Extends DHS® Plate Construct to Help Stabilize Greater Trochanter

Trochanter Stabilization Plate for DHS® Implants

Surgical Technique
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**MR Information**

The Trochanter Stabilization Plate for DHS System has not been evaluated for safety and compatibility in the MR environment. It has not been tested for heating, migration or image artifact in the MR environment. The safety of the Trochanter Stabilization Plate for DHS System in the MR environment is unknown. Scanning a patient who has this device may result in patient injury.
Trochanter Stabilization Plate for DHS Implants.
Extends DHS Plate construct to help stabilize greater trochanter.

The Trochanter Stabilization Plates extend the DHS® Plate construct to help stabilize the greater trochanter and facilitate insertion of an antirotation screw into the femoral head.

The combination of the DHS Implants and the Trochanter Stabilization Plate prevents lateral displacement of greater trochanter fragments during impaction of the fracture zone. This helps prevent medialization of the shaft relative to the head-neck fragment.

Indications
Trochanter Stabilization Plates are used with Synthes DHS Plates (four holes or longer) for the following stable and unstable fractures of the proximal femur:
- Intertrochanteric
- Subtrochanteric
- Pertrochanteric
- Basilar neck

Preoperative
Postoperative
Trochanter Stabilization Plate for DHS® Implants.
Extends DHS Plate construct to help stabilize greater trochanter.

- Spoon extension minimizes lateral displacement of greater trochanteric fracture fragment(s)
- Holes for tension band fixation using K-wires, cable, or cerclage wire (2.0 mm or less), or for reattachment of the gluteus medius with sutures
- Holes for fixation of greater trochanteric fracture fragments with 4.0 mm Cancellous Bone Screws
- Large screw hole for parallel placement of an antirotation screw in the femoral head
- Oval hole allows the DHS® Lag Screw to glide through the DHS Plate barrel unimpaired
- Recessed screw holes for fixation of the Trochanter Stabilization Plate/DHS Plate construct to the femoral shaft, using standard 4.5 mm Cortex Screws
- Round hole allows secure placement of the DHS Plate before the addition of the Trochanter Stabilization Plate
- Concave U-shape snaps over the DePuy Synthes DHS Plate
- Lengths of 138 mm and 148 mm
- The DHS Parallel Drill Guide (338.750) allows precise insertion of a screw superior and parallel to the DHS Lag Screw at a distance of 12 mm, 17 mm, or 22 mm.
Secure DHS Plate

Note: To insert a Trochanter Stabilization Plate and an antirotation screw parallel and superior to the DHS Lag Screw, drill the hole for the lag screw more inferior than normal. This allows room for placement of the antirotation screw superior to the DHS Lag Screw.

Secure the DHS Plate to the femoral shaft with one screw only, through the second-most-proximal DCP® Hole.
2

Contour spoon-shaped end

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Description</th>
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<tbody>
<tr>
<td>329.02* Bending Iron, for 4.5 mm plates</td>
<td></td>
</tr>
<tr>
<td>329.30* Plate-Bending Press</td>
<td></td>
</tr>
<tr>
<td>391.85 Flat-Nosed Parallel Pliers</td>
<td></td>
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</tbody>
</table>

Contour the spoon-shaped end of the Trochanter Stabilization Plate to fit the bone, if necessary. The flat-nosed parallel pliers, and the bending iron for 4.5 mm plates, or the plate-bending press may be used to contour the plate.

* Also available.
3

**Position plate**

Position the Trochanter Stabilization Plate over the DHS Plate. Ensure that the trochanter stabilization plate is securely seated and that the oval hole allows clearance for the lag screw.

4

**Secure plate**

**Instruments**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>310.31</td>
<td>3.2 mm Drill Bit</td>
</tr>
<tr>
<td>312.46</td>
<td>4.5 mm/3.2 mm Double Drill Sleeve</td>
</tr>
</tbody>
</table>

Secure the Trochanter Stabilization Plate/DHS Plate construct in position through the remaining screw holes. Drill using the 3.2 mm drill bit with the 4.5 mm/3.2 mm double drill sleeve. Measure the depth of the screw holes and insert the screws according to standard technique.
5

Place DHS/DCS® Compression Screw (optional)

If desired, place a DHS/DCS® Compression Screw using standard DHS Dynamic Hip System technique.
Optional fixation methods through the spoon-shaped end of the Trochanter Stabilization Plate include:
- 4.0 mm cancellous bone screws
- Cerclage wire
- Orthopaedic cable
- Suture (not shown)

Individual trochanteric fracture fragments may be fixed using 4.0 mm cancellous bone screws through the large holes. A tension band may be constructed using cerclage wire or cable through the small holes. The gluteus medius may be reattached by passing sutures through the small holes.
Optional insertion of an antirotation screw using the DHS Parallel Drill Guide

