

AccelStim™

Bone Healing Therapy



 **ORTHOFIX®**

ACCELERATE YOUR PATIENT RECOVERY

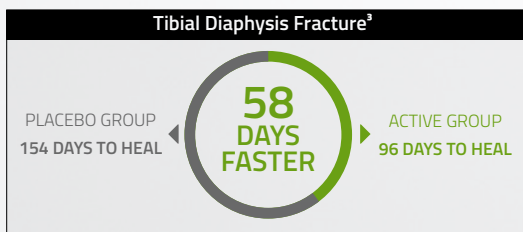
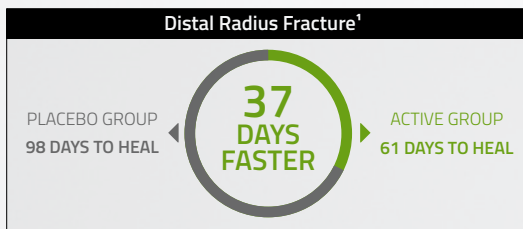
AccelStim™
Bone Healing Therapy

The AccelStim™ device provides a safe and effective nonsurgical treatment to improve nonunion fracture healing and accelerate the healing of specific fresh fractures.* The device stimulates the bone's natural healing process by low-intensity pulses of ultrasound (LIPUS) waves to the fracture site.¹⁻³

Proven Effective Therapy

- Accelerates Fracture Healing Recovery by **38%**¹
- Overall clinical success rate of **86%** for nonunion fractures²
- **20 minutes** daily treatment time

Faster healing in both cortical and cancellous bone



NEWEST
BONE GROWTH STIMULATION DEVICE
ON THE MARKET

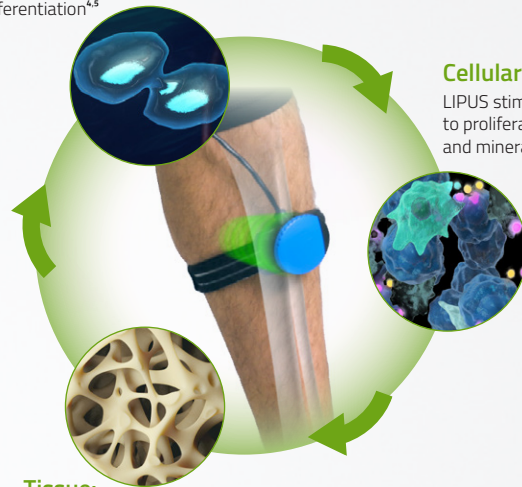
LIPUS has been proven to stimulate bone healing at the molecular, cellular, and tissue level.

Molecular:

LIPUS stimulates signaling pathways, leading to increased cell differentiation^{4,5}

Cellular:

LIPUS stimulates bone cells to proliferate, differentiate, and mineralize⁶



Tissue:

LIPUS increases new bone formation⁷



Tibia/Fibula 89.6%⁸



Hand/Wrist 91.8%⁹



Scaphoid 92.2%¹⁰

*Brief Prescribing Information:

The AccelStim™ device is indicated for the non-invasive treatment of established nonunions excluding skull and vertebra, and for accelerating the time to a healed fracture for fresh, closed, posteriorly displaced distal radius fractures and fresh, closed, or Grade I open tibial diaphysis fractures in **skeletally mature adult individuals** when these fractures are orthopedically managed by closed reduction and cast immobilization. A nonunion is considered to be established when the fracture site shows no visibly progressive signs of healing.

Full prescribing information can be found in product labeling on our patient education website BoneGrowthTherapy.com or by calling Patient Services at 1-800-535-4492.

Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.

References:

1. Kristiansen TK, Ryaby JP, McCabe J, Frey JJ, Roe LR. Accelerated healing of distal radial fractures with the use of specific, low-intensity ultrasound. *J Bone Joint Surg.* 1997;79-A(7):961-973. 2. Nolte PA, van der Krans A, Patka P, Janssen IMC, Ryaby JP, Albers GHR. Low-intensity pulsed ultrasound in the treatment of nonunions. *J Trauma.* 2001;51(4):693-703. 3. Heckman JD, Ryaby JP, McCabe J, Frey JJ, Kiloynne RF. Acceleration of tibial fracture-healing by non-invasive, low-intensity pulsed ultrasound. *J Bone Joint Surg.* 1994;76-A(1):26-34. 4. Panvizi J, Wu CC, Lewallen DG, Greenleaf JF, Bolander ME. Low-intensity ultrasound stimulates proteoglycan synthesis in rat chondrocytes by increasing aggrecan gene expression. *J Orthop Res: official publication of the Orthopaedic Research Society.* 1999;17(4):488e494. <https://doi.org/10.1002/jor.1100170405>. PubMed PMID: 10459753. 5. Azuma Y, Ito M, Harada Y, Takagi H, Ohta T, Jingushi S. Low-intensity pulsed ultrasound accelerates rat femoral fracture healing by acting on the various cellular reactions in the fracture callus. *J Bone Miner Res.* 2001;16(4):671-80. 6. Gurkan UA, Akkus O. The mechanical environment of bone marrow: a review. *Ann Biomed Eng.* 2008; 36(12): 1978e1991. <https://doi.org/10.1007/s10439-008-9577-x>. PubMed PMID: 18855142. 7. Wang, Y.; Peng, W.; Liu, X.; Zhu, M.; Sun, T.; Peng, Q.; Zeng, Y.; Feng, B.; Zhi, W.; Weng, J.; et al. Study of bilineage differentiation of human-bone-marrow-derived mesenchymal stem cells in oxidized sodium alginate/N-succinyl chitosan hydrogels and synergistic effects of RGD modification and low-intensity pulsed ultrasound. *Acta Biomater.* 2014, 10, 2518–2528. 8. Bioventus LLC. Tibia nonunion claims based on EXOGEN Registry. Data on file, RPT-000391. 9. Bioventus LLC. Hand/Wrist nonunion claims based on EXOGEN Registry. Data on file, RPT-0001411. 10. Bioventus LLC. Scaphoid nonunion claims based on EXOGEN Registry. Data on file, RPT-000398. 11. PMA P210035

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