

Student Name:		Self	Peer	Peer/ Tutor	Tutor
Medical School: _____ Year: _____ <b>Cannulation</b> You have been asked to see a patient who requires a cannula for IV antibiotics. Please can you insert a peripheral venous cannula for this manikin/patient I will ask some questions before and during the procedure					
<b>Explain clinical indications</b>	<ul style="list-style-type: none"> <li>● Administer IV fluids</li> <li>● Administer blood and blood product</li> <li>● Administer IV drugs</li> </ul>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Discuss anatomical and physiological principles</b>	<ul style="list-style-type: none"> <li>● Veins in the upper limbs that may be accessed: antecubital fossa (medial cubital vein), basilic vein (ulnar side), cephalic vein (radial side) and metacarpal veins, dorsal venous arch</li> <li>● Aim for distal first</li> </ul>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Explain contraindications for cannulation</b>	<ul style="list-style-type: none"> <li>● <b>Absolute:</b> AV fistula, patient refusal, ipsilateral mastectomy, trauma of the extremity.</li> <li>● <b>Relative:</b> Overlying skin abnormality (cellulitis, burns, skin disease) bruising, oedema, CVA</li> </ul>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Explain parts, sizes and choice of cannula</b>	<ul style="list-style-type: none"> <li>● Introducer needle, cannula wings, injection port, flashback chamber, cap. Grip plate, safety clip</li> <li>● Cannula colour coded for gauge</li> <li>● Size required for this procedure- smallest cannula/ for required flow rate/ in largest vein</li> </ul>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Explain main complications</b>	<ul style="list-style-type: none"> <li>● Localized phlebitis and/or cellulitis, bleeding from site, air embolism, catheter fracture and embolism (rare) infiltration, extravasation</li> </ul>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Wash hands</b>	<ul style="list-style-type: none"> <li>● Hand wash with water and soap using the Ayliffe technique</li> </ul>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Demonstrate communication skills and obtaining informed consent</b>	<ul style="list-style-type: none"> <li>● Introduces themselves</li> <li>● Identifies patient appropriately</li> <li>● Establishes patient's expectations or worries</li> <li>● Gains informed consent, clear explanation of the procedure, risk and benefits</li> <li>● Checks for allergies</li> <li>● Checks if patient is on anticoagulation therapy</li> <li>● Checks for absolute / relative contraindications</li> <li>● Encourages questions from the patient</li> </ul>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Prepares equipment</b>	<ul style="list-style-type: none"> <li>● Applies apron (gloves optional) and cleans tray according to local policy</li> <li>● Removes PPE &amp; gels hands</li> <li>● Collects all appropriate equipment, including apron, gloves and alcohol hand gel</li> <li>● Disposable tourniquet</li> <li>● Skin cleanser (2% Chlorhexidine; 70% alcohol)</li> <li>● 10ml 0.9% sodium Chloride, prescribed on drug chart &amp; 10ml syringe</li> <li>● Sharps bin and injection tray.</li> <li>● Checks intact packaging and all expiry dates</li> </ul>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Demonstrates procedure</b>	<ul style="list-style-type: none"> <li>● States this is an aseptic non touch technique</li> <li>● Washes hands, enters patient bed space and uses alcohol hand gel and puts apron on</li> <li>● Explains how to position a patient comfortably</li> <li>● Opens pack, preps and arranges equipment</li> <li>● Applies tourniquet to select suitable vein - 2 fingers underneath &amp; check radial pulse</li> <li>● Tourniquet is 10cm above the site of cannulation. Remove tourniquet once vein identified.</li> <li>● Clean skin using cross hatch motion for 30 seconds, allows skin to dry</li> <li>● Puts on non-sterile gloves</li> <li>● Primes needle free device (where appropriate)</li> </ul>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	<ul style="list-style-type: none"> <li>● Does NOT re-palpate the vein - re-applies tourniquet</li> <li>● Applies skin traction to anchor the vein below the site of cannulation</li> <li>● Informs patient of sharp scratch</li> <li>● Ensuring that the bevel of the needle is facing upwards, inserts cannula into the vein and obtains first flashback in "flashback" chamber</li> <li>● Lowers the angle of the cannula, inserts a further 2-3mm prior to withdrawing needle slightly to ensure the cannula has entered the vein and then to see a second flash back along the length of the cannula tube.</li> <li>● Keeping the needle still, advances the cannula into the vein and releases tourniquet</li> <li>● Places thumb on wing of cannula and finger past the tip of the cannula to prevent bleeding. Use sterile gauze under cannula if required.</li> <li>● Removes needle, immediately places into sharps container and applies primed needle-free device</li> <li>● Secures wings of cannula with cannula dressing</li> <li>● Checks cannula patency with at least 5mls of 0.9 % Sodium Chloride in a 10ml syringe using a pulsatile action</li> <li>● Apply curocap cap(s) onto injection port(s) of needle-free device if used by Trust</li> <li>● Dates cannula dressing and locks cap on top of the cannula hub,</li> <li>● Ensures patient is comfortable and disposes of equipment appropriately</li> <li>● Washes hands following Trust policy</li> <li>● Thanks patient</li> </ul>				
Discusses post-procedure management	<ul style="list-style-type: none"> <li>● Completes documentation-according to local trust policy and peripheral venous access form</li> <li>● Ensures Nursing staff are aware of successful cannulation</li> <li>● Inspect cannula site as per local trust policy</li> <li>● Replace cannula as per local trust policy</li> </ul>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Demonstrates professionalism	<ul style="list-style-type: none"> <li>● Assessment throughout the procedure &amp; encourages patient to ask questions</li> <li>● Maximum of 2 attempts</li> </ul>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall ability to perform procedure	<ul style="list-style-type: none"> <li>● Assess globally, would you be happy for this student to be supervised to perform cannulation?</li> </ul>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Self-assessed as at least pass	Signature: _____ Date: _____				
Peer-assessed ready for tutor	Signature: _____ Date: _____				
Tutor assessed:	Signature: _____ Date: _____				
Notes					

F = Fail      B = Borderline      P = Pass      G = Good      E= Excellent