Surgical technique completed
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Nota Bene

The technique description herein is made available to the healthcare professional to illustrate the authors' suggested treatment for the uncomplicated procedure. In the final analysis, the preferred treatment is that which addresses the needs of the patient.
**Stem Specifications**

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*For use with Smith & Nephew 12/14 femoral heads only.*
Preparation of the Acetabulum

-3 and +16 CoCr femoral heads available in 28mm and 32mm only.

* Denotes skirted head

NOTE: For illustration purposes only. Surgical Templates are available by contacting your Smith & Nephew Representative or Customer Service.
1. **Femoral Osteotomy**

   The level of neck resection should be based on preoperative templating. Place the template over the X-ray of the hip. After determining the appropriate size stem, determine the level of femoral neck resection based on the lesser trochanter as a landmark.

   A graduation scale can be found on the medial aspect of the stem on the template. This scale corresponds to the marks on the osteotomy guide. Make note of how many graduations above the lesser trochanter the osteotomy will take place, as determined by the middle depth mark on the medial aspect of the stem (also identified as the zero mark on the graduation scale).

   In the OR, place the osteotomy guide on the femur by referencing the lesser trochanter at the same graduation mark as noted during templating. Osteotomize the neck (*Figures 1 and 2*).

2. **Prepare Acetabulum**

   If acetabular reconstruction is required, prepare the acetabulum using the technique for the intended acetabular component.
3. **Femoral Canal Preparation**

Open the medullary canal at the transected neck using the box chisel. Stay posterior and lateral in order to obtain a neutral stem position (Figure 3). Identify and open the femoral canal using the blunt medullary reamer (Figure 4).

The trochanteric reamer is available to help ensure a lateral start point and open the metaphysis (Figure 5).
4. Femoral Broaching

Assemble the broach to the broach handle by placing the broach post in the clamp. Use the thumb to lock the clamp onto the broach. A modular anteversion handle can be assembled to the broach handle to provide version control (Figure 6).

Start the broaching procedure along the mid-axis of the femur with the starter broach and progressively broach to the appropriate femoral stem size. Seat the final broach slightly below the level of the femoral neck resection to facilitate calcar reaming if desired (Figure 7).

The CPCS broach is designed to provide a minimum 2.0mm cement mantle per side, medially and laterally, and 1.5mm per side, anteriorly and posteriorly. Additional cement mantle thickness is achieved by pressurizing the cement into the cancellous bone. The broach is 10mm longer than the corresponding implant to accommodate the distal centralizer.

Disassemble the broach from the broach handle by placing two fingers (index and middle) in the rectangular slot. Apply pressure to the release bar by squeezing two fingers toward the thumb resting on the medial side of the broach handle (Figure 8).
5. Calcar Preparation (optional)

If the femoral neck resection is asymmetric, with the broach fully seated, remove the broach handle and ream the calcar. Plane the calcar until it is level with the broach.

6. Trialing

Remove the calcar reamer and place the matching standard or high offset trial neck (as determined by templating) onto the broach post. Select the trial femoral head of desired diameter and length. Reduce the hip to assess stability and to restore leg length. In some cases soft tissue tension may be improved by using the high offset trial neck instead of the standard offset trial neck.

The CPCS hip system was designed to allow the last broach seated in the femur to dictate the size implant to be used.

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*Denotes skirted heads.
7. Sizing the Femoral Canal

Attach the broach handle to the broach and remove the broach from the femoral canal.

Using femoral canal sounds, determine the canal diameter to select the appropriately sized distal centralizer and cement restrictor (Figure 9).

A distal centralizer, ensures neutral stem alignment, and, if necessary, allows for slight subsidence of the stem by preventing the stem from becoming end-bearing in the cement. Neutral stem alignment provides a minimum 2.0mm cement mantle per side, medially and laterally, and 1.5mm cement mantle per side, anteriorly and posteriorly. Additional cement mantle thickness can be achieved by cement pressurization and the ensuing cement interdigitation.

Centralizers in 2mm increments are available in sizes 8-18mm. Any size centralizer fits on any size stem.
8. Placing the BUCK Cement Restrictor

The proximal flange of the cement restrictor should always be larger than the distal canal diameter. Accurate cement restrictor depth placement is then determined by placing the CPCS stem (with attached centralizer) next to the inserter tool and adding 20mm to the length (see chart below).

