OSCE Checklist: ABG Sampling

Introduction **1** Gather equipment 2 Wash your hands and don PPE if appropriate 3 Introduce yourself to the patient including your name and role 4 Confirm the patient's name and date of birth 5 Briefly explain what the procedure will involve using patient-friendly language 6 Check for any contraindications to ABG sampling 7 Check if the patient has an allergy to local anaesthetic (e.g. lidocaine) 8 Gain consent to proceed with ABG sampling **9** Adequately expose the patient's wrist **10** Position the patient so that they are sitting comfortably, ideally with their wrist supported by a pillow 11 Check if the patient has any pain before proceeding with ABG sampling **Modified Allen's test 12** Ask the patient to clench their fist **13** Apply pressure over the radial and ulnar artery to occlude both vessels **14** Ask the patient to open their hand, which should now appear blanched 15 Remove the pressure from the ulnar artery whilst maintaining pressure over the radial artery **16** Time how quickly colour returns to the hand Preparation 17 Note the patient's current body temperature 18 If the patient is currently receiving oxygen therapy, note the oxygen delivery device and flow rate 19 Remove all equipment from its packaging so that it is easily accessible during the procedure 20 Attach the needle, with its protective cover intact, to the pre-heparinised ABG syringe **21** Position the patient's hand preferably on a pillow for comfort with the wrist extended by approximately 20-30° Procedure 22 Palpate the radial artery over the wrist of the patient's non-dominant hand to identify an ideal puncture site 23 Once you have identified your planned puncture site, clean it with an alcohol wipe for 30 seconds and allow to dry before proceeding **24** Wash your hands again 25 Don a pair of gloves and an apron

26	Administer local anaesthetic and leave for a minimum of 60 seconds before performing arterial sampling	
27	Remove the protective cover from the ABG needle and then flush through the heparin from the syringe	
28	Hold the patient's wrist extended by approximately 20-30°	
29	Palpate the radial artery with your non-dominant hand's index finger around 1cm proximal to the planned puncture site	
30	Warn the patient you are going to insert the needle	
31	Holding the ABG syringe like a dart, insert the needle through the skin at the insertion site at an angle of 30-45 $^\circ$	
32	Continue to advance the needle slowly until you feel a sudden reduction in resistance and see a rush of blood back into the ABG syringe	
33	Allow the ABG syringe to self-fill	
34	Once the required amount of blood has been collected remove the needle and apply immediate firm pressure over the puncture site with some gauze or cotton wool	
35	Engage the needle safety device	
36	Remove the ABG needle from the syringe and discard immediately into a sharps bin	
37	Carefully expel any air from the sample if present, place a cap onto the ABG syringe and invert it gently	
38	Attach a sticker containing the patient's details to the ABG sample	
39	Continue to apply firm pressure to the puncture site for 3-5 minutes to reduce the risk of haematoma formation	
То	complete the procedure	
40	Explain to the patient that the procedure is now complete	
41	Thank the patient for their time	
42	Dispose of your PPE and equipment into an appropriate clinical waste bin	
43	Wash your hands	
44	Take the ABG sample to be analysed as soon as possible after being taken	
45	Document the ABG results in the patient's notes	

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