



Healthcare Professionals



Biomet® EBI®
Bone Healing System



*Powered by Pulsed
Electromagnetic Fields*



How does the Bone Healing System work?

The Biomet® EBI® Bone Healing System delivers a clinically proven, low-level electrical stimulation technology called a Pulsed Electromagnetic Field (PEMF) through a complete complement of flexible, hand-crafted treatment coils designed to treat the entire appendicular system.

Pre-clinical evidence has demonstrated that the mechanism of action behind PEMF technology affects various critical remodeling aspects of the bone healing process including osteogenesis, chondrogenesis, angiogenesis, and proteoglycans. It also has been shown to specifically upregulate a group of bone morphogenetic proteins (BMPs) that play a vital role in bone growth development.^{1,2,3,4*}



A pre-selected, flexible, hand-crafted treatment coil which accompanies the Bone Healing System is placed over the targeted treatment site, providing complete therapeutic coverage to achieve optimal healing outcomes. The area within the treatment coil is stimulated inducing the body's natural healing mechanisms to safely and effectively promote bone growth at the targeted treatment site.

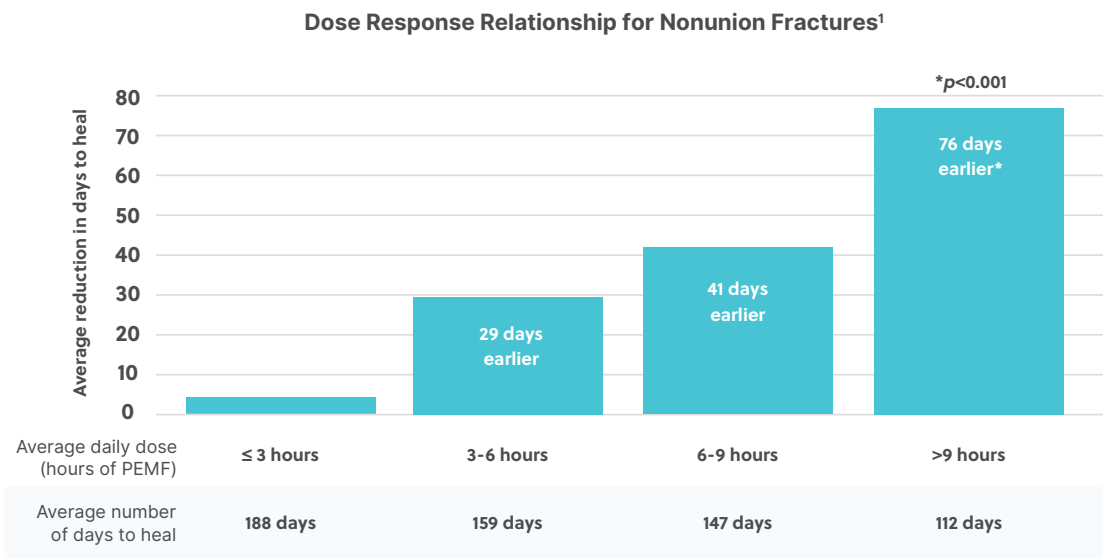
6 Days

Reduction in Healing Time^{5*}

Linear regression analysis indicated a 6-day reduction in time to heal was achieved for each additional hour of average daily stimulation.

What type of clinical data has been published on the Pulsed Electromagnetic Field technology to demonstrate a dose response?

In a follow-up dose response study, treatment with the Bone Healing System resulted in significantly earlier healing when used for >9 hours / day.⁵



The data demonstrates a correlation between the average daily dose of PEMF and the reduction in time to heal for nonunion fractures. Patients that treated **>9 hours/day** exhibited a significantly earlier healing time, **76 days earlier**, than patients that treated for ≤3 hours / day.⁵

Overall Clinical and Radiographic Success Rate⁵⁺

90%

76 Days
Earlier Healing

Patients using the PEMF device for more than 9 hours per day achieved successful fracture repair an average of 76 days earlier than patients who treated for an average of 3 hours or less per day.⁵ The overall reported success rate for patients treated with the Bone Healing System was as high as 89.6%.⁵

What human clinical outcomes are there to support the use of the Bone Healing System?

High clinical success rates were achieved for some of the most difficult to treat locations.