Thread the cement restrictor onto the inserter using a clockwise motion. Insert the device to the level of the medullary canal that has been predetermined. Once this level is reached, disengage the restrictor from the inserter using a counterclockwise twisting motion. Remove the inserter from the medullary canal. If it is necessary to remove the restrictor prior to cement insertion, it can be reattached to the inserter rod and pulled out of the canal. The surgeon may adjust the restrictor as many times as required.

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9. Preparing The Femoral Canal

Irrigate the canal with saline solution and pulsatile lavage to remove all debris. Continue preparing the femur with the femoral canal brush to remove any remaining weak cancellous bone, blood clots, and marrow fats. Repeat lavaging as necessary to remove all remaining debris.

10. Drying The Femoral Canal

Insert the canal suction absorber into the femoral canal to dry the canal while mixing the cement.
11. Loading Cement

Load VERSABOND® bone cement into the VORTEX® vacuum mixer.

12. Mixing

Mix the cement according to manufacturer’s instructions. Turn handle clockwise to achieve optimal homogenous mixture.

13. Injecting Cement

Remove the femoral canal suction absorber and use pulsatile lavage and dry. The cement should be introduced promptly to minimize bleeding into the canal. Insert the nozzle of the cement gun to the top of the Buck cement restrictor and inject cement into the canal in retrograde fashion. Continue injecting cement until the canal is completely full and the distal tip of the nozzle is clear of the canal.
14. **Pressurizing Cement**

Break off the long nozzle and place the femoral pressurizer over the short nozzle. Apply the disposable femoral pressurizer into the mouth of the canal. This will occlude the canal and compress the cement. Maintain firm pressure until the cement is in a doughy state and can withstand displacement and will allow for proper cement interdigitation into trabecular bone. Withdraw the femoral pressurizer and remove any extruded cement around the periphery of the canal.
Stem Insertion

15. Stem Insertion

Using clean gloves, place the distal centralizer over the distal tip of the stem by carefully pushing the centralizer superiorly until snug.

Attach the CPCS stem driver handle to the stem driver. The handle can be attached in two positions, horizontal or vertical depending on surgeon preference (Figure 10). A button must to be pushed at the end of the handle to either engage or disengage the handle.

Insert the selected femoral stem into the canal by fitting the tip of the locking stem driver into the stem driving platform (Figure 11). The circular disc on the stem driver must be pulled superiorly to engage the tip of the stem driver to the stem driving platform.

While pushing the stem into the canal, place the thumb medial to the stem in order to pressurize the cement and ensure correct alignment (Figure 12). Advance the stem approximately 1cm per second to avoid air inclusions in the stem/cement interface. The stem should be inserted to the appropriate medial depth mark as determined during trial reduction and templating.

Trim away excess cement with Concise cement sculps. Carefully remove the stem driver by pulling the circular disc on the stem driver superiorly. Maintain steady pressure with the thumb on the neck taper until the cement is polymerized.
16. Final Trial Reduction

A final trial reduction may be performed at this time using trial femoral heads.

17. Femoral Head Assembly

Clean and dry the neck taper with a clean cloth. Place the prosthetic femoral head on the neck taper and firmly impact with a head impactor and a mallet.

NOTE: Care should be taken not to use Cobalt-Chromium heads on stainless steel stems. To distinguish the material, the stainless steel femoral heads have an indentation at their taper opening, while the stainless steel stems have an indentation in the middle of the taper.
**CPCS™**

**Primary Standard Offset Stems**
Forged Cobalt Chromium – ASTM F 799

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**Primary High Offset Stems**
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Stainless Steel – ASTM F 1586

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### CoCr 12/14 Femoral Heads
Cobalt Chromium – ASTM F 799

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### SST 12/14 Femoral Heads
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<tbody>
<tr>
<td>-3</td>
<td>7129-2803</td>
<td>7129-3203</td>
</tr>
<tr>
<td>+0</td>
<td>7129-2800</td>
<td>7129-3200</td>
</tr>
<tr>
<td>+4</td>
<td>7129-2804</td>
<td>7129-3204</td>
</tr>
<tr>
<td>+8</td>
<td>7129-2808</td>
<td>7129-3208</td>
</tr>
<tr>
<td>+12</td>
<td>7129-2812</td>
<td>7129-3212</td>
</tr>
<tr>
<td>+16</td>
<td>7129-2816</td>
<td>7129-3216</td>
</tr>
</tbody>
</table>

