

Lines and Introducers

Critical Care Trauma Centre
February 11, 2026 (Olivia Gomes Vanberlo)



London Health
Sciences Centre



Children's Hospital
London Health Sciences Centre

CENTRAL VENOUS CATHETERS

Spectrum Central Venous Catheter Set - 3 Lumen



Brand: Cook Medical

Model: Spectrum

Size: 7 French, 15 cm

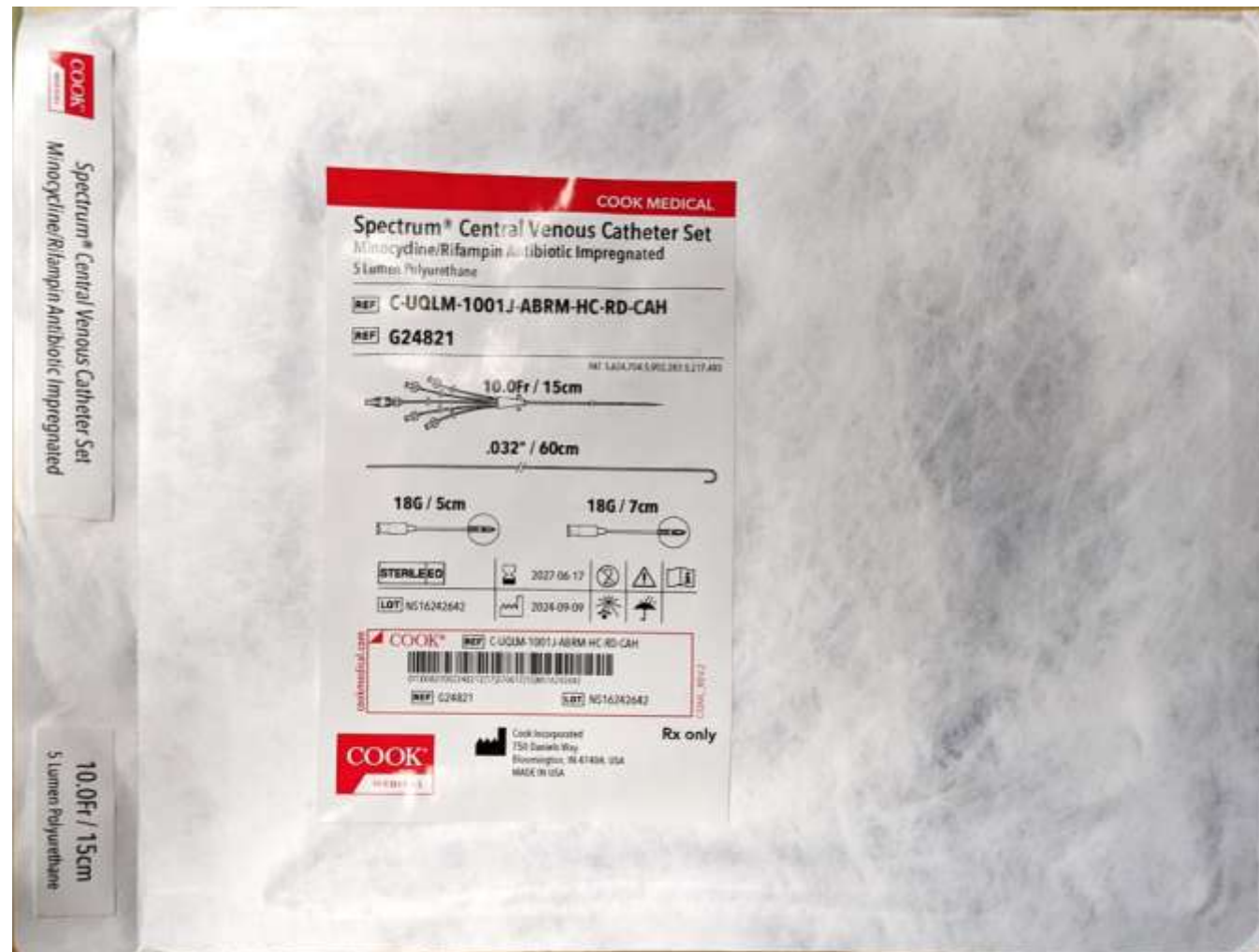
Indication: IJ and subclavian central line

Allergy Alert: Minocycline and Rifampin impregnated

Power Injectable: Yes (max. 10 mL/sec)