An antirotation screw may be inserted superior and parallel to the DHS Lag Screw. Use one of the following:
- 6.5 mm cancellous bone screw
- 7.0 mm cannulated screw
- 7.3 mm cannulated screw

1

Remove DHS/DCS Compression Screw, if necessary

2

Reinsert 2.5 mm guide wire through DHS Lag Screw

3

Slide DHS Parallel Drill Guide

<table>
<thead>
<tr>
<th>Instruments</th>
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<tbody>
<tr>
<td>338.740</td>
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<td>338.750</td>
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Slide the DHS Parallel Drill Guide over the guide wire through the hole marked “0.” Insert the 6.0 mm/4.5 mm drill sleeve into the guide hole marked “12.”
4

Insert appropriate sleeve as indicated below

<table>
<thead>
<tr>
<th>Antirotation Screw Type</th>
<th>Instrument</th>
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<tbody>
<tr>
<td>7.0 mm Cannulated Screw</td>
<td>4.5 mm/2.0 mm Insert Wire Sleeve (388.720*)</td>
</tr>
<tr>
<td>6.5 mm Cannulated Bone Screw</td>
<td>4.5 mm/3.2 mm Insert Drill Sleeve (388.730)</td>
</tr>
<tr>
<td>7.3 mm Cannulated Screw</td>
<td>4.5 mm/2.8 mm Insert Wire Sleeve (388.731*)</td>
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</tbody>
</table>

5

Measure and place

The antirotation screw should be measured and placed according to the appropriate technique.

*Also available.
Implant Removal

Remove the implants in the following sequence:

1.
All fixation elements (screws, wire, cable, suture) attached to the spoon-shaped end of the trochanter stabilization plate (if used)

2.
Antirotation screw (if used)

3.
Compression screw (if used)

4.
DHS Trochanter Stabilization Plate

5.
DHS Plate

6.
DHS Lag Screw

Please refer to the DHS/DCS Technique Guide and/or the One-Step DHS/DCS Technique Chart for additional information.
Trochanter Stabilization Plate Instrument and Implant Set (105.385)

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**Graphic Case**

690.328  Trochanter Stabilization Plate Instrument and Implant Set

**Instruments**

338.730  4.5 mm/3.2 mm Insert Drill Sleeve
338.740  6.0 mm/4.5 mm Drill Sleeve
338.750  DHS Parallel Drill Guide

**Implants**

Trochanter Stabilization Plate, 2 ea.

281.869◊  138 mm
281.870◊  148 mm

◊ Available nonsterile and sterile-packed. Add “S” to product number for sterile product.

For detailed cleaning and sterilization instructions, please refer to [www.synthes.com/cleaning-sterilization](http://www.synthes.com/cleaning-sterilization) or to the below listed inserts which will be included in the shipping container:

— Processing DePuy Synthes Reusable Medical Devices—Instruments, Instrument Trays and Graphic Cases—DJ1305
— Processing Non-sterile DePuy Synthes Implants—DJ1304
Also Available

329.02   Bending Iron, for 4.5 mm plates
329.30   Plate-Bending Press
338.720  4.5 mm/2.0 mm Insert Wire Sleeve
338.731  4.5 mm/2.8 mm Insert Wire Sleeve
391.85   Flat Nosed Parallel Pliers
690.344  DHS One-Step Implant Set Graphic Case
690.348  DHS/DCS One-Step Basic Set Graphic Case

Implantation of the Trochanter Stabilization Plate requires one instrument set and one implant set from the following:

105.831  DHS/DCS Basic Set, with self-tapping screws
105.833  DHS/DCS One-Step Basic Set, with self-tapping screws
105.837  DHS Basic Set, with self-tapping screws
105.35   DHS Universal Implant Set
105.352  DHS One-Step Implant Set
105.839  DHS One-Step Basic Set, with self-tapping screws

One or more of the following may be required for optional additional fixation:

105.180  6.5 mm Cannulated Screw Instrument and Implant Set
105.07   7.0 mm Cannulated Screw Instrument and Implant Set
105.185  7.3 mm Cannulated Screw Instrument and Implant Set
105.190  6.5 mm/7.3 mm Combined Cannulated Screw Instrument and Implant Set
105.924  Orthopaedic Cable System Instrument Set
105.118  Basic Screw Set, with self-tapping screws
105.408  Small Fragment Instrument and Implant Set, with self-tapping screws
105.445  Small Fragment Instrument and Implant Set, with self-tapping screws–LC-DCP
105.92   Wire Instrument and Implant Set
298.801.015 1.7 mm Cable with Crimp, 750 mm, sterile

Recommended power equipment

105.954  Small Battery Drive
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CAUTION: Federal Law restricts these devices to sale by or on the order of a physician. Some devices listed in this surgical technique may not have been licensed in accordance with Canadian law and may not be for sale in Canada. Please contact your sales consultant for items approved for sale in Canada.

Not all products may currently be available in all markets.