



Treatment—Minimize harm to patients

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Model **LCA200** Ultrasound Therapeutic Device for Ashi Points

Non-invasive solution for chronic soft tissue injury

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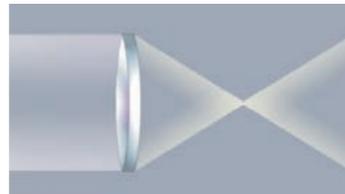
This is a brand new solution for the rehabilitation of chronic soft tissue injury. Low-intensity pulsed ultrasound can be safely induced to injured soft tissue which will promote tissue repair and pain alleviation.



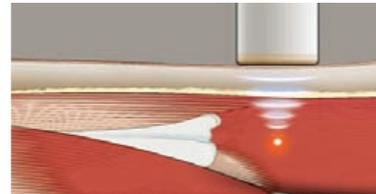


Principle of Focused Ultrasound Therapy

Low-intensity pulsed ultrasound is a form of mechanical energy that can be safely transmitted into living tissue as high frequency acoustical pressure waves and can be focused at targeted lesions. The micromechanical strains produced by pressure waves will result in biochemical events at cellular level, including the promotion of endogenous analgesic substance release that can alleviate pain and also impact the level of prostaglandin E2 and PH value in local region, thus restrain inflammation and promote tissues repair.



As sunbeams can be focused by convex lens, ultrasound can be focused by a transducer



Focused ultrasound was applied on soft tissue

Indication

Chronic soft tissue injury on neck-shoulder, abdomen and limbs

Clinical and Technical Advantages

- 1.Safe and non-invasive imitation of Chinese Acupuncture
- 2.Promotion of tissue repair, significant alleviation of pain
- 3.Suitable for both superficial and deep seated tissue
- 4.Tailor-made transducers for different indications
- 5.Dedicated coupling medium for focused ultrasound therapy



Transducer No.1, Focal Length: 3.75cm
For the treatment of deep seated tissues like rhomboideus

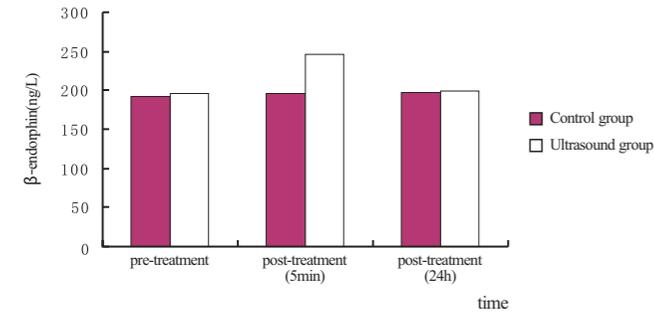


Transducer No.2, Focal Length: 1.25cm
For the treatment of superficial tissues like supraspinal ligaments



Treatment rationale

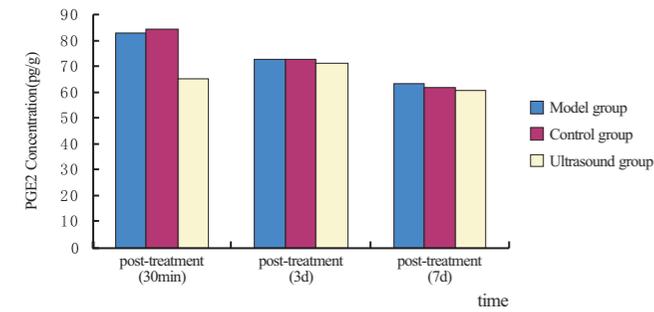
1. Enhance the release of endogenous Analgesic substance



Comparison of β -endorphin in plasma between control group and ultrasound group pre-treatment and post-treatment.

Wang Tao, Su Jing. Changes in prostaglandin E2 and pH value in injured muscle tissue and beta-endorphin in plasma after a single treatment of focused ultrasound in rabbits with chronic soft tissue injury. *Journal of Clinical Rehabilitative Tissue Engineering Research*, March 25th, 2008 VOL.12, No.13

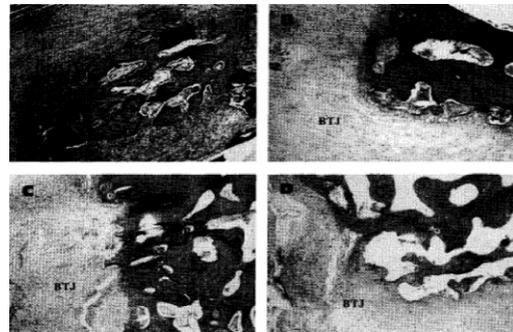
2. Control inflammatory reaction



Comparison of PGE2 Concentration in local muscle tissue among three groups after treatment

Wang Tao, Su Jing. Changes in prostaglandin E2 and pH value in injured muscle tissue and beta-endorphin in plasma after a single treatment of focused ultrasound in rabbits with chronic soft tissue injury. *Journal of Clinical Rehabilitative Tissue Engineering Research*, March 25th, 2008 VOL.12, No.13

3. Promote the repair of injured soft tissue



Promotion of healing on fibrocartilage zone of patellar bone-tendon junction by ultrasound

Yang Xiaohong, Chen Honghui, Wang Wen, et al. Experimental study of low-intensity pulsed ultrasound stimulation on fibrocartilage zone of patellar bone-tendon junction healing. *Guangzhou Medicine*, 2007 VOL.38, No.3

Comprehensive solutions



Professional Focused Ultrasound Device
Completely independent intellectual property



Experienced Specialists
Professional clinical and engineering support and training



Customized solutions
Clinical solution, business solution, marketing solution and service solution