

icoone®
TALKS

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INDUSTRIES
The science of skin

ICOONE LASER: THREE TECHNOLOGIES IN ONE

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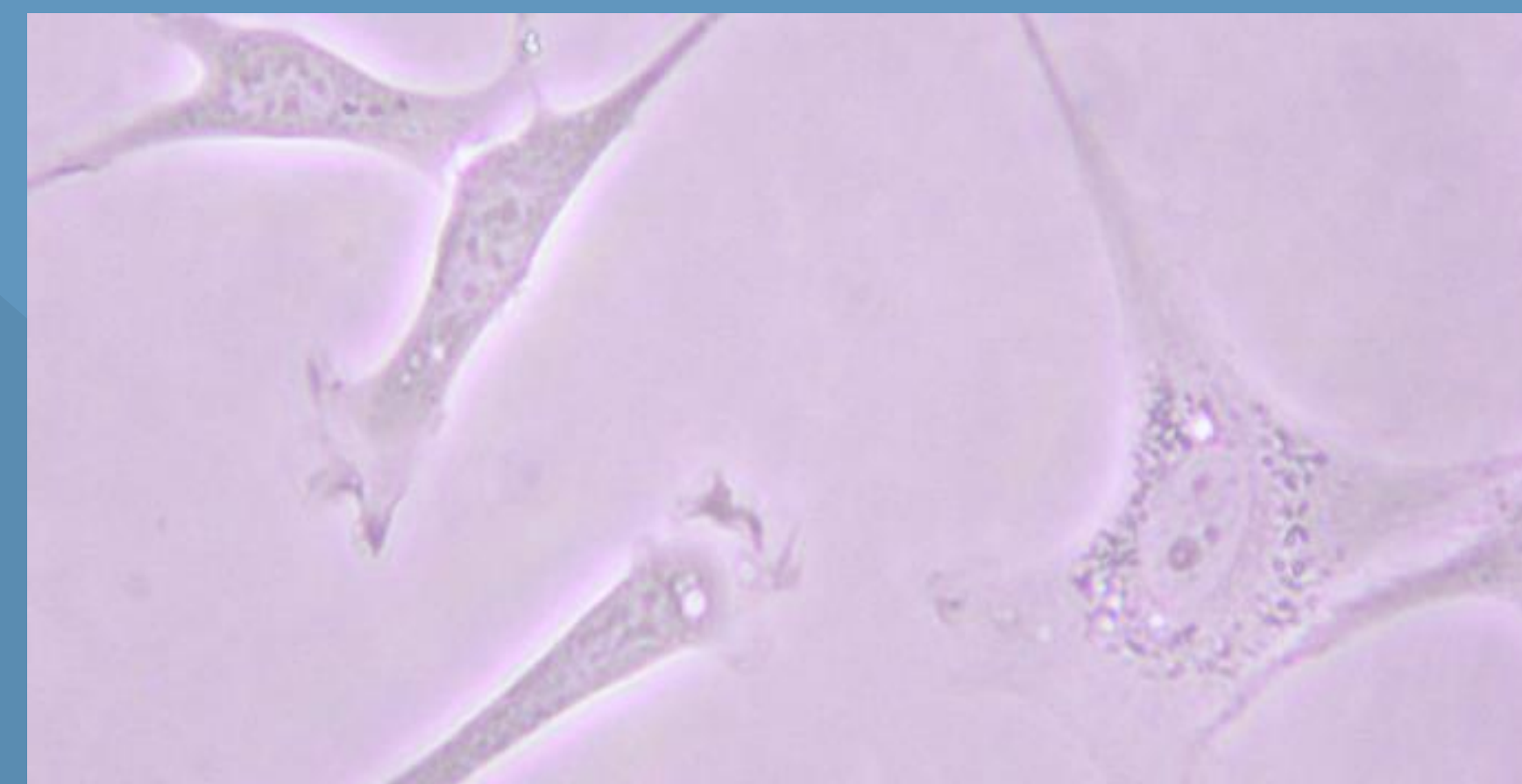
Multi Micro Alveolar Stimulation combined with LASER 915 nm and LED 650 nm for Skin Regeneration and Firming effect



SKIN AGING AND LAXITY

Skin aging is the result of dramatic modifications of skin homeostasis caused by intrinsic and extrinsic factors.

Dermal fibroblasts play a key role in the aging processes through the interactions with keratinocytes, adipocytes, and mast-cells.



SKIN AGING AND LAXITY

Skin fibroblasts contribute through the fibroblast-keratinocyte-endothelium axis to skin integrity and youthfulness.

They are also the main source of Extra Cellular Matrix (ECM).

Collagen degeneration and altered deposition of elastic tissue result in the impairment of the structural integrity of the dermal Extra Cellular Matrix (ECM).




GROWTH FACTORS IN SKIN REMODELLING

- Growth Factors, PRP and platelet gel are used to accelerate **tissue regeneration**, promote growth, survival and differentiation of cells in many organs and tissue, including skin. Growth factors stimulate the cross-talk and proliferation among different cells.
- The most important **rejuvenation process** for photoaged skin is the collagen remodeling process regulated by Growth Factors (FGF) that **influence cell proliferation and induce new collagen production.**

GROWTH FACTORS IN SKIN REMODELLING

Patients need an appropriate **treatment plan** based on their own situation and lifestyles