Other Notes: Standard CVC in CCTC

Spectrum Central Venous Catheter Set - 5 Lumen



Brand: Cook Medical

Model: Spectrum

Size: 10 French, 15 cm

Indication: IJ and subclavian central line; need extra access with 5 lumens

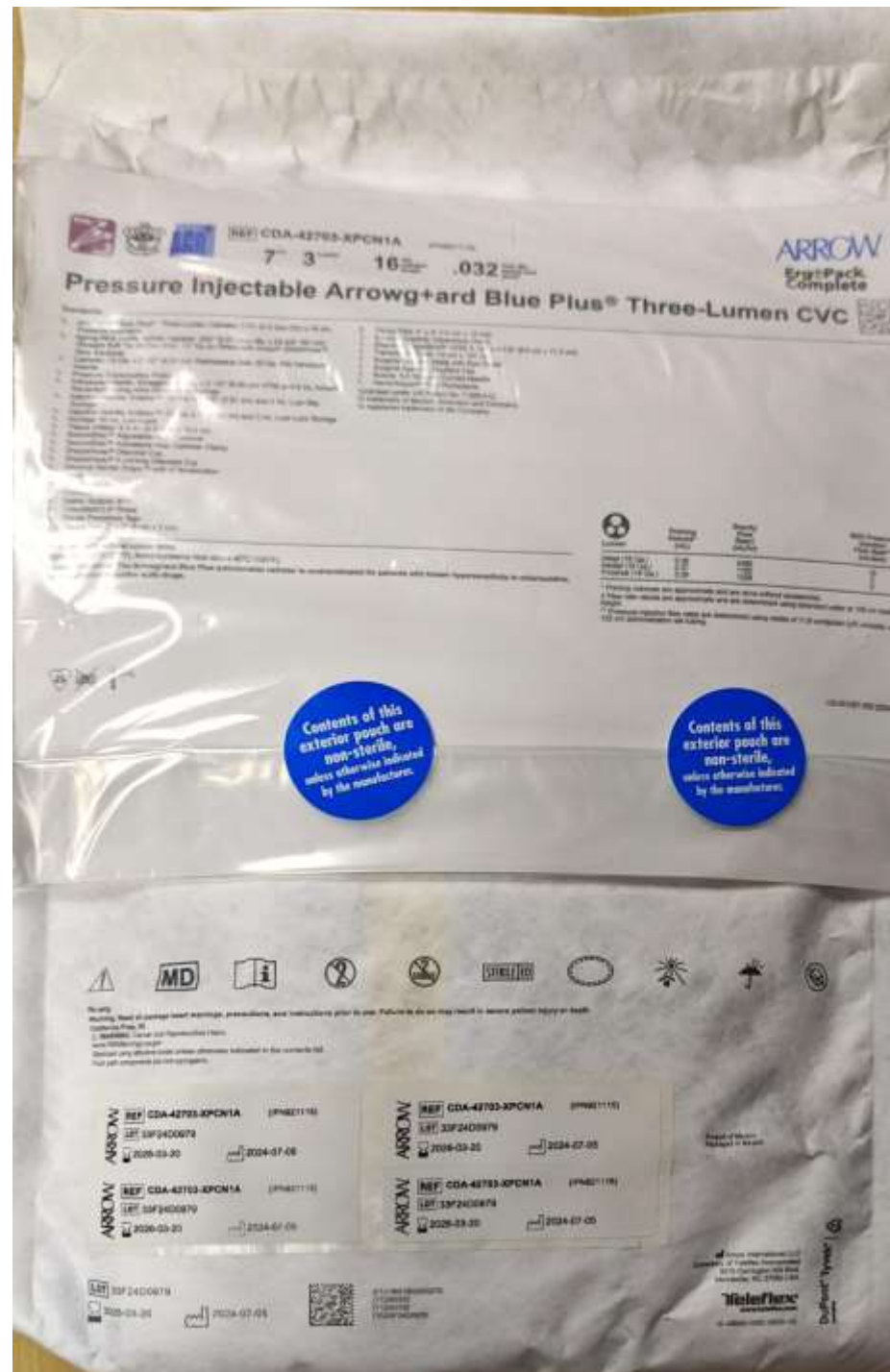
Allergy Alert: Minocycline and Rifampin impregnated

Power Injectable: Yes (max. 10 mL/sec)

Other Notes: Carries additional risk and are only inserted by experienced senior residents or consultants.

Tract requires double dilation due to catheter diameter (medium followed by large dilator). Also, the distal lumen has preinserted stylet - this lumen must remain unclamped during advancement. After insertion, the stylet is removed and then the distal lumen is clamped (catheter fracture/embolism can occur if clamped while stylet is in lumen).

