

cellution.

BY DELEO

The Ultimate Technology for
Cellulite Treatment.



DELEO - AESTHETIC MEDICINE

- CELLULITE
- SKIN TIGHTENING
- LYMPHATIC DRAINAGE
- ENHANCE THE SILHOUETTE

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Rethinking CELLULITE Treatment

Cellution® is a revolutionary advance in the world of aesthetic medicine: a unique technological synergy, that is the result of Deleo's 15 years of expertise in body contouring and research and development.

The encounter between clinical knowledge and treatment experience of our clients in the medical field led to the creation of Cellution®. This innovative device offers a complete and cutting-edge solution for treating cellulite.



9 women out of 10

affected by cellulite
in post-puberty.*

+8% CAGR

of the cellulite treatment market
over the next five years*

3 types of cellulite

Edematous cellulite, adipose cellulite
and fibrous cellulite



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* Gabriel et al. Cellulite : Current understanding and treatment - Aesthetic Surgery Journal - open Forum 2023

* Cellulite Treatment Market Size and Share Analysis - Growth Trends & Forecast (2023-2028) - Mordor Intelligence

Understanding cellulite

DEFINITION

Cellulite, also known as superficial lipodystrophy, results from an **increase in the number or volume of adipocytes, which sit in the superficial part of the hypodermis**. This phenomenon is accompanied by water retention, due to a deficient venolymphatic circulation and a hormonal imbalance between estrogens and progesterone, influencing capillary permeability. Over time, aperiadipocyte fibrosis can form gradually, giving a hardened consistency to cellulite that becomes more difficult to remove.

The main elements contributing to cellulite include water retention, adipose accumulation and fibrosis formation, each of which can vary in intensity. These phenomena lead to three different types of cellulite: **edematous cellulite**, characterized by a predominance of water retention ; **adipose cellulite**, associated with excessive fat accumulation; and **fibrous cellulite**, characterized by pronounced fibrosis.

The development of cellulite is multifactorial, involving genetic, hormonal and structural factors. **Genetics** play a key role, influencing the individual predisposition to develop cellulite. **Hormonal imbalances**, such as adiponectin deficiency or an excess of estrogen, also contribute to this phenomenon.

Furthermore, **alterations in the extracellular matrix of the dermis and the architecture of the connective tissue** contribute to the formation of cellulite. In addition, disturbances of vascular microcirculation are involved in the process, accentuating water retention problems and leading to the progression of cellulite.

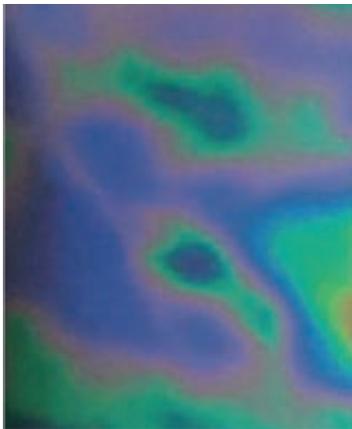
IDENTIFY THE TYPE OF CELLULITE

Deleo marks a significant advance in the diagnosis of cellulite by introducing thermographic plates, a technology that revolutionizes our approach. These advanced devices represent much more than a simple surface analysis; by generating **precise thermal maps of the microcirculations**, they allow the in-depth exploration and diagnosis of cellulite.

This innovation provides us with a detailed insight of specific thermal changes associated with cellulite, allowing an in-depth understanding of its physiological aspects. This detailed vision allows us to **identify the type of cellulite** and to **personalize the approach to treatment**, adjusting interventions more precisely and effectively based on the individual needs of each patient.



Edematous cellulite



Fade sleeve image, microcirculatory peaks.

