Step-by-step guide Cannulation

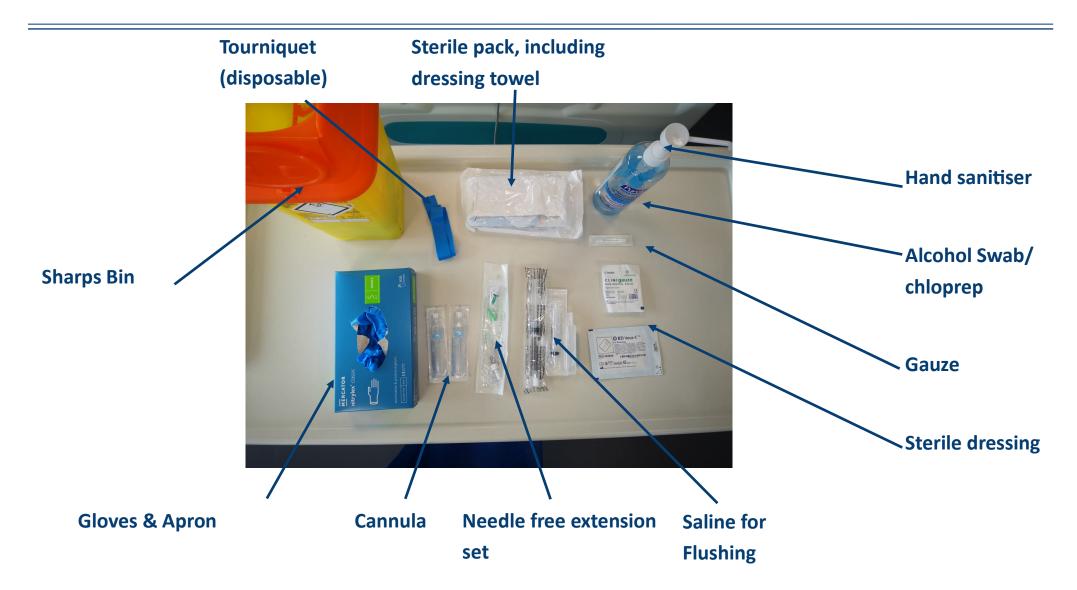




Reviewed June 2021



Gather your equipment







Confirm patient identify both verbally and via the ID band

Explain the procedure to the patient

Gain consent

Apply Tourniquet



Apply the tourniquet

Assess and select a vein

Gentle tapping may help, encourage venous access using gravity, you can ask the patient to open and close their fist, also using a warm pack can help

Release the Tourniquet



The tourniquet needs to be released whilst you prepare for the procedure

Select all the equipment—ensuring the correct size cannula

Open a sterile pack and add equipment to tray

Prime the extension set with 0.9% sodium chloride. Place a sterile towel under the patient's arm to create a clean working area

Reapply the Tourniquet



Reapply the tourniquet when ready to commence procedure

If necessary, re-palpate vein



Clean the Skin



Using 2% chlorhexidine gluconate in 70% isopropyl to clean the area of the selected vein for 30 seconds

Use several strokes back and forth with friction

Allow the area to air dry for 30 seconds, do not repalpate or touch the skin after cleaning

Apply appropriate PPE



Cleanse hands with either hand gel or washing with soap and water

Apply gloves, these do not need to be sterile

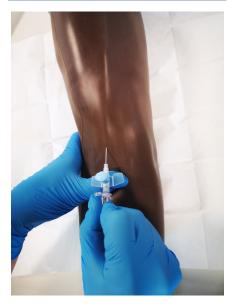
Open cannula and inspect for faults

Stabilise the vein



Using your non dominant hand stabilise the vein by applying traction on the skin

Insert cannula



Place the cannula directly over the vein

Ensure the bevel is pointing up (eye to the sky)

Insert the cannula through the skin between 10° and 40° depending on the depth of the vein



Observe for flashback



Look for the flashback of blood in the flashback chamber, this confirms access to the vein

Level the cannula



Decrease the angle of the cannula from the skin. The cannula needs to be lowered to roughly an angle of 15° with the skin, but the angle can be less

Advance (push the cannula further into vein) the cannula slightly to ensure entry into the lumen of the vein

Withdraw the needle



After seeing the first flashback, withdraw the stylet through the cannula

You should see a second flash of blood along the shaft of the cannula

Advance the cannula

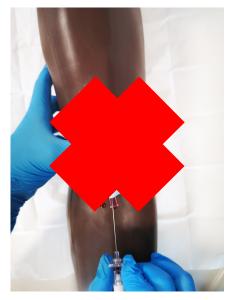


Whilst keeping the traction on the skin, slowly advance the cannula off the needle and into the vein using your dominant hand

Release traction and then release the tourniquet



Do not reintroduce the needle



If the cannula does not advance, do not reintroduce the needle, you may pierce the cannula or the vein

Remove the needle



Whilst applying pressure to the vein remove the needle

As the needle is withdrawn, if present, the safety device may activate itself or the practitioner may need to activate it; follow manufacturer's instructions

Dispose of needle in sharps bin immediately

Flush the cannula



Attached the primed needle free device and flush the cannula

Use a pulsatile (push-pause) technique to inject the 0.9% sodium chloride, this aims to create a turbulent flow that will remove blood from the internal wall of the cannula

Observe the site



Whilst flushing observe the entry site for leakage and swelling

Ask the patient if they have any discomfort



Remove the syringe



Whilst removing the syringe from the injection cap, maintain pressure on the plunger with your thumb, this creates positive pressure and prevents blood reflux into the cap

Dispose of waste

Secure the cannula



Close the clamp on the needle free device

Secure the cannula to the skin, ensuring that the tape does not cover the insertion site

Use only sterile tape or the tapes supplied with the dressing

Always secure following local policy

Apply the dressing



Follow trust policy when applying a dressing

Always date the dressing

Document the following details in the patient's notes: date and time, size and location of device, reason for resiting (if appropriate) and signature of person inserting the cannula

Dispose of waste



Dispose of all waste according to trust policy







Remove PPE and wash hands

Document procedure	
Peripheral IV Cannulation	
Date inserted:	Time:
No. of Attempts:	Gauge:
Insertion Site:	
Left	Right
	PRINT:
Removal Details	
	DDINT
	PRINT:

Document according to trust policy