Pressure Injectable Arrowg+ard and Blue Plus Three Lumen



Brand: Arrow

Size: 7 French, 16 cm

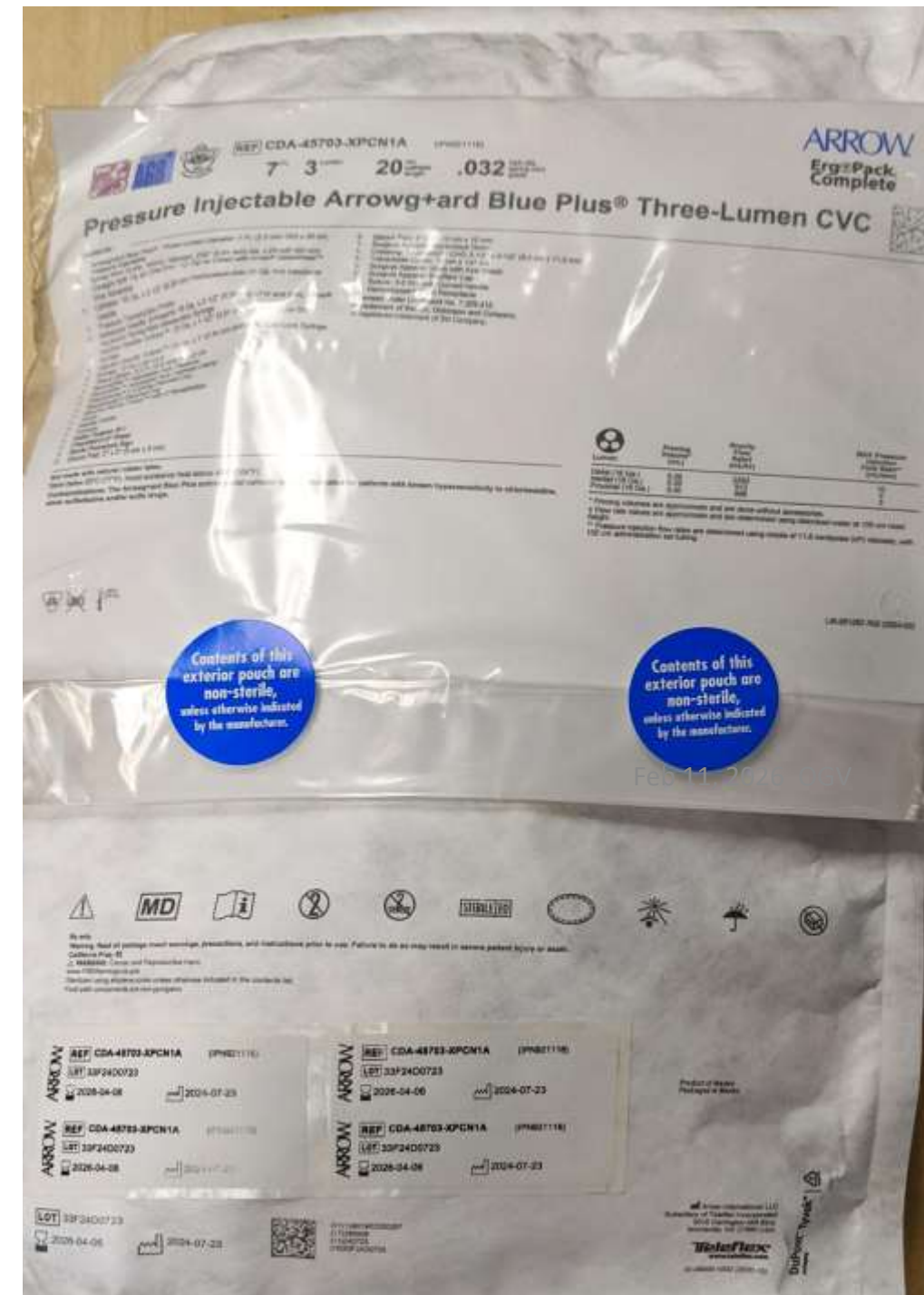
Indication: IJ and subclavian central line

Allergy Alert: Chlorohexidine-Silver sulfadiazine impregnated (e.g. sulfa)

Power Injectable: Yes

Other Notes: Not as common as it includes both catheter and insertion kit

Pressure Injectable Arrowg+ard Blue Plus Three Lumen



Brand: Arrow

Size: 7 French, 20 cm

Indication: Left IJ and femoral central line

Allergy Alert: Chlorohexidine-Silver sulfadiazine impregnated (e.g. sulfa)

6

Power Injectable: Yes

Other Notes: The only 20 cm length we stock; used most frequently for femoral access.

