TRAUMACEM™ V+ Augmentation System

Quick Step Guide for OR Personnel

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TRUAMACEM™ V+ Augmentation System for TFNA System
Quick Step Reference Guide for Augmentation Preparation and Injection Into TFN-ADVANCED® Proximal Femoral Nailing System

**Instruments**

- **07.702.040S** TRUAMACEM™ V+ Injectable Bone Cement
- **07.702.121S** TRUAMACEM™ V+ Injection Cannula, for TFN System
- **03.702.150S** TRUAMACEM™ V+ Syringe Kit, 4 x 1 mL, 2 x 2 mL

**1. Adjust sleeve of side-opening cannula**
Adjust the sleeve of the side-opening cannula to the selected head element length.

**2. Check for possible cement leakage into joint**
Attach syringe to the side-opening cannula and refill the side-opening cannula with approximately 4 mL of radiographic contrast agent.
Insert the side-opening cannula through the guide sleeve into the helical blade/screw until the stop. Confirm length and verify under image intensification. Inject radiographic contrast agent into the femoral head and monitor the flow under image intensification. If noted under fluoroscopy that the cement is traveling towards the joint surface, move the cannula laterally by rotating the sleeve 1 clockwise turn. Visualization of cement during injection must be guaranteed. Continuously monitor the cement flow under image intensification. It is recommended to use 3 mL of cement for augmentation, but not to exceed 6 mL of cement.

**3. Prepare cement**
Hold the mixer upright and gently slap with the finger tip at the top of the mixing device. While mixing, be sure to only handle the blue portion of the mixer. Pull the handle until it is fully retracted (1). Open the glass ampoule by breaking the bottle neck with the plastic cap (2). Remove and dispose of the mixing device sterilization lid (3). Pour all monomer from the glass ampoule into the cement powder and close the mixing device tightly using the enclosed transferring lid. Mix the cement by moving the blue handle back and forth from stop to stop approximately 20 times (4). Perform the first mixing strokes slowly with oscillating-rotating movements (5). After mixing fully retract the handle (1). Once the cement has been mixed remove the lid (1). Connect the stop-cock to the mixer (7). Ensure a tight fit. Remove the air from the system. With the valve open, gently turn the handle of the cement mixer clockwise. The mixer piston will advance in the translucent cartridge and a steady flow of cement will move into the stop-cock. As soon as the cement is visible in the stopcock, close the valve (8). Attach a 2 mL syringe to the one way stop-cock (9). Open the one way stop-cock. Gently turn the handle of the cement mixer clockwise to advance the piston (10). As soon as the syringe is filled, close the stop-cock and move the “off” sign towards the mixer (11). Disconnect the full syringe and attach the next syringe to be filled (12). Avoid spillage of cement into the funnel during the transfer process. Continue to fill all 1 mL and 2 mL syringes in the same manner.

**4. Insert side-opening cannula and inject cement**
Insert the side-opening cannula through the guide sleeve into the helical blade/screw until the stop. Confirm length and verify under image intensification. Slowly inject the cement using 1 mL syringes. Optimize the filling by rotating the handle to inject cement around the blade/screw. It is recommended that the surgeon maintain a minimum distance of 6 mm between the boundary of cement and the joint surface.
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