Glogau Photodamage Classification Scale

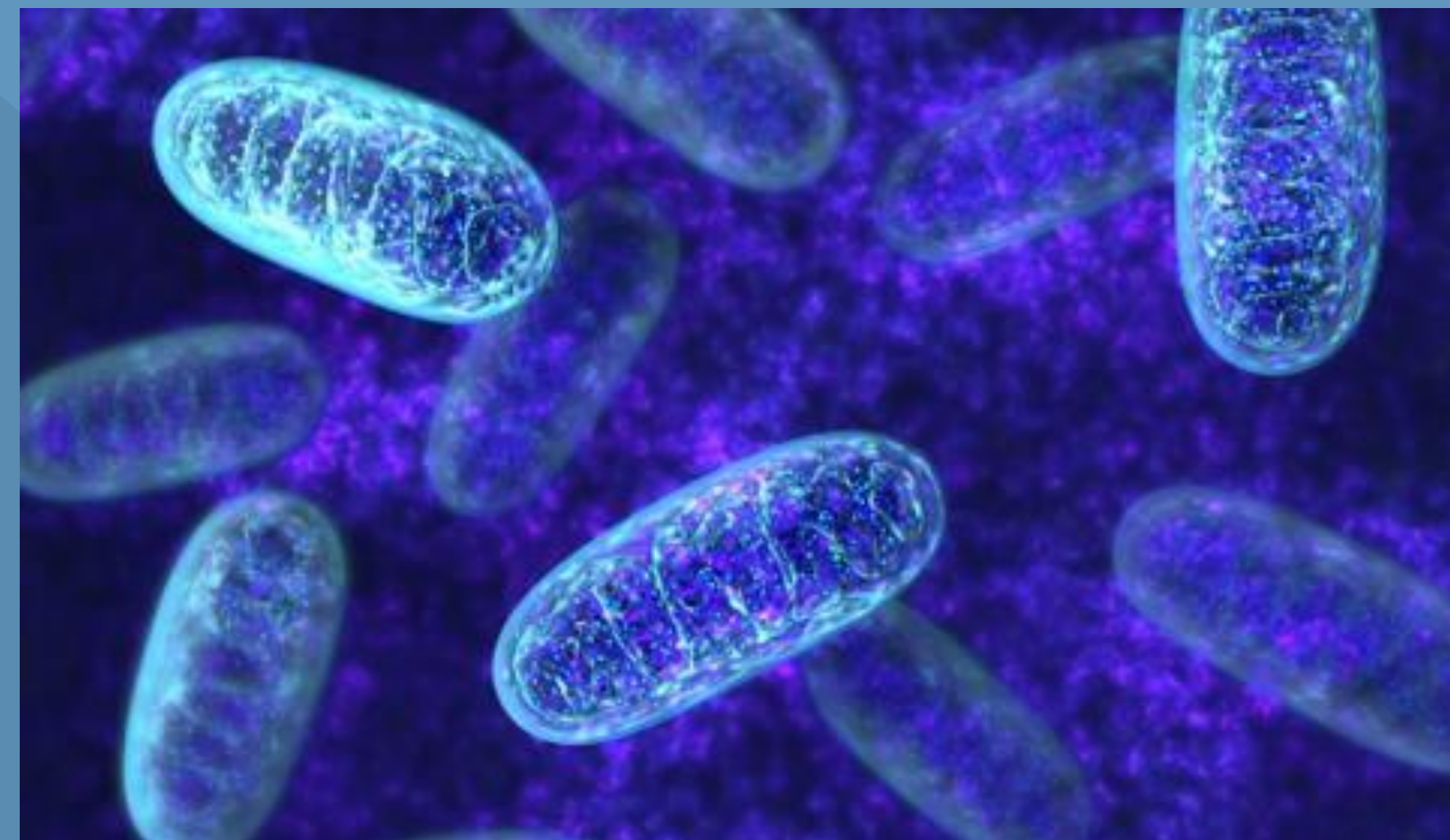
Type I: No wrinkles <i>Mild (20s–30s)</i>	Type II: Wrinkles in motion <i>Moderate (30s–40s+)</i>	Type III: Wrinkles at rest <i>Advanced (50s–60s+)</i>	Type IV: All wrinkles <i>Severe (65–70+)</i>
<ul style="list-style-type: none"> • Few, if any, wrinkles • Minimal pigment changes • No keratosis • Requires little or no makeup for coverage 	<ul style="list-style-type: none"> • Early wrinkling, only in motion, such as smile lines • Minor discoloration with early actinic keratosis • Requires some makeup 	<ul style="list-style-type: none"> • Persistent wrinkling, even when not smiling • Obvious discoloration of the skin with telangiectasias and actinic keratosis • Always wears makeup 	<ul style="list-style-type: none"> • Severe wrinkling • Photoaging • Gravitational and dynamic forces affecting skin • Actinic keratosis with or without cancer • Wears makeup with poor coverage
			

COMBINED THERAPY ACCORDING TO GLOGAU SCALE

- Lasers, IPL
- LED
- PRP
- Peelings
- Topical antioxidant and moisturizing cream
- Sunscreen (SPF 30-50+)

