Lapidus Procedure
Featuring BME ELITE®
Implant 90-90 Construct

ENGINEERED TO PROVIDE CONTINUOUS, ACTIVE COMPRESSION THROUGHOUT THE HEALING PROCESS

THE UNION OF COMPRESSION & STABILITY
GREATER COMPRESSION IN THE LAPIDUS PROCEDURE*

*Designed to reduce the risk of non-unions & plantar gapping*4*

BENEFITS OF THE BME ELITE IMPLANT 90-90 CONSTRUCT IN THE LAPIDUS PROCEDURE

- Significantly higher and more homogenous dynamic compression than locked plating or crossing screws*4*
- Greater compression recovery, which may minimize plantar gapping*4*
- Ease of implant insertion, which may allow for reduction in OR time*5,6

*Bench test results may not be indicative of clinical performance.*
GREATER COMPRESSION RECOVERY MINIMIZES PLANTAR GAPPING

Compression extends plantarly through the legs of the CCI, achieving significantly higher contact area after repetitive loading compared to a 4-hole compression plate and to 2 crossing screws.4*

*Bench test results may not be indicative of clinical performance.
MORE HOMOGENOUS COMPRESSION ACROSS THE FUSION SITE

Lapidus constructs using the BME ELITE Implants provided significantly more compression than a locking titanium midfoot compression plate with and without a 4.0 mm lag screw and 2 crossing 4.0 mm lag screws.\(^4\)

Demonstrated Superior Compression Even After 100 Stress Cycles\(^4\)

**Compressive Force (N)\(^4\)**

<table>
<thead>
<tr>
<th></th>
<th>Pre-cycle</th>
<th>Post-cycle</th>
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</thead>
<tbody>
<tr>
<td>2-Leg BME ELITE &amp; 4-Leg BME ELITE Perpendicular</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plate With Screw</td>
<td>150</td>
<td>100</td>
</tr>
<tr>
<td>Crossing Screws</td>
<td>100</td>
<td>50</td>
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</tbody>
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**HIGHER CONTINUOUS COMpressive FORCE**

The BME ELITE Implant 90-90 construct provides at least 2x greater compressive force than locking titanium midfoot compression plate with a 4.0 mm lag screw and two 4.0 mm crossing screws.\(^4\)

*Bench test results may not be indicative of clinical performance.*
EASE OF IMPLANT PLACEMENT

TECHNIQUE OVERVIEW

Technique

Place 2 BME ELITE Implants with the first implant placed in the dorsal position and the second placed in the dorsomedial or medial position.

1. Use the 4-legged raised implant bridge to align the drill guide for the second implant. A K-wire can be placed through the drill guide under fluoroscopy to confirm that the legs of the second implant will not interfere with the original implant.

2. Aim the medial implant placement plantarly away from the intercuneiform joint as needed.

Additionally Available – Compression/Distraction Device

Utilizing the Compression/Distraction Device to prep the joint, place the first pin proximally and medially in the cuneiform and the second pin midshaft and medially in the first metatarsal. Avoid placing pins through desired implant site.

Available Constructs

<table>
<thead>
<tr>
<th>Dorsal-4 Leg*</th>
<th>Medial-2 Leg*</th>
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</thead>
<tbody>
<tr>
<td>25 x 20 ELITE S</td>
<td>18 x 18 ELITE S</td>
</tr>
<tr>
<td>30 x 20 ELITE Y†</td>
<td>15 x 15 ELITE S</td>
</tr>
</tbody>
</table>

*Sizes in mm.
†May require additional bone surface preparation.
THE UNION OF COMPRESSION AND STABILITY IN LAPIDUS

JOINT PREPARATION SET

Adequate joint preparation is a requirement for fusion success. DePuy Synthes offers a variety of chisel shapes and a cartilage remover to facilitate proper joint preparation.

COMPRESSION/DISTRACTION DEVICE

The Compression/Distraction Device provides an adjustable and minimally invasive approach for manipulation of the fusion site to achieve precise indirect reduction and compression.7

VIVIGEN® AND VIVIGEN FORMABLE® CELLULAR BONE MATRIX†

ViviGen® Cellular Bone Matrix provides an alternative to autograft bone to pack the fusion site. It contains viable, lineage committed bone cells within a corticocancellous bone matrix and demineralized bone, delivering all of the properties necessary for bone formation.8

†ViviGen and ViviGen Formable are registered trademarks of LifeNet Health.


Please also refer to the Instructions For Use, surgical technique, or other labeling associated with the devices identified in this brochure for additional information. CAUTION: Federal law restricts these devices to sale by or on the order of a physician. Complete information regarding indications, contraindications, warnings, care, and caution can be found in the Instructions For Use.

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Synthes USA, LLC
1101 Synthes Avenue
Monument, CO 80132
www.jnjmedicaldevices.com
BioMedical Enterprises, Inc.
14785 Omicron Dr., Suite 205
San Antonio, TX 78245
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<table>
<thead>
<tr>
<th>BME ELITE IMPLANT CONSTRUCT</th>
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<tbody>
<tr>
<td><strong>Implant Kit</strong></td>
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<tr>
<td><strong>Bridge</strong></td>
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</tr>
<tr>
<td>Dorsal-4 Leg</td>
<td>25</td>
</tr>
<tr>
<td>Medial-2 Leg</td>
<td>18</td>
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<tr>
<td>EL-2520S4</td>
<td>EL-302007Y4</td>
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<tr>
<td>EL-1818S2</td>
<td>EL-1515S2</td>
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Utilizes the DK-300 drill kit and EL-DTS template

Utilizes the DK-300 drill kit and EL-DTY template

PROCEDURAL ENHANCEMENTS