### CPCS Distal Centralizers

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>OD</th>
</tr>
</thead>
<tbody>
<tr>
<td>7131-2400</td>
<td>0mm</td>
</tr>
<tr>
<td>7131-2408</td>
<td>8mm</td>
</tr>
<tr>
<td>7131-2410</td>
<td>1mm</td>
</tr>
<tr>
<td>7131-2412</td>
<td>12mm</td>
</tr>
<tr>
<td>7131-2414</td>
<td>14mm</td>
</tr>
<tr>
<td>7131-2416</td>
<td>16mm</td>
</tr>
<tr>
<td>7131-2418</td>
<td>18mm</td>
</tr>
</tbody>
</table>
Trial 12/14 Taper Femoral Heads

<table>
<thead>
<tr>
<th>Neck</th>
<th>Color</th>
<th>Length Code</th>
<th>22mm</th>
<th>*26mm</th>
<th>*28mm</th>
<th>32mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>-3</td>
<td>Green</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>7135-2803</td>
<td>7135-3203</td>
</tr>
<tr>
<td>+0</td>
<td>Yellow</td>
<td>7135-2200</td>
<td>7135-2600</td>
<td>7135-2800</td>
<td>7135-3200</td>
<td></td>
</tr>
<tr>
<td>+4</td>
<td>Red</td>
<td>7135-2204</td>
<td>7135-2604</td>
<td>7135-2804</td>
<td>7135-3204</td>
<td></td>
</tr>
<tr>
<td>+8</td>
<td>White</td>
<td>7135-2208</td>
<td>7135-2608</td>
<td>7135-2808</td>
<td>7135-3208</td>
<td></td>
</tr>
<tr>
<td>+12</td>
<td>Blue</td>
<td>7135-2212</td>
<td>7135-2612</td>
<td>7135-2812</td>
<td>7135-3212</td>
<td></td>
</tr>
<tr>
<td>+16</td>
<td>Black</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>7135-2816</td>
<td>7135-3216</td>
</tr>
</tbody>
</table>

*Space allowed for 26 mm and 28 mm heads in instrument tray.

CPCS® Trial Necks

<table>
<thead>
<tr>
<th>Size</th>
<th>Cat. No.</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>7136-2700</td>
<td>7136-2703</td>
</tr>
<tr>
<td>1,2</td>
<td>7136-2701</td>
<td>7136-2704</td>
</tr>
<tr>
<td>3,4,5</td>
<td>7136-2702</td>
<td>7136-2705</td>
</tr>
</tbody>
</table>

Osteotomy Guide

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>7136-4000</td>
<td>Sizes 0–5</td>
</tr>
</tbody>
</table>

Broach Handle

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>7136-4007</td>
<td></td>
</tr>
</tbody>
</table>

Box Chisel

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>7136-4002</td>
<td>Small</td>
</tr>
</tbody>
</table>

Anteversion Handle

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>7136-4012</td>
<td></td>
</tr>
</tbody>
</table>

Trochanteric Reamer

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>7136-4015</td>
<td></td>
</tr>
</tbody>
</table>

Femoral Head Impactor

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>7136-4009</td>
<td></td>
</tr>
</tbody>
</table>

Blunt Medullary Reamer

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-9657</td>
<td></td>
</tr>
</tbody>
</table>

18
### Femoral Sounds

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>7136-3508</td>
<td>8-9mm</td>
</tr>
<tr>
<td>7136-3510</td>
<td>10-11mm</td>
</tr>
<tr>
<td>7136-3512</td>
<td>12-13mm</td>
</tr>
<tr>
<td>7136-3514</td>
<td>14-15mm</td>
</tr>
<tr>
<td>7136-3516</td>
<td>16-17mm</td>
</tr>
<tr>
<td>7136-3518</td>
<td>18-19mm</td>
</tr>
</tbody>
</table>