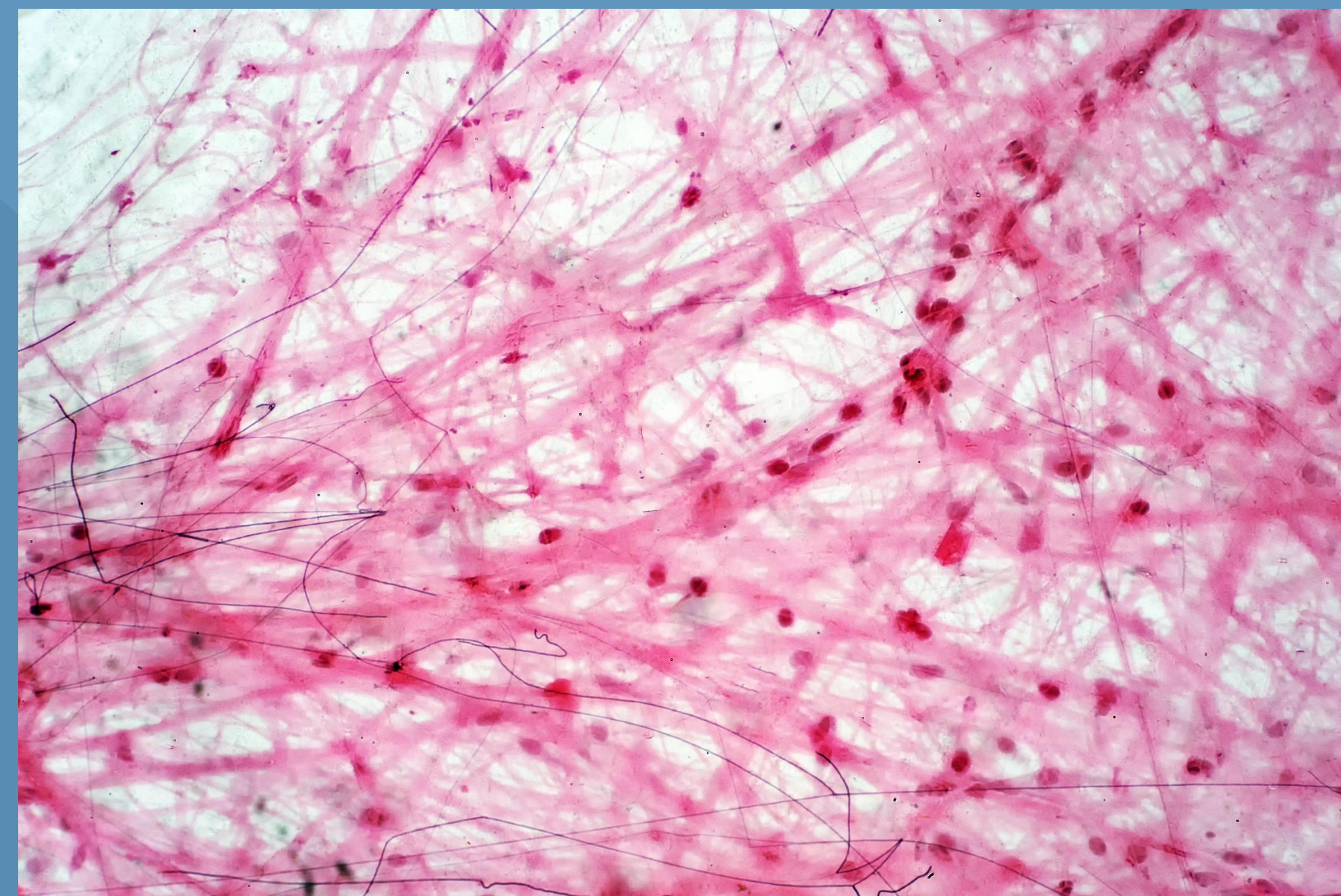
LED PHOTOBIOSTIMULATION

- L.E.D. (Light Emitted Diodes) technology acts through a cell bio stimulation, mediated by mitochondrial protoporphyrin IX photons absorptions; Lasers devices
- The consequence is an increased production of ATP, disposable for metabolic cell activity.
- The best clinical intensity or irradiance is around 50-100 mW.



LASER PHOTOBIOSTIMULATION

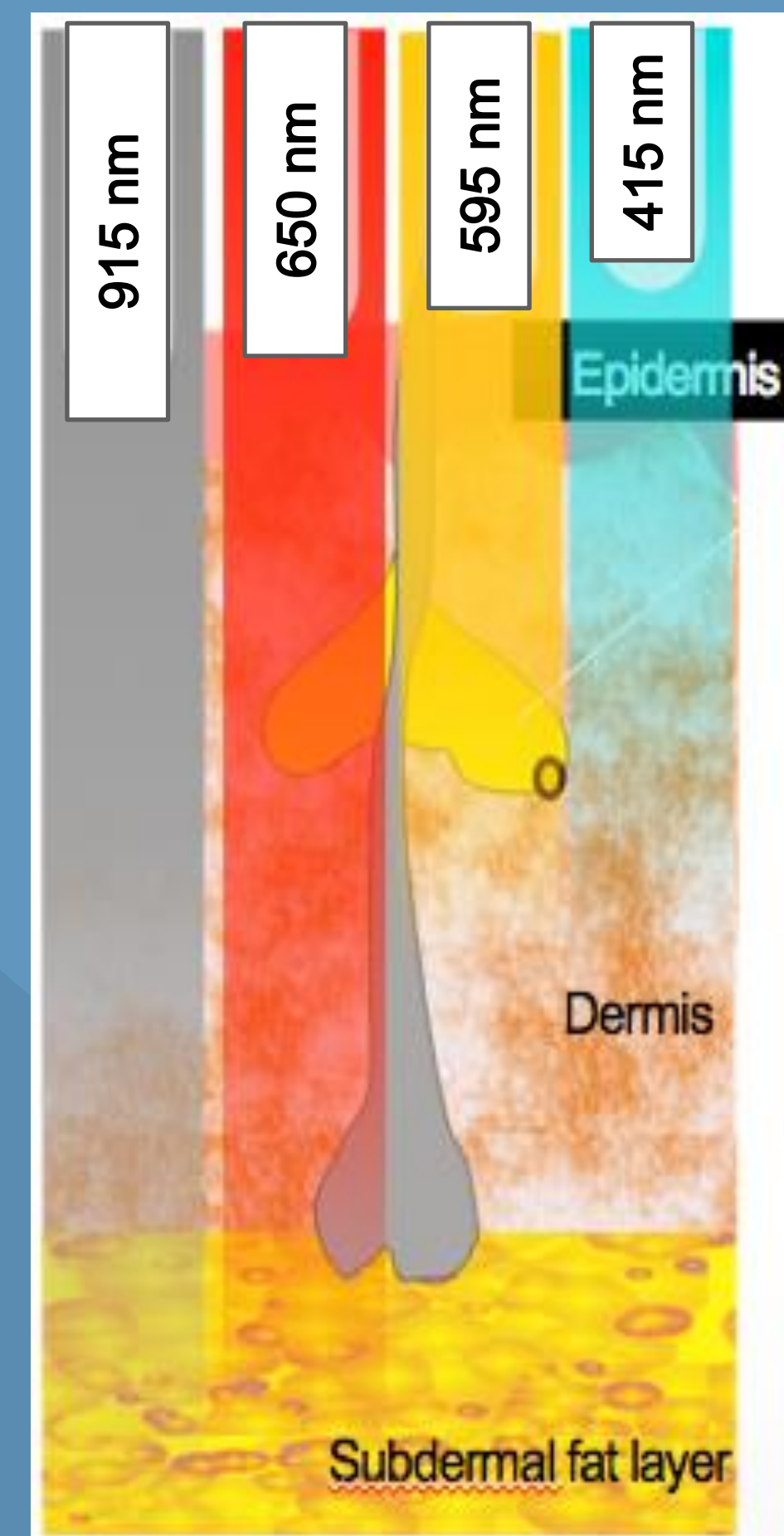
- Lasers devices are capable of emitting **coherent and monocromatic light.**
- It acts with selective phototermolysis creating a thermal effect and **enhancing metabolic processes.**



PHOTOBIOSTIMULATION – LASERS - LED

Wavelength must be chosen according to the tissue target

- **Blue light** (400-470nm): epidermis - 1mm depth
- **Yellow light** (540nm): papillary dermis - 0.5/2mm depth
- **Red light** (630-700nm) : reticular dermis-adnexa – 2/3 mm depth
- **Near infrared light** (800-1200nm): reticular dermis-hypodermis – 5/10mm depth



MULTI MICRO ALVEOLAR STIMULATION COMBINED WITH LED AND LASER

- icoone is the only device that incorporates Roboderm technology (exclusive patent), that allows to **triple the stimulation surface.**
- The microstimulators allow a **deeper and more efficient stimulation:** the Multi Micro Alveolar Stimulation (M.M.A.S.), combined with LED 650 nm and LASER 915 nm



MULTI MICRO ALVEOLAR STIMULATION COMBINED WITH LED AND LASER

- icoone microstimulations act on the mechanoreceptors, type III and IV, and on the neurovegetative system producing a **reflex action** on the sympathetic system extending to the subcutaneous tissues. This process is a "cascade control" with also a **production of cellular Growth Factors**.
- This action produces an **internal hydration and microcapillary vascularization** drop by drop.