Three-Lumen CVC for use only with Arrow Percutaneous Sheath Introducer



Brand: Arrow

Size: 7 French, 16 cm

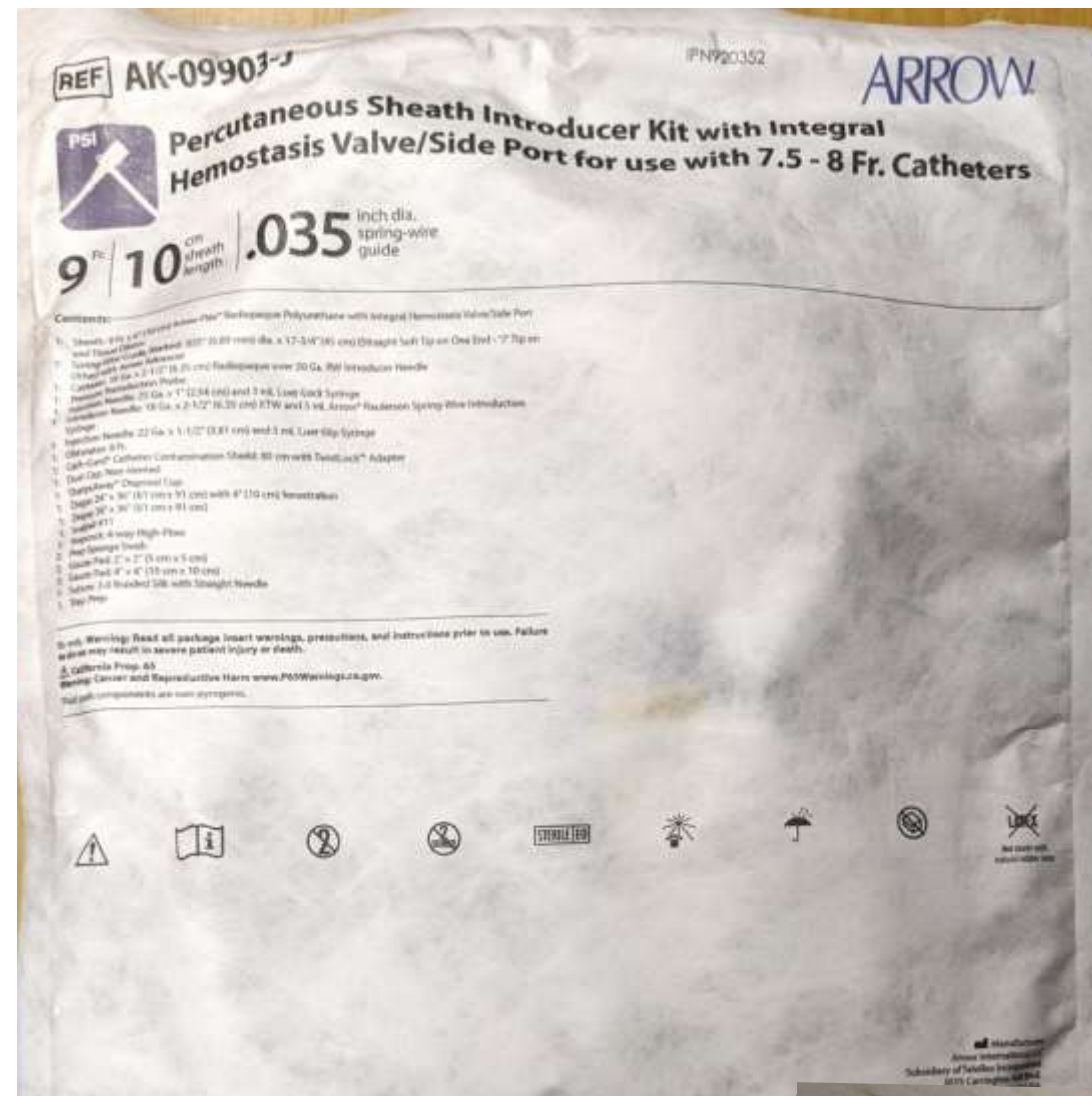
Indication: This is the only triple lumen that should be inserted into an 9F Arrow Percutaneous Sheath Introducer (companion catheter). Should only be inserted if sterility cap has been maintained on introducer.

Power Injectable: Yes

Other Notes: Locks in place to maintain sterility and prevent leakage or catheter movement.

INTRODUCERS

Percutaneous Sheath Introducer with Integral Hemostasis Valve/Side Port for 7.5-8 fr. catheters



