Nitinol Staples

Surgical Technique | TriMed Nitinol Staple System
**Preparation and Provisional Fixation**

- Provisionally fix the prepared fusion, fracture or osteotomy site with K-wires.

**Note:** For optimal seating of the staple ensure the approximated bone surfaces are even.

**Drill and Measure**

- Adjust Drill Guide to desired implant width, and ensure drill sleeves are flush with the bone.
  - Staple sizes 08 - 12mm: use 2.0mm (yellow) drill
  - Staple sizes 15 - 25mm: use 2.3mm (red) drill
- Drill first hole and insert drop-in pin through the sleeve.
- Drill second hole and remove drill guide and pin.
- Measure the length for each staple leg with depth gauge.

**Distract and Insert**

- Place staple onto the Distraction Clamp.
  - Staple sizes 08 - 15mm: use Small Distraction Clamp
  - Staple sizes 18 - 25mm: use Large Distraction Clamp
- Tighten thumb nut until staple legs are parallel. Avoid over tightening.
- Align legs with the pre-drilled holes and insert until the lip of the Distraction Clamp contacts the bone surface.
- Loosen thumb nut and remove Distraction Clamp.
Impact

- Using the Mallet and Impactor, impact the staple until it is flush with bone surface.

Final Fixation

- If needed, repeat steps above for 90/90 fixation with an additional staple.

Indications, contraindications, warnings and precautions related to TriMed Nitinol Staples reference IFU, LC-73-0004-011.
All implants made from surgical grade Nitinol

Nitinol Staples

Symmetrical
ES-XX x XX

Asymmetrical
ES-XX x XX x XX

<table>
<thead>
<tr>
<th>Width (mm)</th>
<th>08</th>
<th>10</th>
<th>12</th>
<th>15</th>
<th>18</th>
<th>20</th>
<th>25</th>
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<tr>
<td>Leg Length (mm)</td>
<td>08/08</td>
<td>10/10</td>
<td>13/13</td>
<td>13/15</td>
<td>10/10</td>
<td>13/15</td>
<td>15/17</td>
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<tr>
<td>Drill</td>
<td>2.0mm</td>
<td>2.3mm</td>
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<tr>
<td>Distractor</td>
<td>DISTRS-TSS</td>
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Small Distraction Clamp (for staple widths 8-15mm)
DISTRS-TSS

Large Distraction Clamp (for staple widths 18-25mm)
DISTRL-TSS

Drill Guide
GDSTPL-2.0

Impactor
IMPCT-STPL


The technique presented is one suggested surgical technique. The decision to use a specific implant and the surgical technique must be based on sound medical judgment by the surgeon that takes into consideration factors such as the circumstances and configuration of the injury.

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