Surgical Technique

Jones Screw™

Surgical Technique | TriMed Fifth Metatarsal Fixation System™
Inserting K-wire

- Make standard lateral incision 1-3cm parallel to the plantar border of the foot extending proximally at the level of the fifth metatarsal tuberosity. Bluntly dissect down to the base. Avoid the sural nerve.
- Place K-wire Guide sleeve “high and inside” to the midline of the fifth metatarsal base on lateral view. Select appropriately sized K-wire. (see screw table)
- Advance K-wire into medullary canal of the 5th metatarsal. Stop proximal to the diaphyseal curve.

Measuring Depth and Drilling

- Measure K-wire depth with Wire Gauge and place Tissue Protector sleeve over K-wire.
- Select appropriately sized cannulated drill bit based on pre-op intramedullary canal measurement and place over K-wire. Drill to measured depth.

Tapping for Screw

- Select the appropriate tap and tap for the screw.
Inserting Screw

- Remove K-wire. Insert screw with corresponding screwdriver.
- Check final screw placement and fracture reduction on C-arm.
- Irrigate and close in layers.

### Screw Table

<table>
<thead>
<tr>
<th>K-wire</th>
<th>4.5mm</th>
<th>5.5mm</th>
<th>6.5mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.6mm</td>
<td>2.0mm</td>
<td>2.0mm</td>
<td></td>
</tr>
<tr>
<td>Drill Bits</td>
<td>3.2mm Cannulated</td>
<td>4.0mm Cannulated</td>
<td>4.8mm Cannulated</td>
</tr>
<tr>
<td>Taps</td>
<td>4.5mm Cannulated</td>
<td>5.5mm Cannulated</td>
<td>6.5mm Cannulated</td>
</tr>
<tr>
<td>Screwdriver</td>
<td>2.5mm Hex</td>
<td>3.0mm Hex</td>
<td>3.5mm Hex</td>
</tr>
</tbody>
</table>
All implants made from surgical grade stainless steel

**Jones Screw**
JHEX.45xx  
JHEX.55xx  
JHEX.65xx  
_xx_ = 40mm to 60mm (5mm increments)

**Jones Guide**
GUIDE-JONES

**Wire Gauge**
WIREGAUGE-2.5/230

**Ratchet Handle**
RATCH-HNDL

**XRAY**

Pre-Op  
Post-Op at 2 weeks  
Final Post-Op

X-Rays courtesy of Harpreet S. Basran, MD