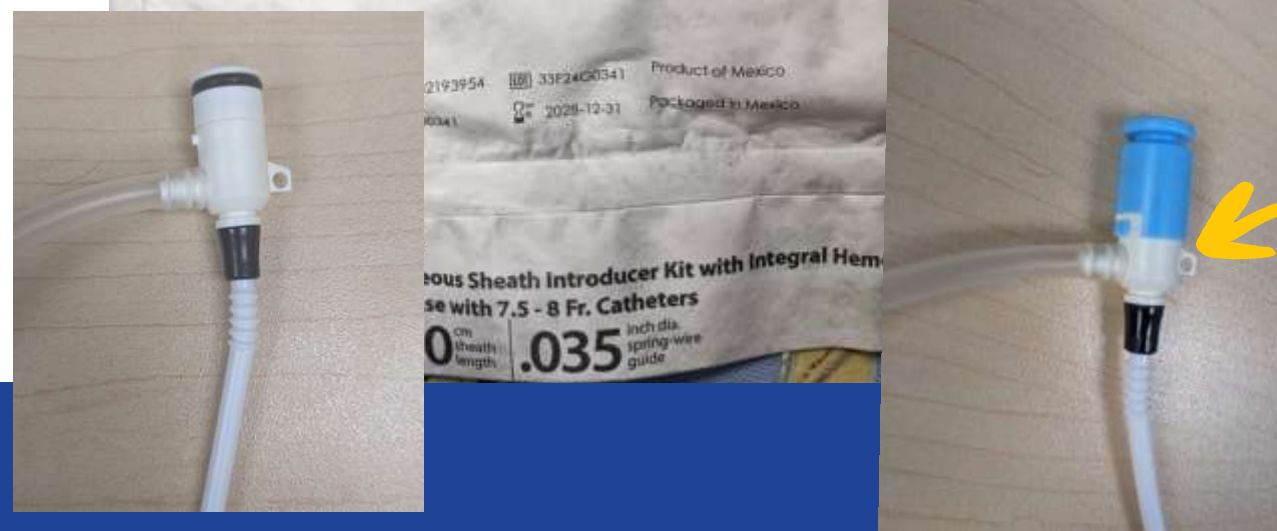
Brand: Arrow

Size: 9 French, 10 cm

Indication: Stand alone for fluid resuscitation; insertion of a pulmonary artery catheter (7.5 F) via a yellow sterility sleeve found in kit or bay 5; CVC placement (only with Arrow companion catheter)

Power Injectable: No

Other Notes: The side arm is a large central venous line, requiring continuous infusion to maintain patency, whether used with or without a PA or companion catheter (5 ml/hr is sufficient).



If nothing is inserted in introducer, then place blue sterility cap (obturator)

Percutaneous Sheath Introducer with Integral Hemostasis Valve/Side Port for 4-6 fr. catheters

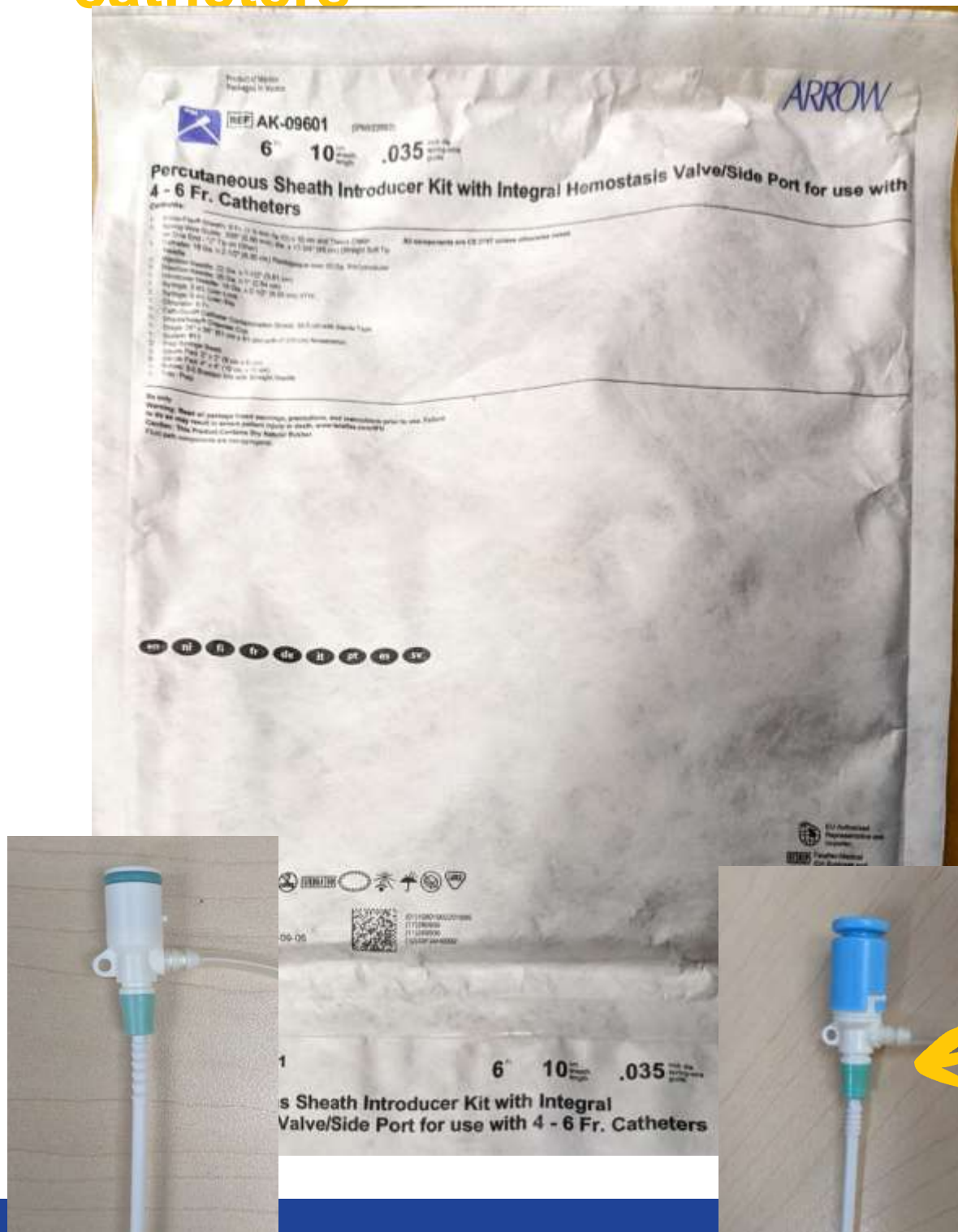
Brand: Arrow

Size: 6 French, 10 cm

Indication: For insertion of a 5F temporary transvenous pacemaker, via a blue sterility sleeve found in kit.