STRETCHMARKS

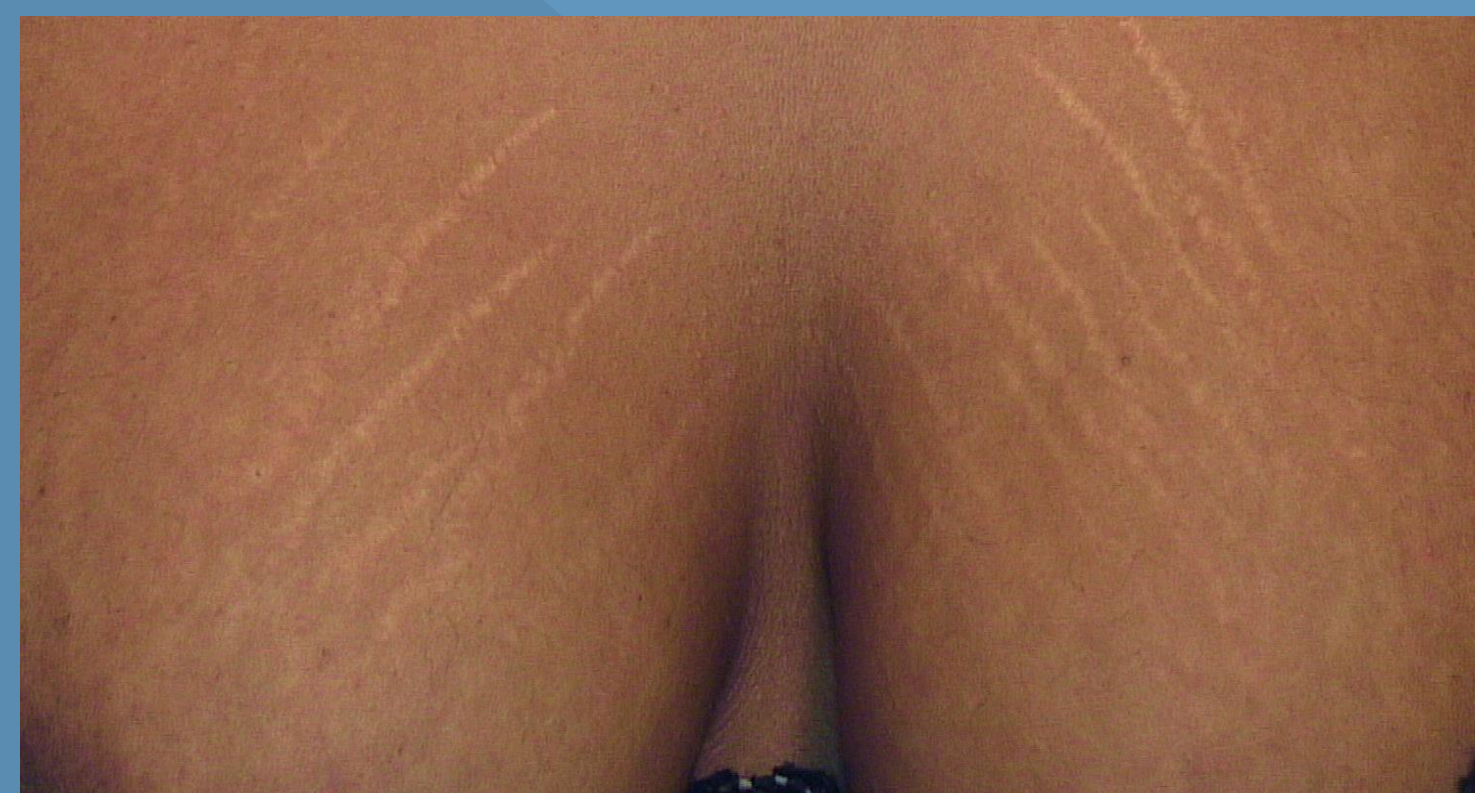
RED

Histopathology similar to recent scars:
lymphocytic infiltrate in derma, superficially and
deeply (periovascular) and long collagenous
fibers parallel to cutaneous surface



WHITE

Histopathology similar to atrophic scars:
epidermal thinning and flattening due to the
alteration of genic expression of collagen,
elastin and fibrillin synthesis

