

Sensation Plus / Mega IAB

Insertion Guide

Note: This is an abbreviated guide. For complete instructions, refer to Instructions for Use.



Sensation Plus 8 Fr.

Insertion steps

- 1 Make the customary preparations for percutaneous catheterisation and administer local anaesthesia.
- 2 Insert the angiographic needle into the common femoral artery at a 45 degree or less angle.
- 3 Insert the J-tip end of the 0.025" guidewire through the angiographic needle and advance into the thoracic aorta.
- 4 Keeping the guidewire in place, remove and discard the needle.
- 5 Wipe the guidewire with a wet, lint-free sponge.

For Sheath insertion

- 6 Insert the introducer dilator into the sheath hub and twist to lock in place.
- 7 Place the tapered end of the introducer dilator over the exposed guidewire and advance the introducer with a rotary motion into the arterial lumen.
- 8 Remove the introducer dilator leaving the sheath and 0.025" guidewire in place.

For Sheathless insertion

- 9 Make a small incision at the exit of the guidewire to facilitate inserting the vessel dilator through the skin.
- 10 Place the tapered end of the vessel dilator over the exposed guidewire and dilate the artery by pushing the vessel dilator into the arterial lumen.
- 11 Keeping the guidewire in place, remove and discard the vessel dilator.
- 12 Wipe the guidewire with a wet, lint-free sponge.

Catheter Preparation

- 13 Firmly attach the 30 cc syringe with one-way valve to the male luer fitting of the extracorporeal tubing.
- 14 With the 30 cc syringe, slowly aspirate a full 30 cc. Remove the syringe while leaving the one-way valve securely in place on the tubing to ensure vacuum is maintained.
- 15 Carefully remove contents from the balloon tray.
- 16 Flush inner lumen with 3-5 cc of flush solution.

Catheter Insertion

- 17 Remove the balloon membrane from the blue protective T-handle by pulling straight out. DO NOT handle the IAB membrane or wipe the catheter prior to insertion.
- 18 Insert the 0.025" guidewire through the inner lumen to proper position (2 cm distal to the left subclavian artery). While controlling the proximal end of the guidewire, advance the IAB catheter over the guidewire in short, continuous, one inch strokes to avoid kinking the IAB catheter. DO NOT twist the catheter during insertion.

Initiating IAB Pumping (IABP)

- 19 Remove the guidewire. Aspirate and discard 3 cc of blood from the inner lumen and immediately perform a manual flush with 3-5 cc of flush solution.
- 20 Using hospital protocol, connect a standard pressure flush apparatus to the hub of the inner lumen.
- 21 Remove the one-way valve from the male luer of the extracorporeal tubing.
- 22 Connect the IAB catheter's male luer fitting to the female luer fitting of the catheter extender.
- 23 Connect the male luer fitting of the catheter extender tubing to the Safety Disk (CS300) or Pneumatic Module (Cardiosave).

For connecting the Sensation Plus IAB catheter to Maquet/Datascope fiber-optic compatible IABPs

- 24 Completely remove the cable wrap securing the Fiber-optic Sensor cable.
- 25 Carefully uncoil the Fiber-optic Sensor cable by loosely holding the coiled cable in one hand. With the other hand, grasp the Fiber-optic Sensor connector and slowly pull to uncoil the cable.
- 26 With one hand, grasp the IAB's Fiber-optic Sensor. The red mark on the connector should be up.
- 27 With the other hand, remove and discard the protective cover from the Fiber-optic Sensor connector.
- 28 With free hand, slide open the protective shutter located on the pump's rear panel by sliding it to the left to expose the IABP sensor input. Keep the shutter door open until connection is complete.
- 29 Insert the Fiber-optic Sensor connector into the IABP's sensor input receptacle. The connector should be inserted until it "clicks". DO NOT touch the exposed end of the Fiber-optic Sensor connector.
- 30 For securement connect the Fiber-optic Sensor cable to the tubing clips located on the catheter extender tubing.

Follow the IAB pump operating instructions to initiate pumping.



Scan or click the QR code to watch Intra-Aortic Balloon Catheter Insertion video

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