Power Injectable: No

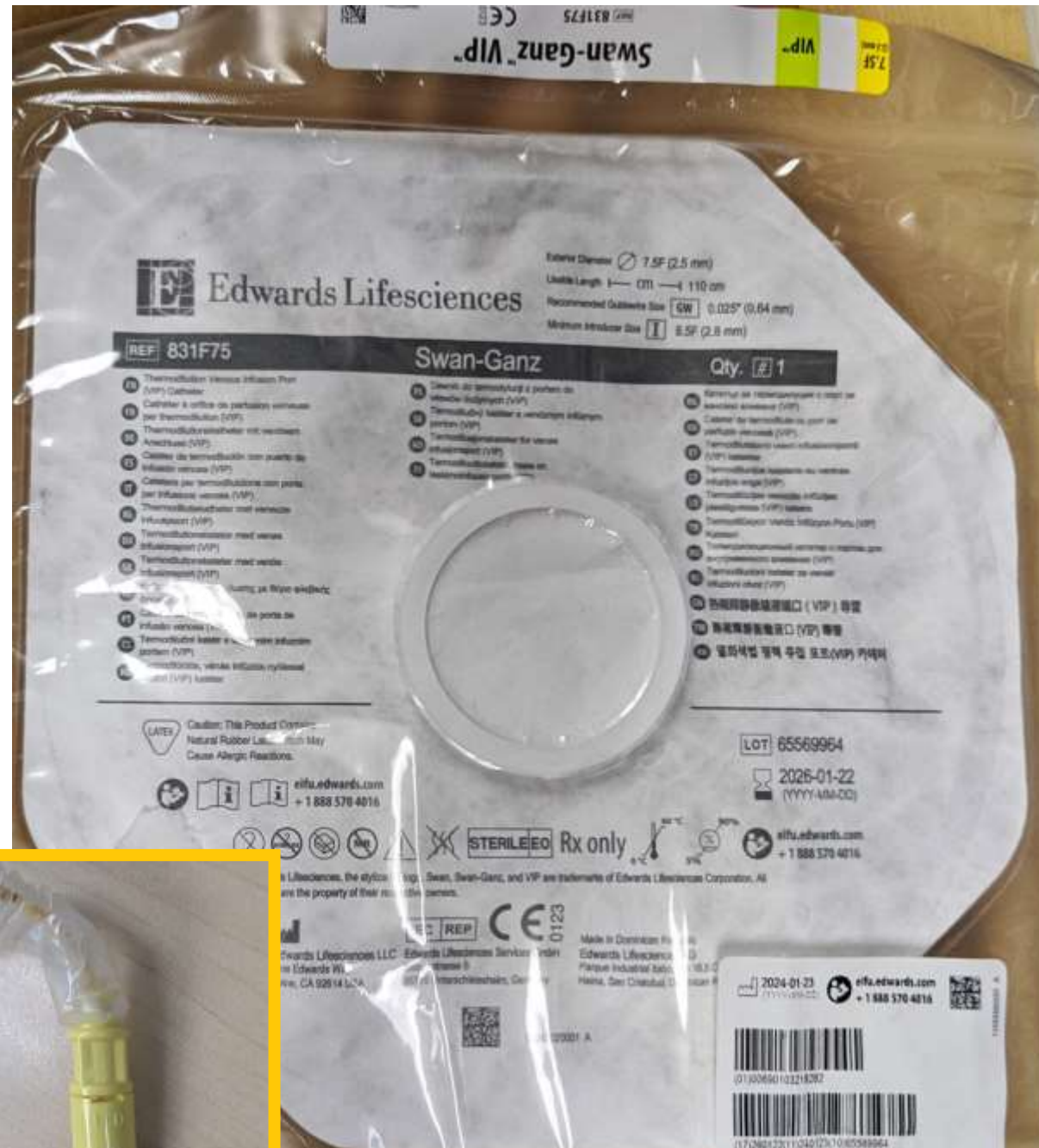
Other Notes: The side arm is a large central venous line, requiring continuous infusion to maintain patency, whether used with or without a pacemaker (5 ml/hr is sufficient).