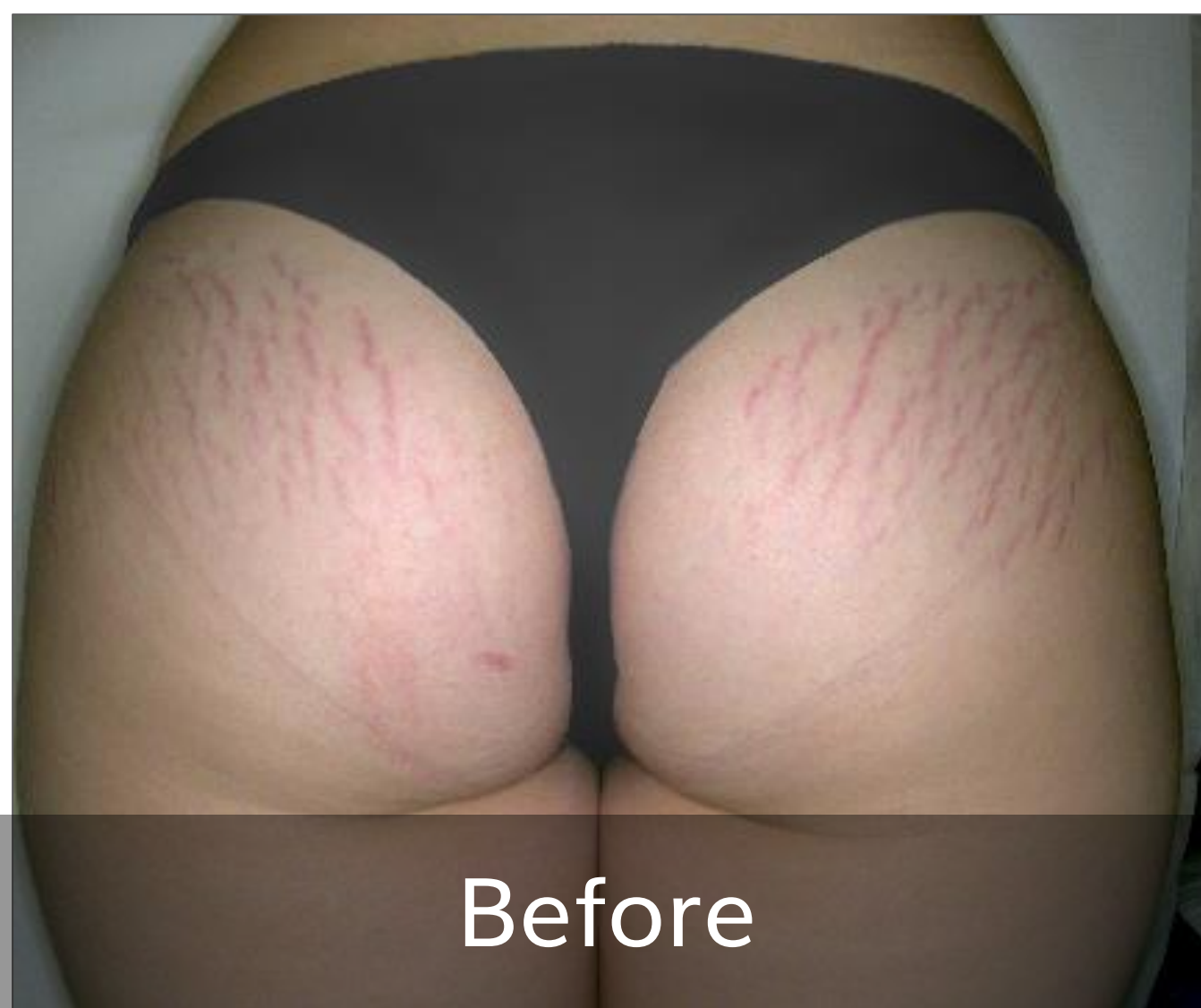


STRETCHMARKS RED: A CASE TREATED WITH MICROSTIMULATIONS COMBINED WITH LASER 915 NM AND LED 650 NM

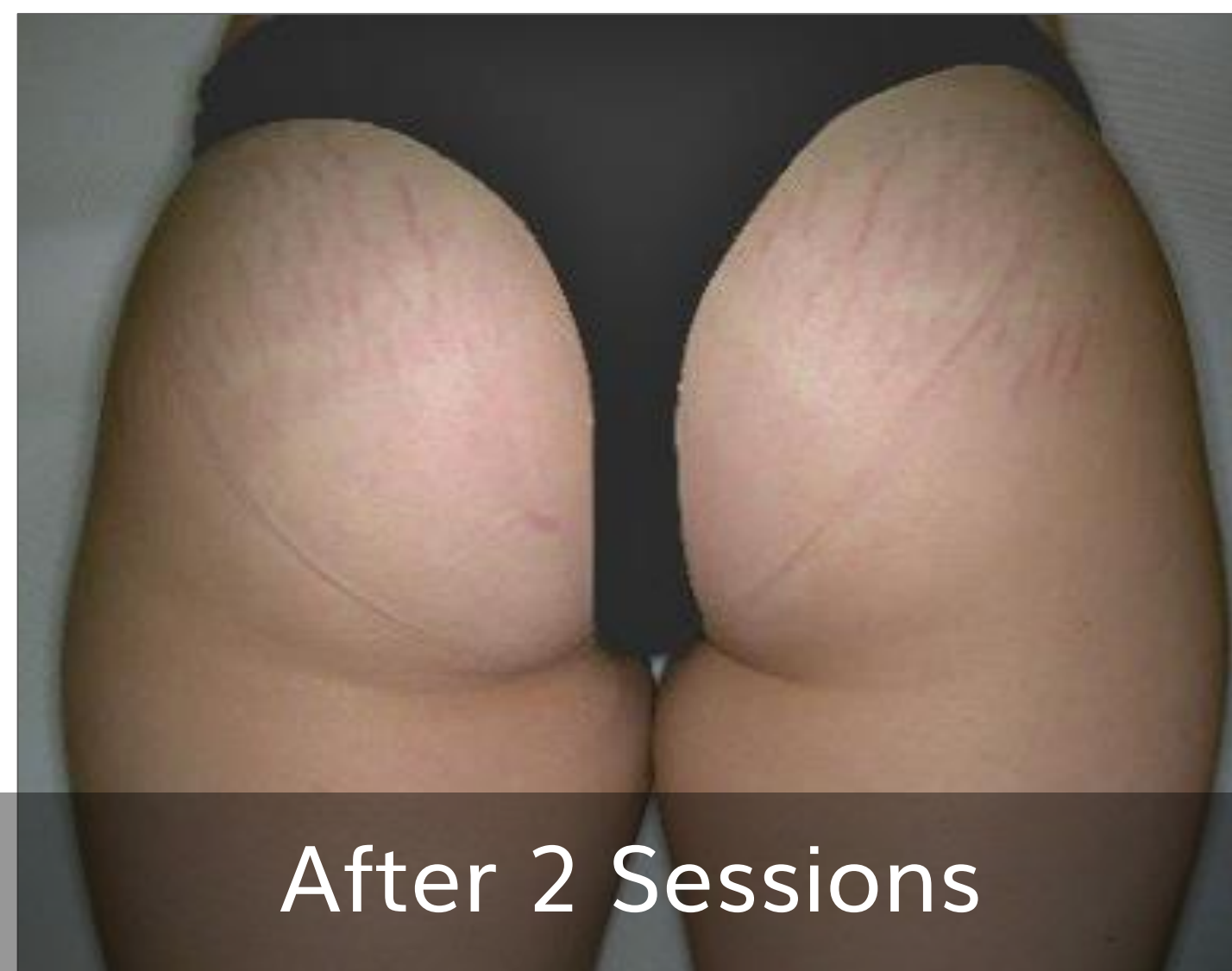
- **Anamensis:** weight gain during the lockdown with consecutive appearance of stretchmarks on gluteus and hips. No other therapies during the icoone LASER treatment.
- **Aims:** Recovery of the stretchmarks, skin quality improvement; improvement of the skin appearance.