Fat cellulite

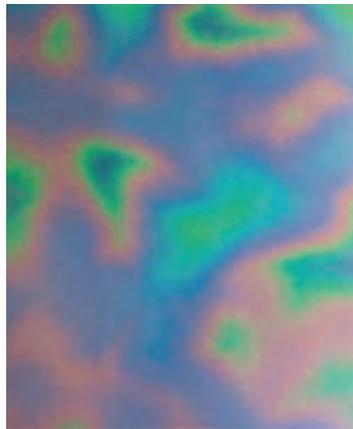
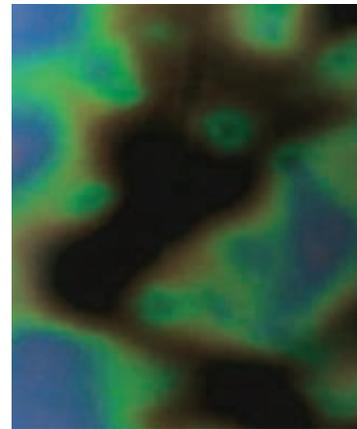


Image in "leopard skin" with several spots of different colours and presence of micronodules.

Fibrous cellulite



"Black hole" image with brown areas and presence of macronodules.

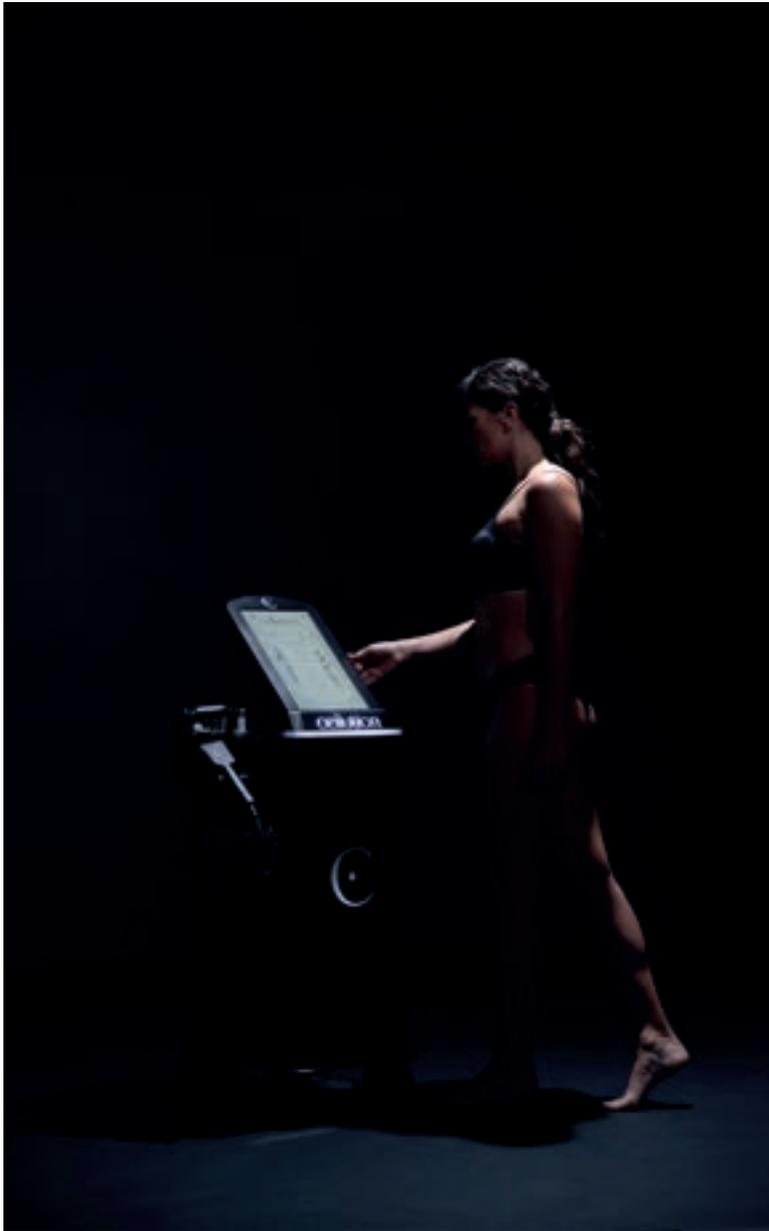
Source :Etudes menées avec le laboratoire IPS-Aesthetics