Scaphoid Nonunion Success Rates As High As

92%

A follow-up study in upper extremities demonstrated clinical healing outcomes as high as 92%⁶⁺

Fifth Metatarsal Nonunion Success Rates As High As

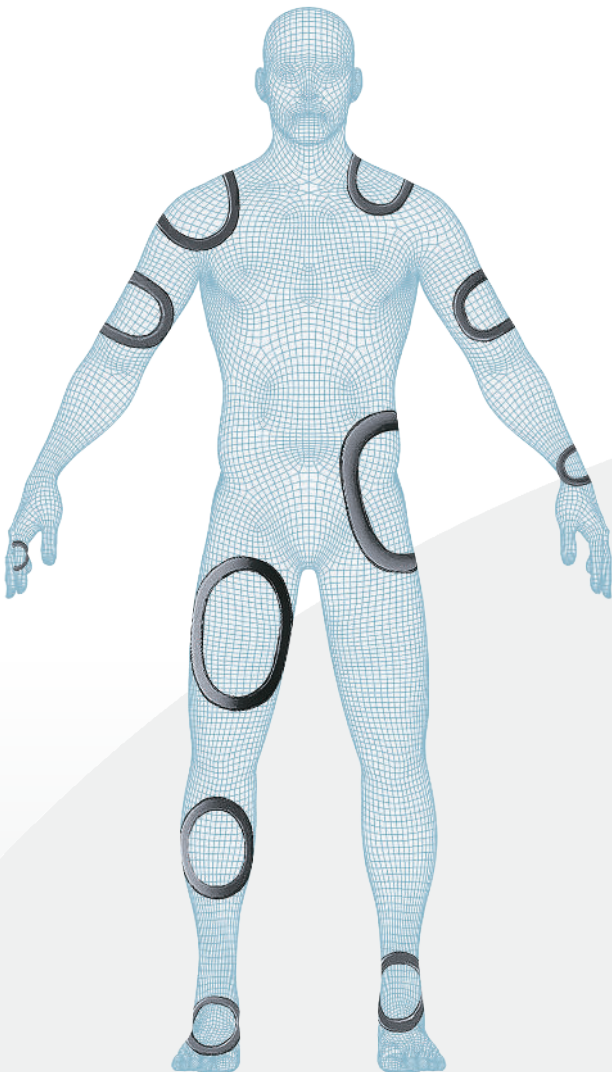
100%

A clinical study focused on fifth metatarsal nonunions demonstrated clinical healing outcomes as high as 100%⁷⁺

Tibia Nonunion Success Rate

87%

Another clinical study in lower extremities demonstrated clinical healing outcomes as high as 87%⁸⁺



What is the Bone Healing System?

The Biomet® EBI® Bone Healing System is an FDA-cleared, non-invasive bone growth stimulation device designed as an adjunctive therapy to aid in the healing of nonunion fractures, failed fusions, and congenital pseudarthrosis.

Features and Benefits

- The only bone growth stimulator with three distinct indications: providing surgeons options to treat various conditions with one clinically proven, safe and effective nonsurgical device.
- The small, lightweight, easy-to-use nonsurgical device empowers patients to treat compliantly on the go while improving their healing outcomes.
- The flexible, hand-crafted, therapeutic treatment coil options in 12 different shapes and sizes provide complete, 360-degree coverage around the treatment area.
- The therapeutic treatment coils may be comfortably and discreetly worn over clothing, bracing, or a cast.
- The Bone Healing System is backed by statistically significant pre-clinical, scientific research and clinical evidence which demonstrated improved clinical outcomes.

Specifications

- Technology: Pulsed Electromagnetic Field (PEMF)
- Signal: 15Hz (20 pulses per burst, 200µs)
- Delivery Method: Flexible treatment coils
- Device Weight: 6.70 oz.
- Original FDA Approval Date: 1979



The largest portfolio of clinically proven bone growth stimulation solutions.

EBI, LLC

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Legal Manufacturer

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References

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+ The original PEMF clinical study under the supervision of C.A.L. Bassett, M.D., Sc.D. which led to PMA approval in 1979 yielded an overall functional union success rate of 76%.

Complete prescribing information including full indications, contraindications, warnings and precautions associated with the use of these devices may be found online at ebibonestimulador.com or by calling 800-526-2579. The Bone Healing System is indicated for the treatment of fracture nonunions, failed fusions, and congenital pseudarthrosis in the appendicular system. Contraindicated for nonunion fractures in which a synovial pseudarthrosis exists. Electromagnetic PEMF stimulation is contraindicated for use by patients with implantable pacemakers or defibrillators. The Bone Healing System is not MR safe. Federal Law (U.S.A.) restricts this device to sale by or on the order of a physician. Rx Only. Single Patient Use Only. Do Not Reuse. This material is intended for health care professionals. Distribution to any other recipient is prohibited. All content herein is protected by copyright, trademarks and other intellectual property rights, as applicable, owned by or licensed to EBI or its affiliates unless otherwise indicated, and must not be redistributed, duplicated or disclosed, in whole or in part, without the express written consent of EBI. EB00235 REV A 06/26. ©2026 EBI, LLC. All rights reserved.



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