If nothing is inserted in introducer, then place blue sterility cap (obturator)

PULMONARY ARTERY CATHETERS

Swan Ganz PA



Brand: Edwards Lifesciences

Size: 7.5 French, 110 cm

Indication: Pulmonary artery catheter

Allergy Alert: **Latex**

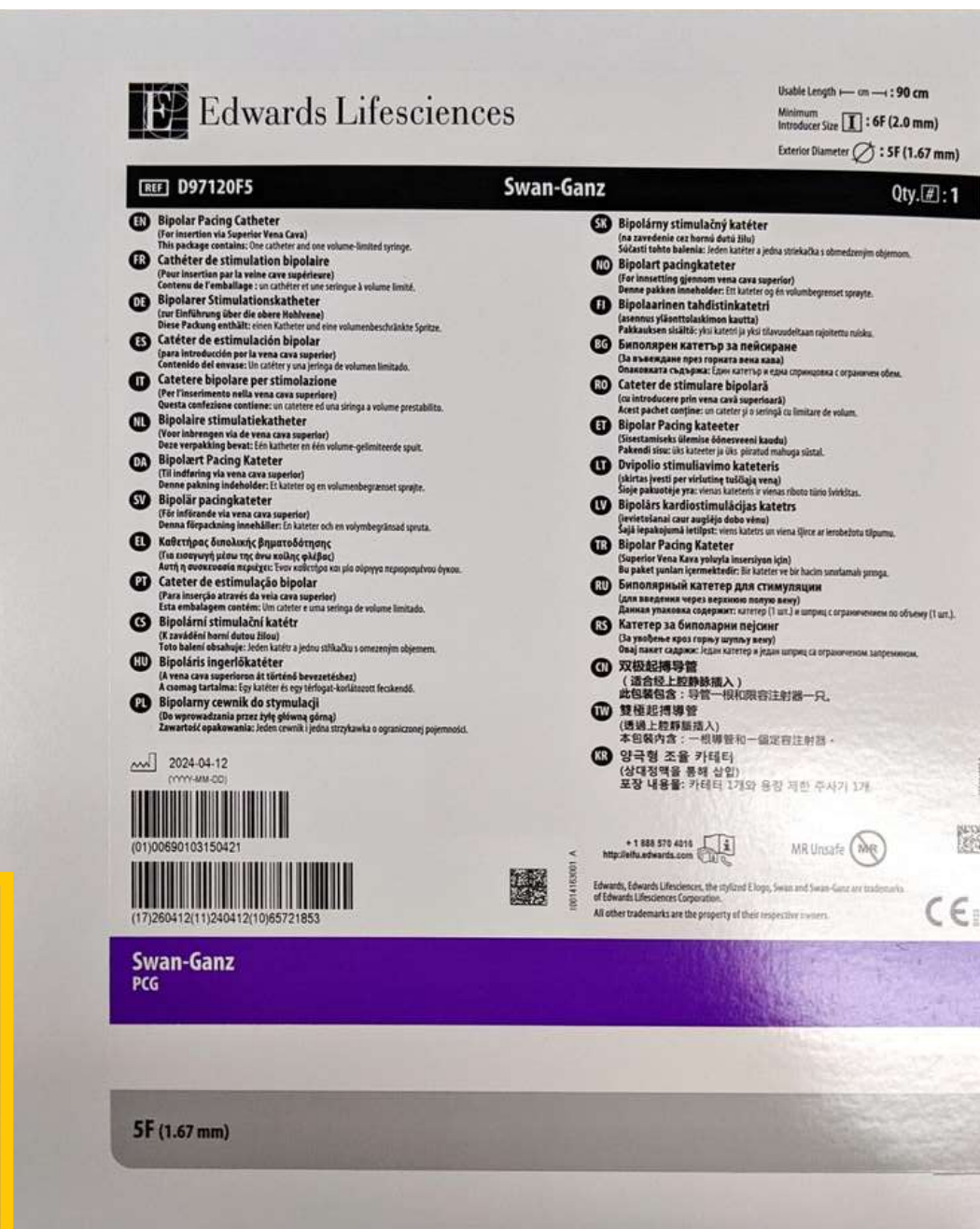
Other Notes: Inserted through the yellow sterility sleeve (found in kit or bay 5 stock room) and the 8.5 or 9F introducer. The side arm is the preferred location for vasoactive drugs to prevent drug interruption during advancement, withdrawal or removal of the PA catheter. No continuous infusions in the blue (proximal injection port)



Image of Swan Ganz PA inserted via yellow sterility sleeve and 9 F introducer

TRANSVENOUS PACEMAKER

Swan Ganz PCG



Brand: Edwards Lifesciences

Size: 5 French, 90 cm

Indication: Placement of a transvenous pacing wire

Allergy Alert: Latex

Other Notes: Inserted through a blue sterility sleeve (found in kit) and then the 6F introducer. The side arm can be used for vasoactive drugs.

Image of Swan Ganz PCG inserted via sterility sleeve and 6 F introducer

ARTERIAL LINES

Arterial Catheterization Set



Brand: Arrow

Size: 20 Gauge, 5cm

Indication: Radial arterial Line

Other Notes: Preferred peripheral arterial line in CCTC. Designed for longer use. Has better securement wings and slide clamp to minimize blood loss/blood exposure.

