



**Healthcare
Professionals**



Biomet® OrthoPak®
Non-invasive Bone Growth
Stimulator System

 Powered by Capacitive
Coupling Technology



How does the OrthoPak® stimulator work?

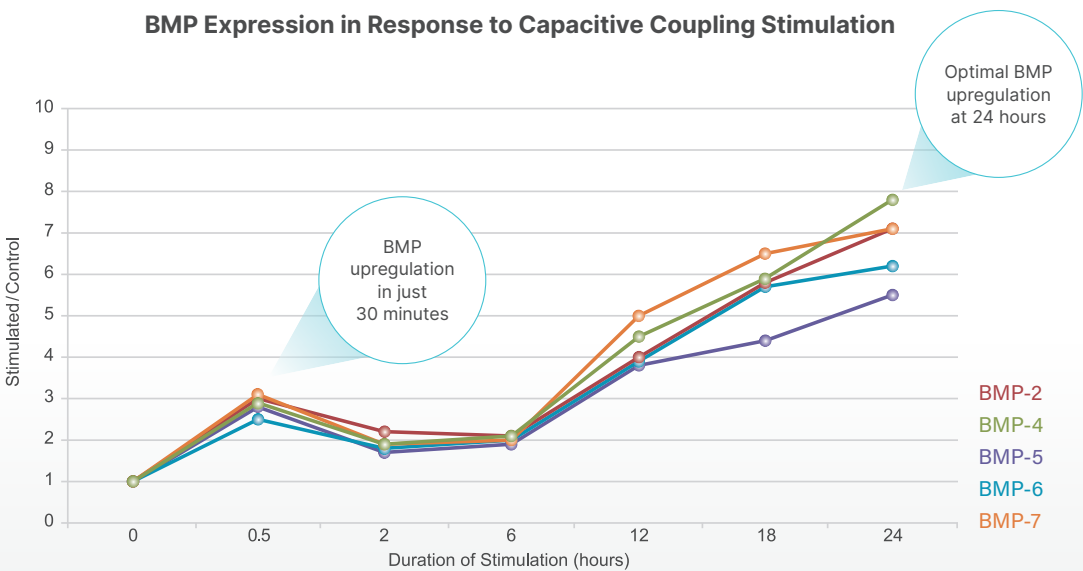
The OrthoPak® stimulator is the original, first-in-class, nonsurgical bone growth stimulation device that utilizes Capacitive Coupled (CC) electrical stimulation technology to improve fracture nonunion outcomes.

The Soft-Touch® hydrogel electrodes are placed on each side of the treatment site; 180 degrees apart from one another. The OrthoPak® device sends low-level electrical impulses to the site through a pair of electrodes creating a favorable environment for bone regeneration.



What type of pre-clinical data has been published on the Capacitive Coupling technology?

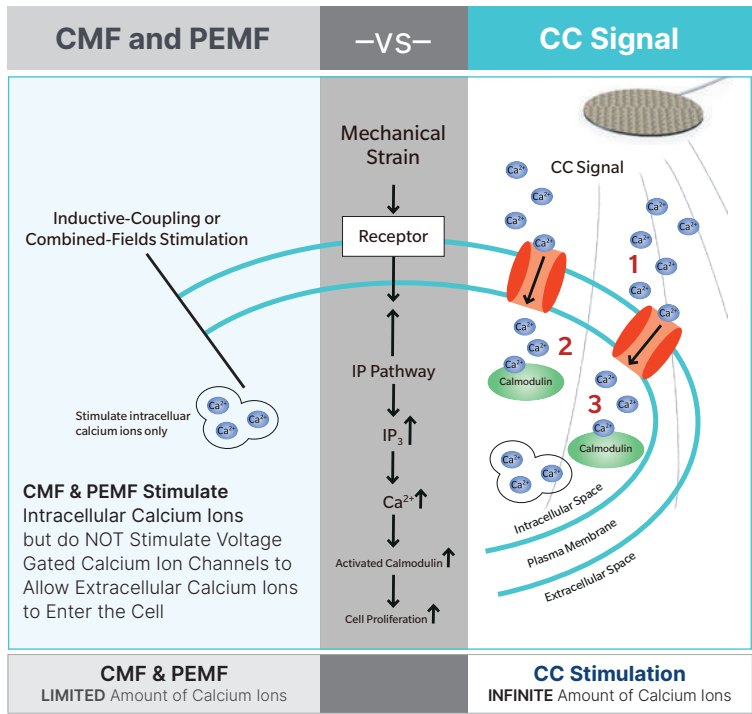
In an *in vitro* study, the upregulation of multiple Bone Morphogenetic Proteins (BMPs) occurred in as little as 30 minutes of exposure with optimal upregulation at 24 hours of exposure.^{1*}