THERAPEUTIC INNOVATION

Multiple approaches have been explored to improve and decrease the appearance of cellulite. Aesthetic and cosmetic treatments in medical clinics, a range of solutions has been offered for years, with more or less efficiency. Surgical and medical treatments (lipolysis by injection, by laser or even by mesotherapy), non-invasive alternatives (lipolysis by infrared, radiofrequency or focused ultrasound, vibration waves and draining massages) demonstrate a **growing demand for these treatments.**

Advances in the treatment of cellulite highlight the importance of a **combined approach**, which **offers an optimal result, through the synergy of several technologies.** Deleo marks a significant step forward by offering a cutting-edge solution, born from the fusion of 4 technologies. This innovative approach takes into account the diversity of cellulite types, each of which can affect different areas of the body, including the **buttocks, the thighs, stomach and sometimes upper arms.**

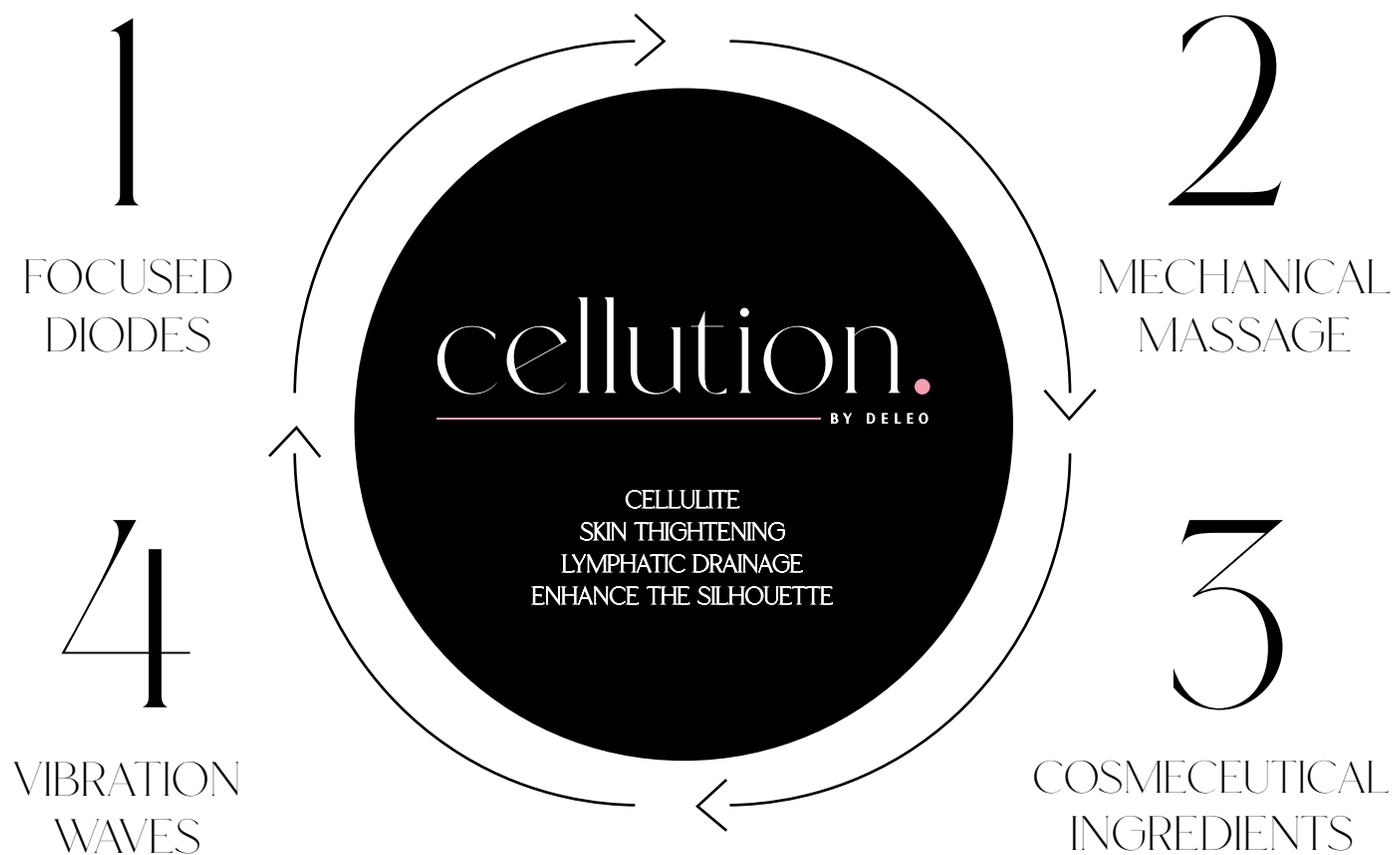




The fusion of 4 technologies

#anticellulite

Cellution® is a treatment plan offering a non-invasive and painless approach. This innovation ingeniously combines **four cutting-edge technologies**: high-intensity focused diodes (HIFD™ technology), a mechanical massage, active cosmeceutical ingredients, and specifically calibrated radial vibration waves.





1. FOCUSED DIODES

The HIFD™ radiation emitted of 940 nm allows the heating of the skin up to 42°C. This controlled heat acts deep in the hypodermis, leading to lipolysis and the dissociation of oxygen from oxyhemoglobin. This phenomenon promotes cellular metabolism and particularly targets **adipose cellulite**. On the other hand, the heat acts at the dermis level, allowing the **stimulation of the neocollagenesis and re-tensioning of the skin**.

