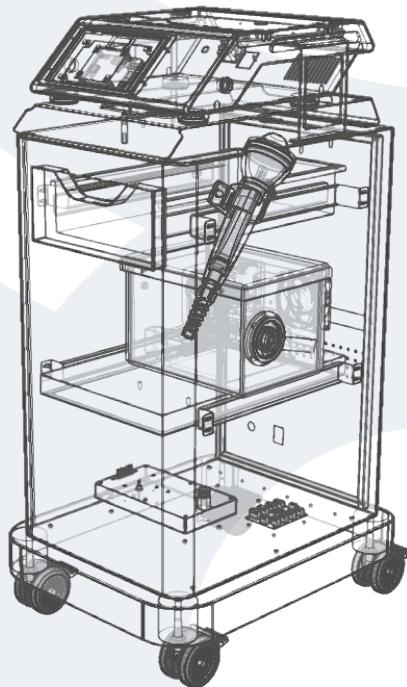


4. Apply Shock Waves

Place the device applicator firmly on the treatment area and deliver shock waves to the tissue. In lipedema treatment, target fatty tissues to stimulate circulation and promote localized tissue regeneration.



Dermatology



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