While the greatest expression of osteogenic BMPs was observed after 24 hours of CC stimulation, **two to three times more upregulation was observed after just 30 minutes of CC stimulation** and continued to increase in a dose dependent manner.^{1*}

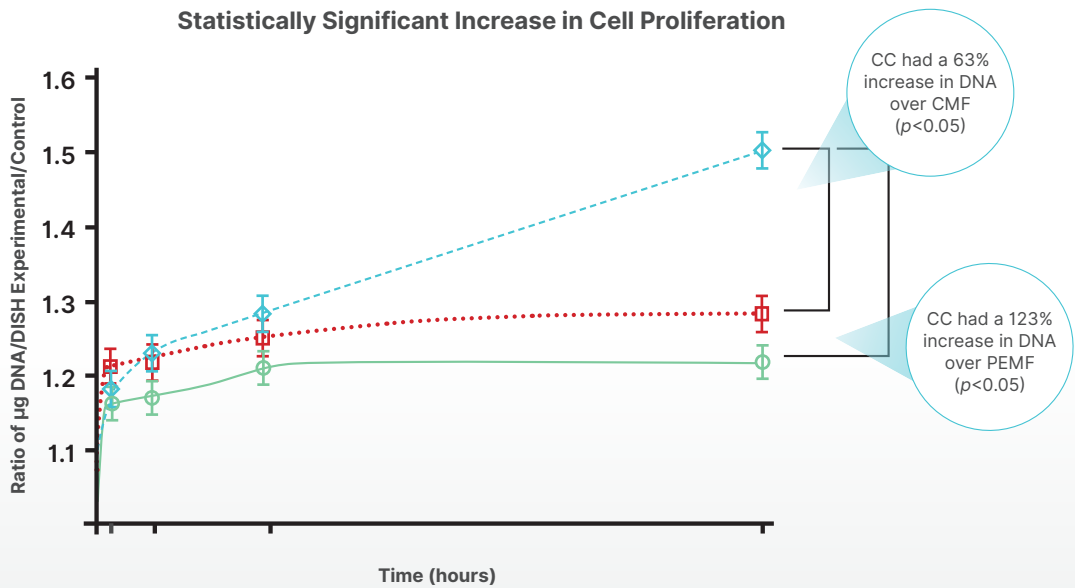
How is Capacitive Coupling (CC) different than other electrical stimulation technologies?

Another pre-clinical study demonstrated the difference between electrical stimulation technologies and how they work at a molecular level.



Capacitive Coupling technology stimulates an **infinite amount of calcium ions** by stimulating both intracellular and extracellular stores of calcium which leads to **increased cell proliferation and ultimately more bone growth.**^{2*}

Statistically Significant Increase in Cell Proliferation



Capacitive Coupling (CC) Combined Fields = Combined Magnetic Fields (CMF) Inductive Coupling = Pulsed Electromagnetic Fields (PEMF)

What human clinical outcomes are there to support the use of the OrthoPak® stimulator?