• PRINCIPLE OF ACTION

The distribution of the produced heat by diodes of the HIFD™ technology is a key element of the treatment. It is absorbed by the cutaneous fabric, and specifically affects the dermis and hypodermis. **This increase in temperature at the tissue level** simultaneously generates two fundamental reactions illustrated below.

• CLINICAL EFFECTS

Initially, it promotes the **release of triglycerides** contained in adipocytes, causing a **reduction in their volume**. It also improves the metabolism of adipocytes by facilitating the dissociation of oxygen from oxyhemoglobin, which promotes its diffusion into the adipose cells.

On the other hand, heat exerts a positive stimulation on the dermal fibroblasts. This stimulus leads to a **neocollagenesis** and to an **increased production of elastin**, two essential elements for maintaining **firm skin**.

These combined actions contribute to the restructuring of the adipose tissue and thickening of the dermis, which visibly **improves the appearance of cellulite and strengthens the skin's firmness**.



2. MECHANICAL MASSAGE

The massage, thanks to its negative pressure ranging from 0 to 350mbar, constitutes the mechanical step that **allows the improvement of the blood supply to the adipose tissue**, to **destroy the fibrous partitions** hardened by the glycation phenomenon and to evacuate the products breakdown of fats. This stage of the Cellution® treatment especially helps to improve **fibrous cellulite**.

• PRINCIPLE OF ACTION

The mechanical massage suction produces a deep massage which generates specific **mechanical stress** on the fatty tissue. It exerts traction on the **peri-adipocyte septa**, a fibrous structure which surrounds the adipocytes.