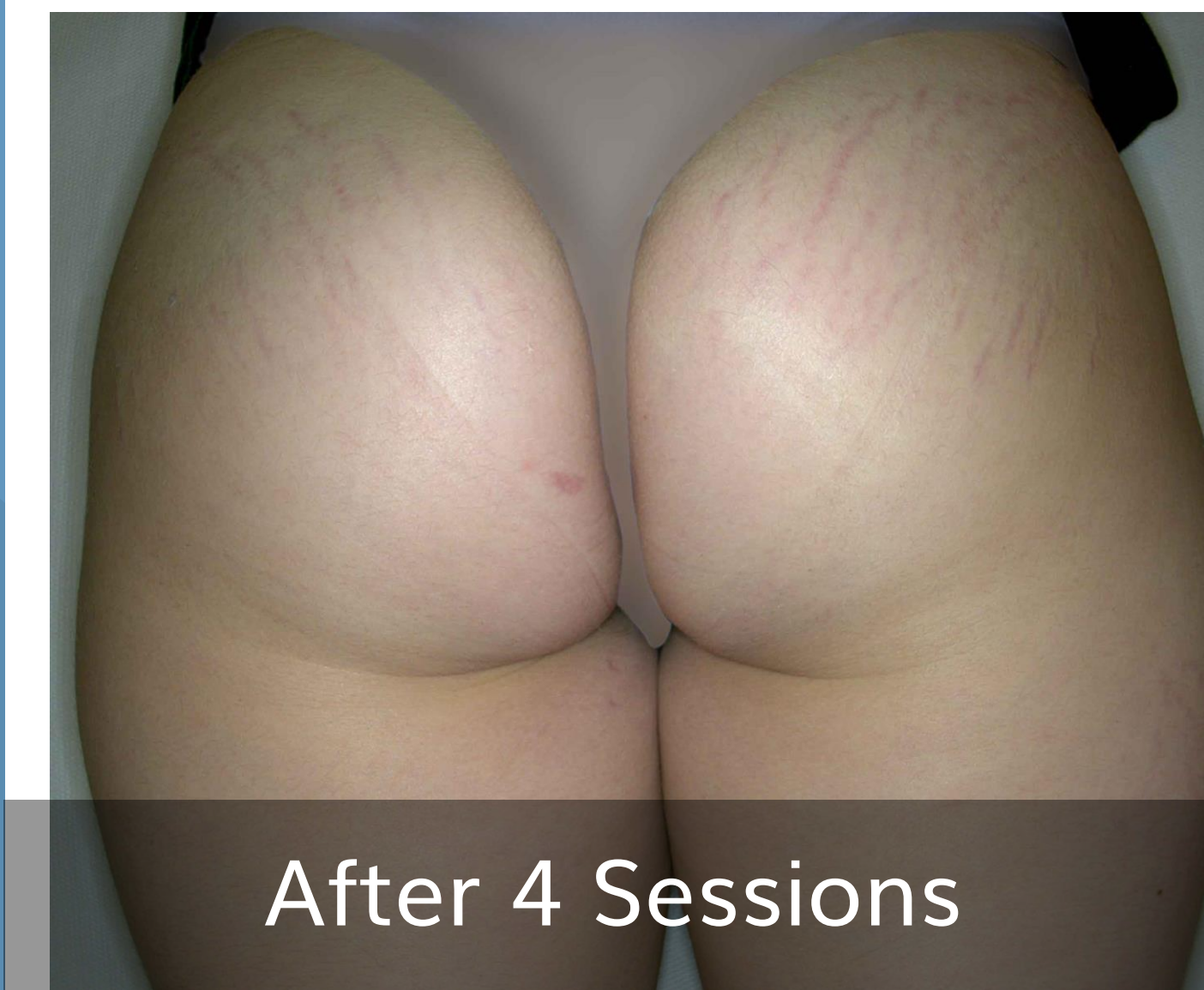
- FREQUENCY: ONCE A WEEK
- DURATION: 30 MINUTES