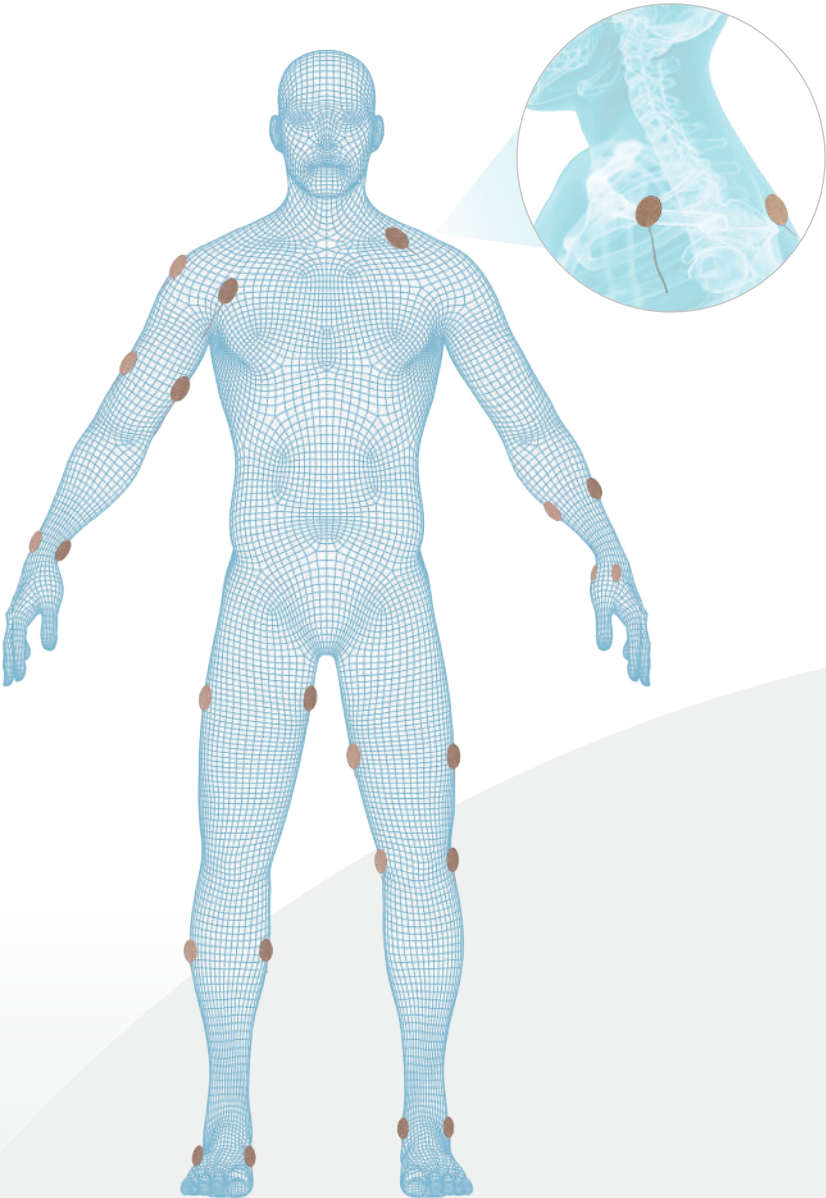
The OrthoPak® stimulator is supported by statistically significant level 1 clinical results.

Success Rates as high as

77%³

Statistically Significant Improvement in Healing Outcomes

60% Improvement⁴



What is the OrthoPak® stimulator?

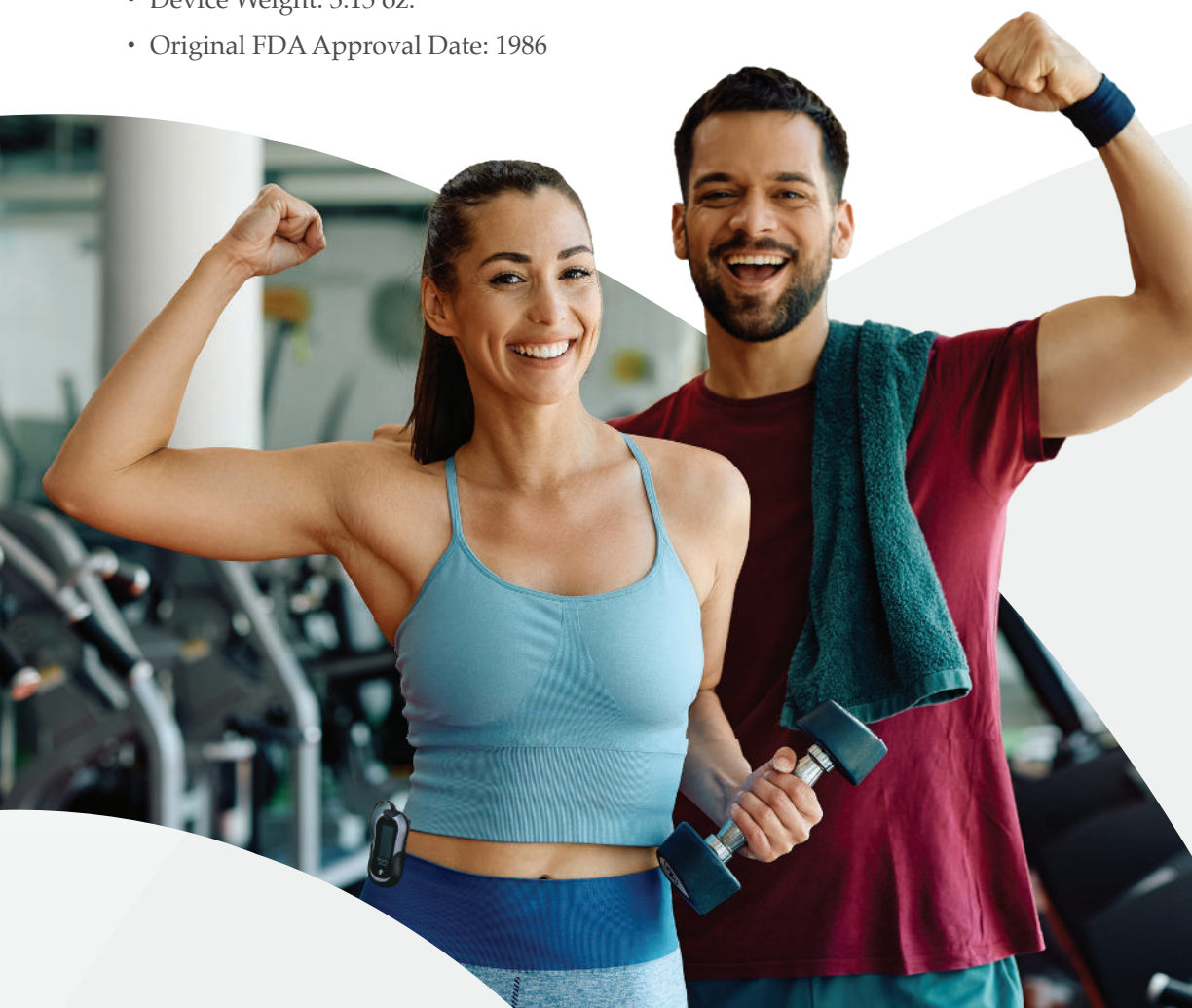
The Biomet® OrthoPak® Non-invasive Bone Growth Stimulator is an FDA-cleared, non-invasive bone growth stimulation device designed as an adjunctive therapy to aid in the healing of established nonunions.

