

EXOGEN 4000+ and EXOGEN EXPRESS

Clinical Studies

The EXOGEN Ultrasound Bone Healing System has been evaluated for osseous defect healing in a number of clinical studies^{1-10,12-14,16-19,21-22,24-33,36,38,41-46}. These studies have demonstrated acceleration of fresh fracture by 38% and a non-union heal rate of 86%.

Metals & Implants

Clinical data indicates that healing rates and acceleration of osseous defect repair is not affected by internal or external metal fixation. Several reference articles have focused on conventional therapeutic ultrasound's effect on surgical metallic, biodegradable and bioresorbable implants and conclude there are no untoward effects^{11,14,15,20,23,35,40}.

Mechanism of Action

Four review articles^{13,34,37,39} have assessed the clinical and basic science evidence for the EXOGEN Ultrasound Bone Healing System. Their analyses suggested the EXOGEN Ultrasound Bone Healing System induced cellular reactions at each phase of fracture healing from inflammation through to endochondral ossification.

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