Therefore, this traction allows to **evacuate the products breakdown of fats** and **improve blood and lymphatic circulation**

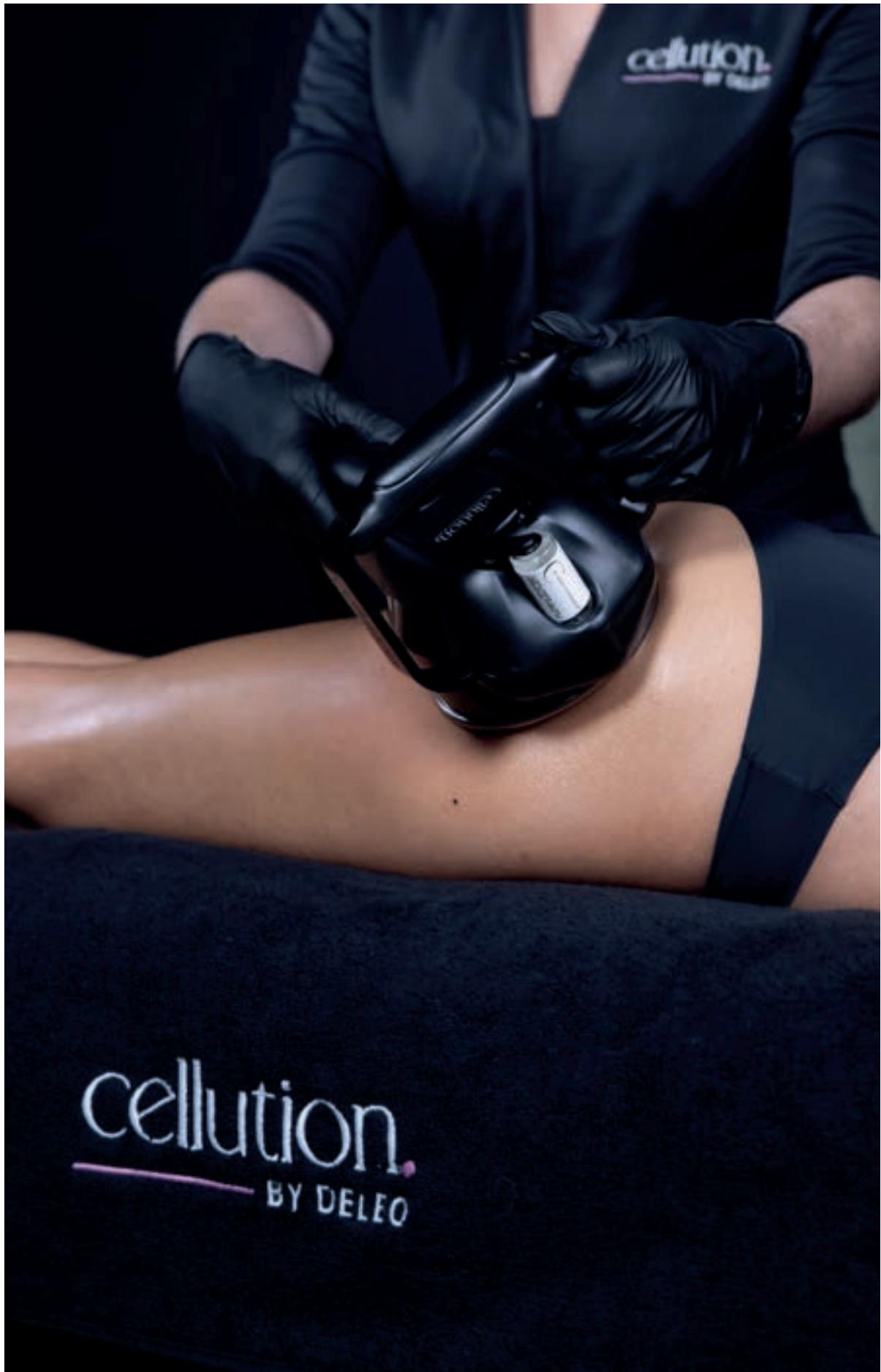
• CLINICAL EFFECTS

The traction induced by the suction of the mechanical massage promotes the **dissociation of collagen fibers**, reducing the cohesion between the fat cells. This dissociation contributes to the reduction of pressure exerted by these lobules on the skin surface.