Features and Benefits

- The small, non-invasive, intuitive device encourages patients to treat compliantly on the go while improving their healing outcomes.
- The lightweight, flexible, Soft-Touch® electrodes weigh less than an ounce, minimizing unwanted weight around the treatment site.
- The flexible placement of the Soft-Touch® electrodes optimizes precise stimulation, penetrating evenly across the targeted treatment area.
- The Soft-Touch® electrodes may be comfortably and discreetly worn under clothing or a brace.
- The OrthoPak® stimulator is backed by statistically significant pre-clinical, scientific research and clinical evidence which demonstrated improved clinical outcomes.

Specifications

- Technology: Capacitive Coupling (CC)
- Signal: 60kHz sinusoidal wave
- Delivery Method: Soft-Touch® electrodes
- Device Weight: 3.15 oz.
- Original FDA Approval Date: 1986



The largest portfolio of clinically proven bone growth stimulation solutions.

EBI, LLC

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Legal Manufacturer

EBI Patient Care, Inc.
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References

1. Wang Z, Clark CC, Brighton CT. Up-regulation of bone morphogenetic proteins in cultured murine bone cells with use of specific electric fields. J Bone Joint Surg Am. 2006;88(5):1053-1065.
2. Brighton CT, Wang W, Seldes R, Zhang G, Pollack SR. Signal transduction in electrically stimulated bone cells. J Bone Joint Surg Am. 2001;83-A(10):1514-1523.
3. Brighton CT, Pollack SR. Treatment of recalcitrant non-union with a capacitively coupled electrical field. A preliminary report. J Bone Joint Surg Am. 1985;67(4):577-585.
4. Scott, G. and King JB. A prospective double-blind trial of electrical capacitive coupling in the treatment of non-union of long bones. J Bone Joint Surg Am 1994; 76-A(6):820-26. The original PMA approval was based upon a clinical study efficacy of 72.5%.

*Although not indicative of human clinical results, outcomes from pre-clinical research have been implicated in various models of bone repair.

Complete prescribing information including full indications, contraindications, warnings and precautions associated with the use of these devices may be found online at ebibonestimulator.com or by calling 800-526-2579. The OrthoPak® is indicated for the treatment of an established nonunion acquired secondary to trauma, excluding vertebrae and all flat bones, where the width of the nonunion defect is less than one-half the width of the bone to be treated. Contraindicated if the individual has synovial pseudarthrosis. 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. EB00209 REV A 06/26. ©2026 EBI, LLC. All rights reserved.



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