

PULSEWAVE MINIWAVE™ — ESWT SHOCKWAVE SYSTEM

The PulseWave MiniWave™ is a professional, medical-grade, portable extracorporeal shockwave therapy device engineered to deliver kinetic and acoustic energy for musculoskeletal, body-shaping, and sexual wellness functional restoration.



PRODUCT OVERVIEW

The PulseWave MiniWave™ uses controlled, high-energy acoustic pressure waves to induce mechanotransduction in targeted tissues. This process stimulates cellular and extracellular responses that support repair, reduce pain, and improve function.

The non-invasive modality is designed to activate biological signaling pathways (such as angiogenesis, collagen synthesis, and fibroblast activation) without the use of pharmaceuticals or surgery. Its portable design and programmable protocols enable seamless integration into clinical workflows for both standalone and adjunctive regenerative therapies.

KEY SPECIFICATIONS & CLINICAL ADVANTAGES

- **Technology:** Radial ESWT acoustic (shock) wave therapy.
- **Portability:** Compact, lightweight main unit (1.3 kg / 200x230x78 mm); optional battery operation.
- **Control & Software:** Touchscreen OLED interface controlled via included tablet app; features 4 groups with 45 preset anatomical protocols and upgradeable firmware.
- **Key Parameters:**
 - Adjustable energy (10–190mJ in 10mJ increments)
 - Frequency (1–21 Hz), with continuous and pulse modes
- **Handpiece & Durability:** Interchangeable transmitters (6mm to 36mm); handpiece rated for **2 million** pulses; transmitters for **300k** pulses.
- **Clinical Advantages:** Supports a wide range of musculoskeletal, sexual wellness, and aesthetic indications; enhances outcomes when combined with PRP, exosomes, or peptide therapies.

MECHANISM OF ACTION

Acoustic wave therapy delivers precise mechanical energy to tissue, triggering a cascade of regenerative processes:

- **Induces Mechanotransduction:** Acoustic pressure waves create transient cellular membrane permeability, improving intercellular communication.
- **Promotes Angiogenesis & Vascularization:** Increases blood flow through vasodilation and stimulates new blood vessel formation (neovascularization), enhancing nutrient delivery and metabolic waste removal.
- **Activates Fibroblast Proliferation:** Stimulates fibroblasts to increase production of collagen and extracellular matrix (ECM), improving tissue strength and elasticity.
- **Modulates Inflammation:** Influences local inflammatory mediators to support a pro-healing environment and reduce excessive fibrosis or scar tissue formation.
- **Converts Cell Signaling:** Converts chronic pain signals to acute, triggering regeneration.
- **Enhances Regenerative Signaling:** Mechanical stress promotes the local release of growth factors, improving the responsiveness of resident stem and progenitor cells.





KEY DEVICE COMPONENTS & CLINICAL USE FEATURES

- **Ergonomic & Portable Design:** Lightweight handpiece (0.6 kg) and compact main unit enable easy handling and treatment in various clinical settings.
- **Application:** For professional use only by trained clinicians. Typical treatment sessions last 10-15 minutes per area.
- **Safety & Maintenance:** Operate per manufacturer guidelines. Follow recommended maintenance for handpieces and transmitters to ensure device longevity and safety.
- **Integration:** Often used in a series of sessions as part of a multimodal rehabilitation or regenerative aesthetic plan. Ideal for use before or after administering biologic adjuncts (i.e., PRP).
- **Workflow:** Clinician selects the appropriate anatomical protocol and transmitter, then applies the handpiece to the target tissue using coupling gel. Energy settings can be adjusted in real-time.

INDICATIONS & USE CASES

- **Musculoskeletal & Pain:** Tendinopathies (shoulder, patellar, Achilles), plantar fasciitis, epicondylitis, trigger points, bursitis, non-union fractures, muscle pain, and low back pain.
- **Rehabilitation:** Sports injuries, post-surgical recovery, and functional restoration.
- **Aesthetic & Soft Tissue:** Cellulite reduction, body contouring, skin tightening, scar/stretch mark remodeling, and post-liposuction tightening.
- **Specialized Therapies:** Erectile dysfunction, Peyronie's disease, chronic pelvic pain, diabetic foot ulcers, and wound care.
- **Adjunctive Use:** Synergistic pairing with PRP, exosome, and peptide-based regenerative formulations to enhance delivery and efficacy.



It is intended for use by trained clinicians in orthopedic, sports medicine, pain management, and regenerative aesthetic settings.

The PulseWave MiniWave is a professional medical device. It is not intended to treat systemic disease and should be used as part of a comprehensive clinical management plan.

561-325-7000 📞

info@RegenOMedix.com ✉️

141 NW 20th St, Boca Raton, FL 33431 📍

RegenOMedix.com 🌐