Consequently, the reduction of fibrosis, along with the reduction of water retention, are elements associated with **improvement of orange peel aspect**.

Just as importantly, the mechanical massage intensifies **lymphatic drainage**, which is crucial for the elimination of **cellular waste and toxins**. By optimizing lymphatic flow, the suction contributes to the reduction of the accumulation of liquid in the tissues, thus improving blood and lymphatic circulation, which are determining factors in the reduction of cellulite.





3 COSMECEUTICAL INGREDIENTS

An oil rich in "Smooth Enhancer™" active ingredients penetrates deeply into the epidermis thanks to the **vasodilator effect created by the HIFD™ technology**. Thanks to the opening of the pores and the increase in exchanges created by thermal action, the **active ingredients with anti-cellulite, regenerating and moisturizing properties** target the cells of the dermis and hypodermis.

• PRINCIPLE OF ACTION

The vasodilator effect induced by the HIFD™ technology plays a central role in this process. Vasodilation increases the local blood circulation to allow the **Smooth Enhancer™** oil to penetrate deeper into the epidermis and to act in perfect synergy with focused diodes.

• CLINICAL EFFECTS

The active ingredients present in this dermocosmetic oil, such as **samphire and red algae**, are renowned for their beneficial properties in terms of hydration and skin regeneration, particularly in the context of cellulite.

The thermal action of HIFD™ technology enables the opening of the pores and improves skin interactions, therefore creating a favourable environment to the **absorption and activation of these active ingredients**.

Thanks to this synergistic approach, these active components efficiently penetrate the deep layers of the skin, acting directly on **the cells of the dermis and hypodermis**. This deep action helps to stimulate the natural processes of **skin regeneration**, promoting the **formation of new tissues and cells revitalization**.



4 VIBRATION WAVES

Vibration waves, by their ability to penetrate deep into the dermis and hypodermis, are the last key steps of the Cellution® treatment. They enable the restructuring of the **topography of tissues**, the stimulation of **neocollagenesis** and the improvement of **microcirculation** and **lymphatic drainage**. This stimulation is effective in targeting edematous cellulite.