QuickFlash Radial Artery Catheterization Set

Brand: Arrow

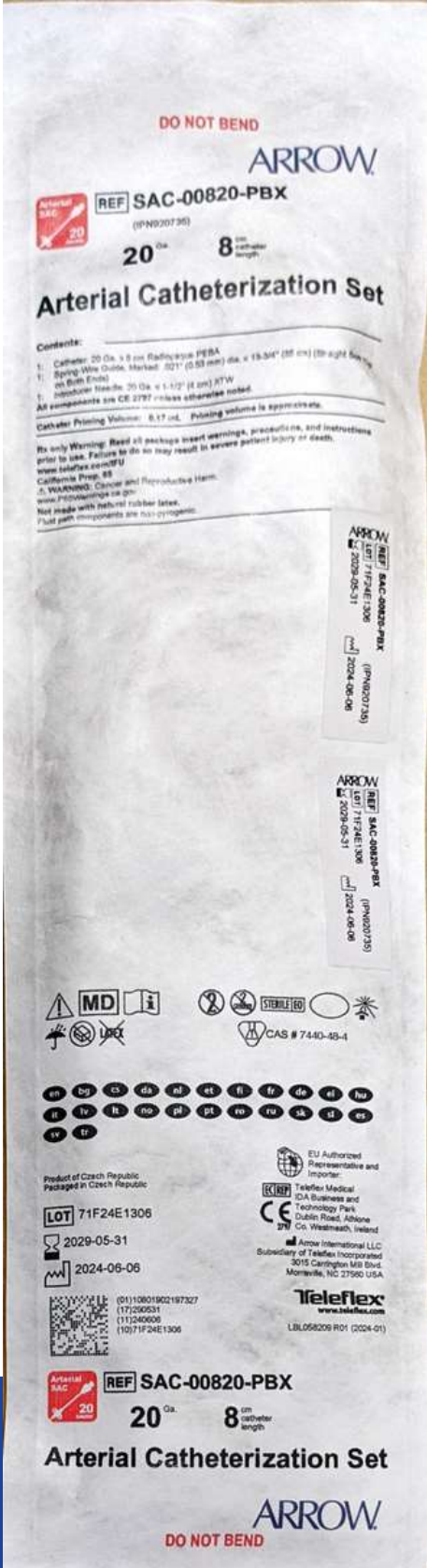
Size: 20 Gauge, 3.81 cm

Indication: Radial arterial Line

Other Notes: More suitable for short term use
such as in the OR



Arterial Catheterization Set



Brand: Arrow

Size: 20 Gauge, 8 cm

Indication: Brachial or axillary arterial line

Other Notes: Brachial and axillary arterial lines carry additional risk and are only inserted by an experienced senior resident or consultant.

Femoral Artery Catheterization Set



Brand: Cook Medical

Size: 5 french, 15 cm

Indication: Femoral arterial line

Other Notes: Uncommon site in CCTC; carries additional risk and are only inserted by an experienced senior resident or consultant.

TEMPORARY DIALYSIS CATHETERS

Niagara Short Term Dialysis Catheter Kit

Brand: Bard

Size: 13.5 Fr, **15 cm**

Indication: Temporary dialysis via right internal jugular vein

Other Notes: Stocked in charge nurse office; VBG to confirm placement on insertion

*Only inserted by CCTC or Nephrology Senior residents or Consultants.
Large catheter diameter requires double-dilation. Distal lumen has a stylet that must be removed after insertion. Distal lumen is not clamped until stylet removal (to prevent stylet fracture|embolism). Following insertion, physician should assess flow rate of each limb by pulling and then returning 100 mL of blood within 3 seconds (confirms a blood flow of at least 200 ml/min).*



Niagara Short Term Dialysis Catheter Kit

Brand: Bard

Size: 13.5 Fr, 20 cm

Indication: Temporary dialysis via left internal jugular vein

Other Notes: Stocked in charge nurse office; VBG to confirm placement on insertion

Only inserted by CCTC or Nephrology Senior residents or Consultants.
Large catheter diameter requires double-dilation. Distal lumen has a stylet that must be removed after insertion. Distal lumen is not clamped until stylet removal (to prevent stylet fracture|embolism). Following insertion, physician should assess flow rate of each limb by pulling and then returning 100 mL of blood within 3 seconds (confirms a blood flow of at least 200 ml/min).





Niagara Short Term Dialysis Catheter Kit

Brand: Bard

Size: 13.5 Fr, **24 cm**

Indication: Temporary dialysis via femoral vein

Other Notes: Stocked in charge nurse office;
VBG to confirm placement on insertion

*Only inserted by CCTC or Nephrology Senior residents or Consultants.
Large catheter diameter requires double-dilation. Distal lumen has a stylet that must be removed after insertion. Distal lumen is not clamped until stylet removal (to prevent stylet fracture/embolism). Following insertion, physician should assess flow rate of each limb by pulling and then returning 100 mL of blood within 3 seconds (confirms a blood flow of at least 200 ml/min).*

