Sofwave
Mode of Action

sofwave™

Smart Technology

Sofwave is a next generation ultrasound device intended to treat fine lines and wrinkles. Using a breakthrough patented technology that generates an Intense Ultrasound Beam™ (IUB), the device emits a high intensity, high frequency, parallel ultrasound beam array through seven ultrasonic transducers which are in direct contact with the skin.

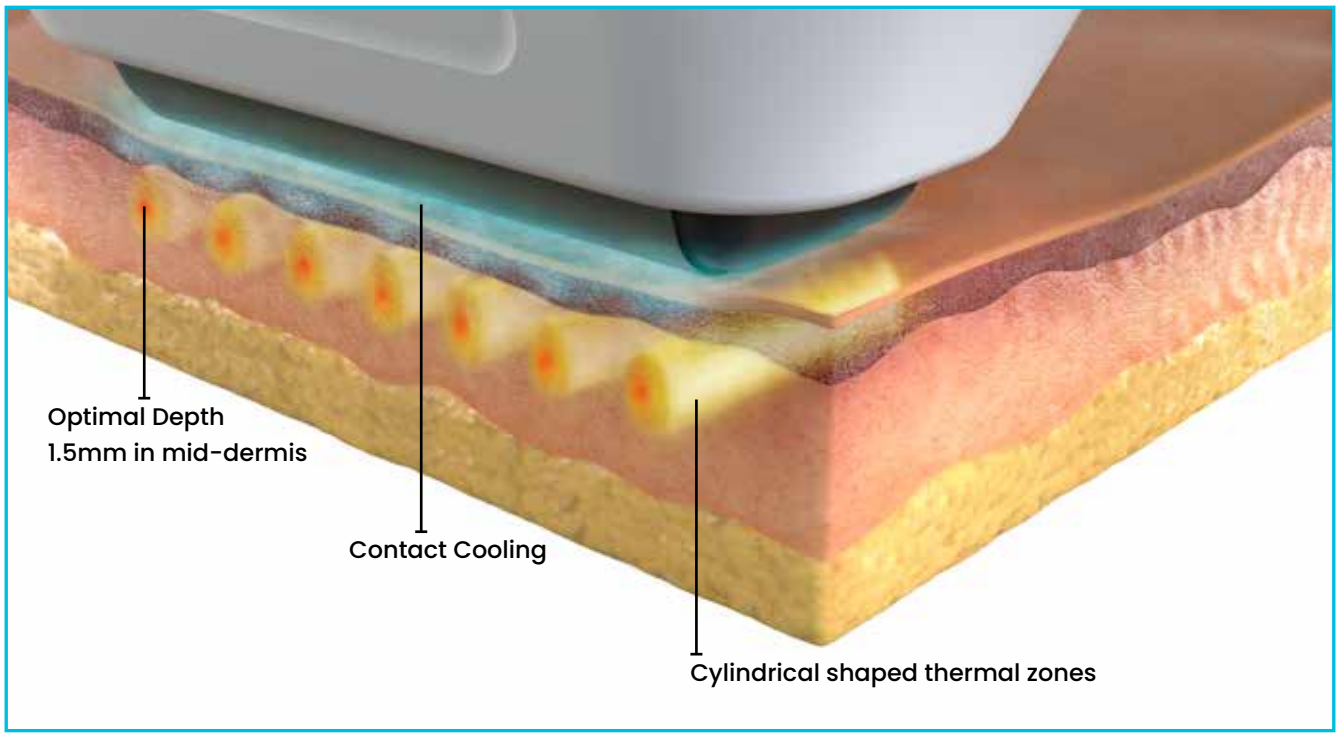
Smart Mode of Action

As the Sofwave parallel beams propagate through the tissue, an array of volumetric cylindrical shaped thermal zones are created, thereby creating a fractional Volumetric and Directional Thermal Impact™ (VDTI). The controlled elongated and directional thermal impact is created at a depth of 1.5mm in the mid-dermis, an ideal depth for the treatment of fine lines and wrinkles. The unique vector nature of Sofwave's impact, induces directional collagen remodeling in the optimal direction relative to skin wrinkles.

The maximal thermal effect achieved in the dermis is between 55-65˚C which is the optimal temperature range for the breakdown of collagen. This thermal process stimulates an inflammatory wound-healing response and subsequent remodeling and concentration increase of collagen (neocollagenesis) and elastin (elastogenesis) leads to a reduction of wrinkles and fine lines, and an overall improvement in skin laxity.

The applicator's proprietary solid-state energizer module which holds 7 ultrasound transducers, allows for direct contact of the transducers to the skin. This unique direct skin contact enables the integration of cooling and real-time temperature monitoring for excellent epidermal protection, accurate targeting of the thermal effect and optimal pain management.

How it Works



Scientific Validation

Numerical simulations of the VDTIs were matched to the pre-clinical histopathology results, showing the majority of the thermal effect between 1-2mm within the dermis with an optimal effect at 1.5mm depth.

This correlates to the pre-clinical histopathology results that show marked VDTI fractional zones with full collagen denaturation and no damage to the epidermis or to underlying structures - facial fat, nerves, blood vessels or bone.

Sofwave's Fractional Thermal Effect

Pre-clinical, 4.4J

Clinical Results

Baseline

Single Treatment 3 month FU

Courtesy of Arielle Kauvar, MD

About Sofwave

Heritage of Innovation

From the founders of the aesthetic industry, with proven expertise, Sofwave Medical brings a novel approach to skin treatments using proprietary Intense Ultrasound Beam™ (IUB) technology.

Game Changing Approach

Sofwave Medical's breakthrough technology brings a new standard of care to aesthetic treatments, providing physicians with smart yet simple, effective and safe aesthetic treatments for their patients.

Commitment & Passion

Driven by passion, Sofwave Medical is a fast-growing medical aesthetic technology innovator committed to developing non-invasive cutting-edge technologies for the aesthetic market.

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