• PRINCIPLE OF ACTION

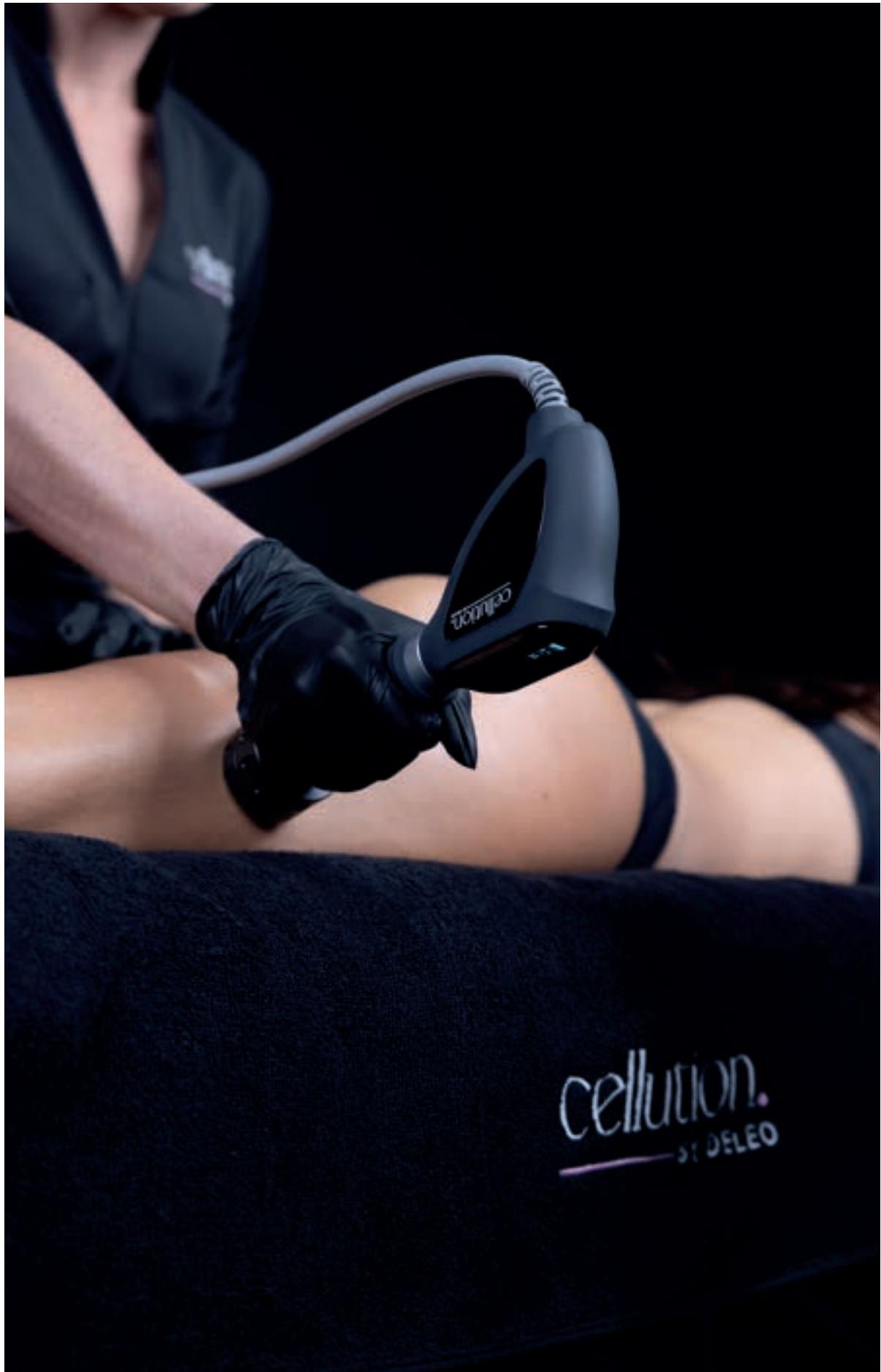
Specially calibrated radial vibrational waves, with a frequency of 0 and 22 Hz, represent the last and essential component of our approach. They generate a mechanical stress at the skin tissues level, a phenomenon known as “**mechanotransduction**”. This mechanical stress is converted into cellular signals triggering biochemical responses within skin cells.

• CLINICAL EFFECTS

One of the most significant effects of these vibrational waves is the stimulation of the production of growth factors, a set of bioactive molecules involved in the regeneration and tissue repair. This results in **neocollagenesis** and **neoenlastogenesis**, two key processes in the renewal of collagen and elastin, **essential proteins for skin elasticity and firmness**.

In addition, these vibrations have a positive impact on the blood flow. They enable the elimination of fluids accumulated in the interstitial spaces between fat lobules and intralobular septa. This action is beneficial for eliminating metabolic waste and toxins. This helps to **reduce the appearance of cellulite and improve skin texture**.





RESULTS



Before (left) and after (right) contraction photos of a 25-year-old woman treated on the buttocks
2 sessions of 20 min per week for 3 weeks.

@marcbenatar



Before (left) and after (right) photos of a 66-year-old woman treated at the thighs level.
2 sessions of 20 min per week for 5 weeks.

@docteur_charlot





Before (left) and after (right) photos of a 29-year-old woman treated on the buttocks.
2 sessions of 25 min per week for 4 weeks.

@marcbenatar



Before (left) and after (right) photos of a 45-year-old woman undergoing abdomen treatment.
2 sessions of 25 min per week for 4 weeks.

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