### Broaches/Trials

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>7136-3499</td>
<td>Starter</td>
</tr>
<tr>
<td>7136-3500</td>
<td>Size 0</td>
</tr>
<tr>
<td>7136-3501</td>
<td>Size 1</td>
</tr>
<tr>
<td>7136-3502</td>
<td>Size 2</td>
</tr>
<tr>
<td>7136-3503</td>
<td>Size 3</td>
</tr>
<tr>
<td>7136-3504</td>
<td>Size 4</td>
</tr>
<tr>
<td>7136-3505</td>
<td>Size 5</td>
</tr>
</tbody>
</table>

### CPCS® Inserter Handle

Cat. No. 7136-2630

### CPCS Femoral Stem Driver

Cat. No. 7136-2631

### Calcar Reamers

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>7136-4004</td>
<td>Small</td>
</tr>
<tr>
<td>7136-4005</td>
<td>Large</td>
</tr>
</tbody>
</table>

### CPCS Primary Instrument Tray

Cat. No. 7136-3528

### Small Exterior Carrying Case

Not Shown
Cat. No. 7112-9401

### Lid for Exterior Carrying Case

Not Shown
Cat. No. 7112-9402

### Femoral Sound Tray

Not Shown
Cat. No. 7136-3529
PREP-IM® Kit
Cat. No. 12-1000
Kit contains the following:

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-9418</td>
<td>BUCK® Cement Restrictor, 18.5mm</td>
</tr>
<tr>
<td>12-9419</td>
<td>BUCK Cement Restrictor, 25mm</td>
</tr>
<tr>
<td>11-0003</td>
<td>Femoral Canal Brush, 19mm</td>
</tr>
<tr>
<td>11-1000</td>
<td>Concise Cement Sculps Kit</td>
</tr>
<tr>
<td>11-0037</td>
<td>Femoral Canal Suction Absorber, 19mm</td>
</tr>
<tr>
<td></td>
<td>Disposable Cement Restrictor Tool</td>
</tr>
<tr>
<td></td>
<td>(Available in kit only)</td>
</tr>
</tbody>
</table>

Vent Opening Tool
Cat. No. 11-0028

BUCK Cement Restrictor
Cat. No. 12-9418
Size 18.5mm
Cat. No. 12-9419
Size 25mm
Cat. No. 7127-9420
Size 30mm
Cat. No. 7127-9421
Size 35mm

Concise Cement Sculps Kit
Cat. No. 11-1000
(one of each)

Femoral Canal Suction Absorber
Cat. No. 11-0037
Size 19mm
Cat. No. 11-0038
Size 25mm
### Femoral Pressurizers

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>7127-0026</td>
<td>Small</td>
</tr>
<tr>
<td>7127-0027</td>
<td>Medium</td>
</tr>
<tr>
<td>7127-0028</td>
<td>Large</td>
</tr>
</tbody>
</table>

### BUCK Femoral Cement Restrictor Inserter

Cat. No. 11-2428

### Femoral Canal Brush

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>OD</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-0033</td>
<td>12.5mm</td>
</tr>
<tr>
<td>11-0003</td>
<td>19mm</td>
</tr>
</tbody>
</table>

### MIXOR® Vacuum Mixing System with Syringe

Cat. No. 7127-0020

### Femoral Cement Compressor

Cat. No. 11-1434
Disposable Femoral Cement Compressor Cap  
Cat. No. 11-1435

MIXOR® Pump and Hose Kit  
Cat. No. 7127-0040

MIXOR Hose Only  
(not shown)  
Cat. No. 7127-0041

MIXOR Pump Only  
(not shown)  
Cat. No. 7127-0042

Injector Gun  
Cat. No. 7127-2000

VORTEX® Vacuum Mixer  
Cat. No. 7127-0070

VERSABOND®  
Cat. No. 7127-1140

VERSABOND Sample  
Cat. No. 7127-0094
Catalog Information - Cement & Accessories

Connector, Schraeder
Cat. No. 7127-0050

Connector, Drager
Cat. No. 7127-0051

Connector, DISS
Cat. No. 7127-0052

Handpiece with Zimmer Coupling
Cat. No. 7127-7000

Powerhose with Zimmer Coupling
Cat. No. 7127-7001

Hip and Knee without suction
Cat. No. 7127-7004

Hip and Knee without Suction
Cat. No. 7127-7005