

# EXOGEN

EXOGEN is a safe, effective and painless treatment that helps speed up the natural bone healing process.



EXOGEN is:

EXOGEN heals a wide range of broken bones, from those recently broken<sup>1</sup> to situations where the bone is taking longer than normal to heal (delayed-union) or even when your bone appears to have stopped healing (non-union).<sup>2</sup>

EXOGEN uses a low intensity ultrasound signal EXOGEN stimulating the healing process of your broken bone.

You only have to use the EXOGEN unit once a day for 20 minutes and it is applied by you in the comfort of your own home.

- Effective with a single 20 minute treatment per day
- Proven to stimulate bone healing in numerous clinical studies<sup>3-4</sup>
- Approved for the treatment of recently broken bones and bones that have not healed within the normal expected time<sup>5</sup>
- Safe and painless and may save you an operation
- EXOGEN units have been used to successfully heal broken bones by hundreds of thousands of patients since 1997 worldwide<sup>6</sup>

For more details contact 0845 272 5957 or ask your surgeon for EXOGEN

[www.healmybone.com](http://www.healmybone.com)

#### References

1. Heckman JD, Ryaby JP, McCabe J, Frey JJ, Kilkoyne RF. (1994) Acceleration of Tibial Fracture-Healing by Non-Invasive, Low-Intensity Pulsed Ultrasound. *J Bone Joint Surg* 79-A (1): 26-34 2. Nolte PA, van der Krans A, Patka P, Janssen IMC, Ryaby JP, Albers GHR. (2001) Low-intensity pulsed ultrasound in the treatment of nonunions. *J Trauma* 51(4): 693-703 3. Rubin, C., Bolander, M., Ryaby, J. P. & Hadjiargyrou, M. (2001) The Use of Low-Intensity Ultrasound to Accelerate the Healing of Fractures *J. Bone Jt. Surg.* 83-A, 259-270 4. Siska PA, Gruen GS, Pape HC 2008. External adjuncts to enhance fracture healing. What is the role of ultrasound? *Injury*. 39:1095-5. 5. Exogen - Instructions for use 6. Internal S&N Company data

#### EXOGEN Indications for Use

The EXOGEN 4000+\*, or any other EXOGEN Bone Healing System, is indicated for the non-invasive treatment of established non-unions excluding skull and vertebra. In addition, EXOGEN is indicated 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 individuals when these fractures are orthopaedically managed by closed reduction and cast immobilization.

There are no known contraindications for the EXOGEN device. Safety and effectiveness has not been established for individuals lacking skeletal maturity; pregnant or nursing women; patients with cardiac pacemakers; on fractures due to bone cancer; or on patients with poor blood circulation or clotting problems. Some patients may be sensitive to the ultrasound gel. In the EU, Australia, New Zealand and Canada, EXOGEN Ultrasound Bone Healing System is for the non-invasive treatment of osseous defects (excluding vertebra and skull) that includes:

- Treatment of delayed union and non-unions
- Accelerating the time to heal of fresh fractures
- Treatment of stress fractures
- Accelerating repair following osteotomy
- Accelerating repair in bone transport procedures
- Accelerating repair in distraction osteogenesis procedures
- Treatment of joint fusion

For all other regions please visit [www.exogen-intl.com](http://www.exogen-intl.com)

#### Biologics & Spine

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