

# Innovation that Stands the Test of Time

## SpF<sup>®</sup> Stimulators

### The SpF<sup>®</sup> Implantable Spine Fusion Stimulator

#### A Proven Treatment for Posterolateral Lumbar Spine Fusions

#### PROVEN CLINICAL HISTORY

- Over 100,000 implanted to date
- 50% increase in fusion rates over autograft alone<sup>1</sup>
- Significantly improves fusion success rates particularly in patients with specific risk factors<sup>1, 2, 3, 4</sup>

#### PROVEN TECHNOLOGY

- DC stimulation enhances the expression of several different osteoinductive growth factors, including BMP-2, BMP-6, and BMP-7 in preclinical investigations<sup>5, \*</sup>

#### ECONOMICAL

- Cost-effective, particularly in multi-level fusions
- CPT and ICD-9 Codes

Providing a constant dose of electrical stimulation for approximately 6 months<sup>6</sup>

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**BIOMET<sup>®</sup>**  
SPINE  
One Surgeon. One Patient.<sup>®</sup>

<sup>1</sup> Kane, W.J. Direct current electrical bone growth stimulation for spinal fusion. Spine (Phila Pa 1976), 1988.13(3): p. 363-5.

<sup>2</sup> Rogozinski, A. and Rogozinski, C. Efficacy of implanted bone growth stimulation in instrumented lumbosacral spinal fusion. Spine (Phila Pa 1976), 1996. 21(21): p. 2479-83.

<sup>3</sup> Kucharzyk, D.W. A controlled prospective outcome study of implantable electrical stimulation with spinal instrumentation in a high-risk spinal fusion population. Spine (Phila Pa 1976), 1999. 24(5): p. 465-8;discussion 469.

<sup>4</sup> Source: SpF<sup>®</sup> Implantable Spinal Fusion Stimulator Technical Monograph, BSP196276L 05/10.

<sup>5</sup> Fredericks, D.C., Smucker, J., Petersen, E.B., Bobst, J.A., Gan, J.C., Simon, B.J., and Glazer, P. Effects of direct current electrical stimulation on gene expression of osteopromotive factors in a posterolateral spinal fusion model. Spine (Phila Pa 1976), 2007. 32(2): p. 174-81.

<sup>6</sup> P850035/S020/S022/S031/S033 Approved FDA Trade Names: SpF<sup>®</sup> PLUS-Mini (60  $\mu$ A/W), SpF<sup>®</sup> PLUS-Mini (60  $\mu$ A/M) and SpF<sup>®</sup> XL IIb Implantable Spinal Fusion Stimulator. Certain models of the SpF<sup>®</sup> Implantable Spinal Fusion Stimulator have approved trade names preceded with "EBI" designating the former sponsor and/or applicant.

\* *In vitro* cellular and pre-clinical studies may not be indicative of human clinical outcomes.