Before

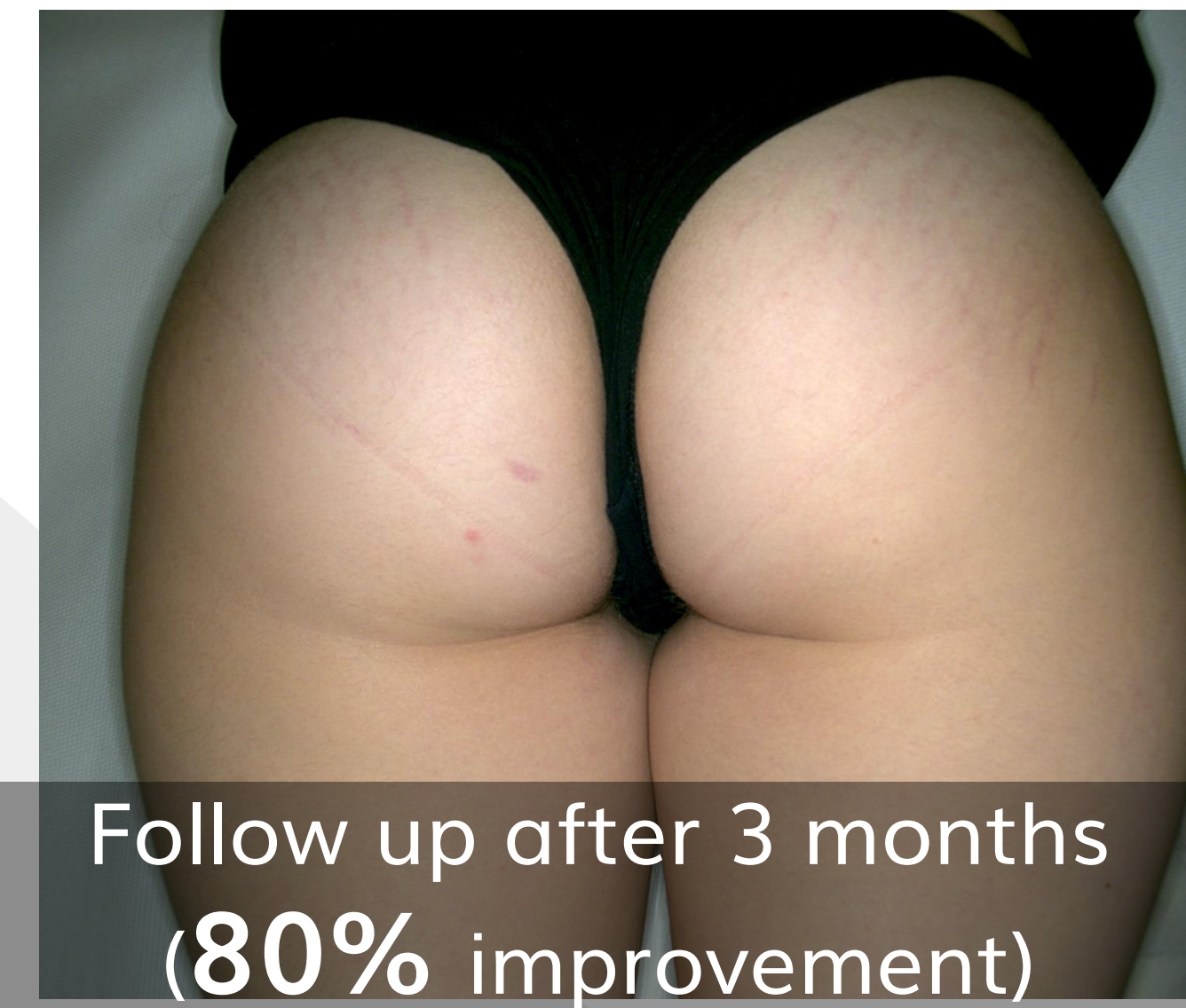
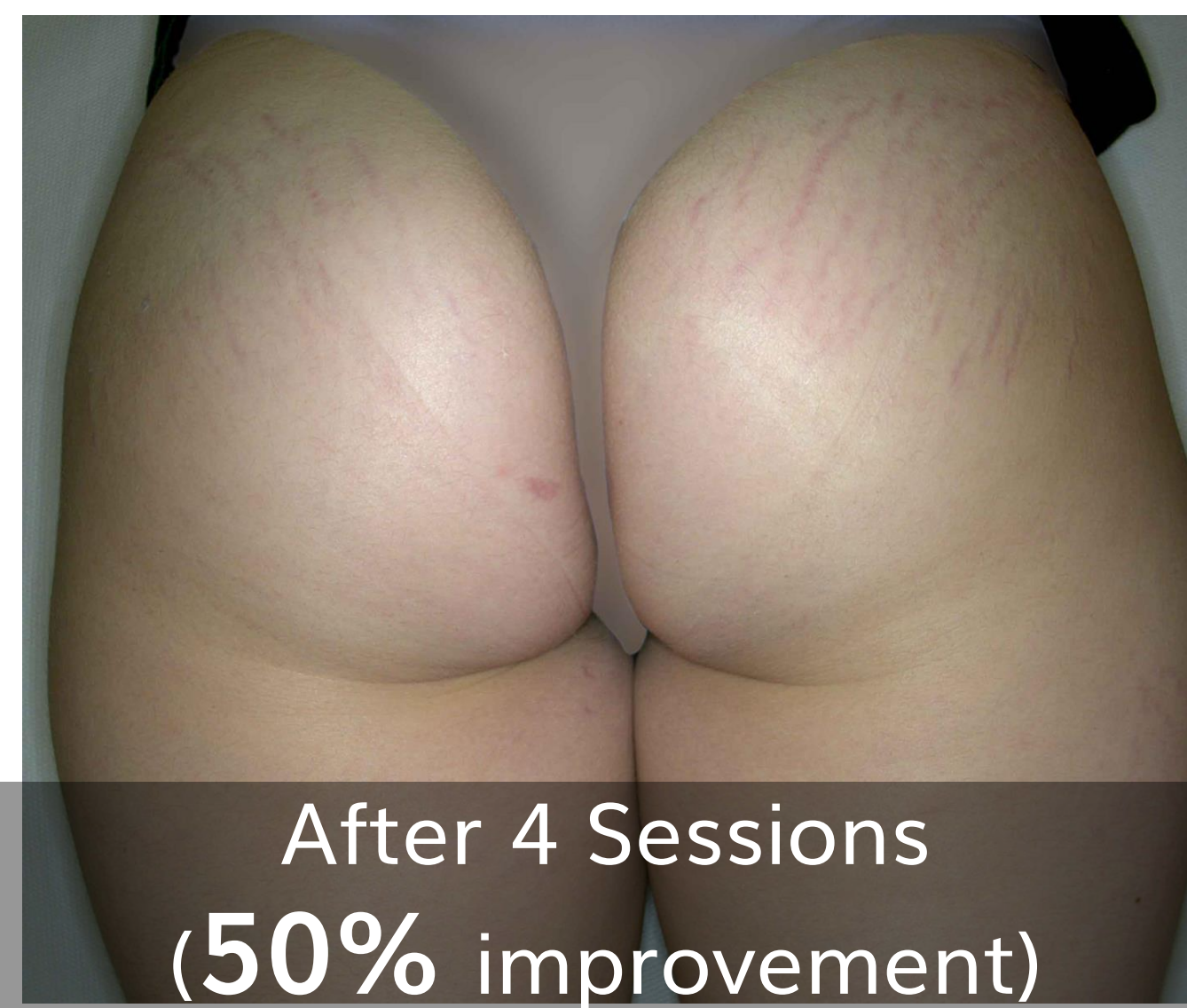
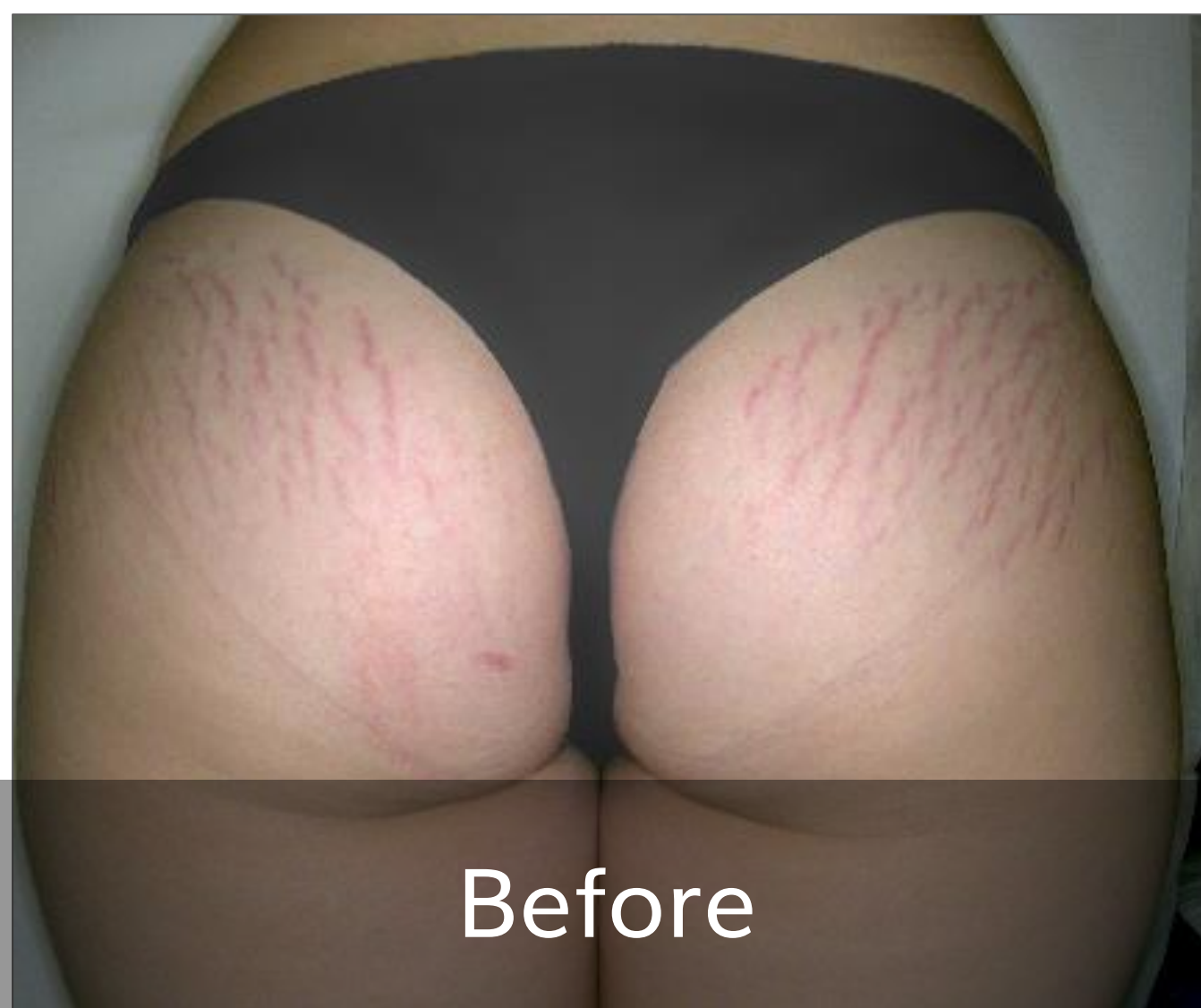


After 2 Sessions



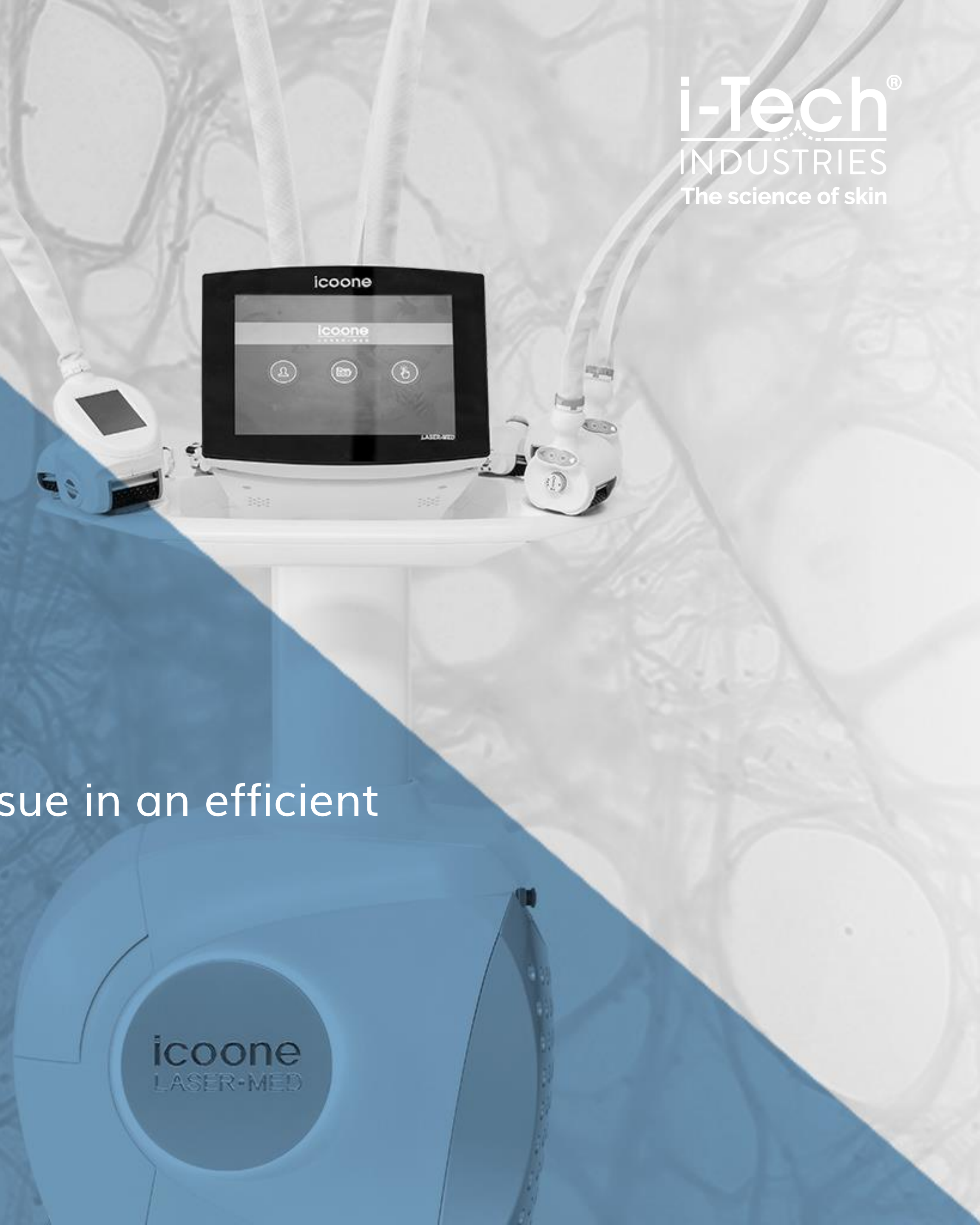
After 4 Sessions

- AFTER THE 4TH SESSION NO OTHER SESSIONS MADE
- FOLLOW UP CONDUCTED AFTER 3 MONTHS



CONCLUSIONS

- **Visible results from the first session and satisfying aesthetic results in just 4 sessions;**
- Treating a delicate skin with the icoone microstimulation was **painless;**
- There were **No side effects;**
- The microstimulations act on the connective tissue in an efficient way making a **reeducation of the tissue.**



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