Arterial Blood Gas

1. Washed hands.		**( ) Done**	**( ) Not Done**
Items 2-4 can be done in any order			
2. Checked that all necessary equipment was available and ready to use.		**( ) Done**	**( ) Not Done**
3. Student stated: "*I am confirming the patient with at least two identifiers and performing a timeout."*		**( ) Done**	**( ) Not Done**
4. Put on examination gloves.		**( ) Done**	**( ) Not Done**
5. Identified location of radial artery (palpated pulse lateral to flexor carpi radialis tendon; thumb may not be used for palpation).	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
Assessor prompt: **"<u>Describe and demonstrate</u> the steps in the Allen test."** May use instructor's hand or task trainer. Student verbalized following steps in noted order.			
6. Held patient's hand up and had patient clench and unclench hand several times to drain blood from the hand.	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
7. Compressed the radial and ulnar arteries while patient was clenching the hand.	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
8. Lowered patient's arm and had them relax and open their hand. (This action alleviates tension which can cause inaccurate results.)	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
9. Released pressure on the ulnar artery and observed for brisk return of color to hand.	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
10. Assessor prompt: **"Describe potential results."** Student response need not be verbatim: "*Positive result: if color returns to hand in 14 seconds or less then procedure can be done. Negative result: if color returns to hand in 15 seconds or greater then procedure must be aborted. The other hand should then be assessed."*		**( ) Correct Response**	**( ) Incorrect Response**
Items 11-13 can be done in any order			
11. Prepared area with one CHG (chlorhexidine gluconate) in a back/forth and up/down motion until area was completely wet. Alternatively, an idophor swab can be used in concentric circles moving outward. *Student stated: "Solution stays on site until dry before puncturing the skin."*	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
12. Using a "Heparinized" syringe, removed residual air from syringe (if a cap was present, it was removed prior to removing air) and attached needle to syringe if it was not pre-attached.	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
13. Slightly adducted arm and dorsiflexed the wrist approximately 30 degrees. May prompt: **"How would you position the arm?"**	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
14. Palpated artery with index finger off non-dominant hand (without contaminating) proximal to planned puncture site.	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**

15. Inserted needle bevel side up at a 30-60 degree angle to the skin and advanced into artery.	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
16. Assessed for flashback of blood into the syringe, then allowed syringe to fill. (About 1cc. **Assessor should tell examinee that a smaller amount is sufficient for the purpose of the exam**. Assessor may prompt for aspiration.)	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
Items 17-20 can be done in any order			
17. Placed 2x2 gauze pad over puncture site, withdrew needle, and engaged needle safety device (if present).	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
18. Removed needle from syringe and disposed of it appropriately. Placed cap on syringe.	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
19. Assessor asks: **"How long should pressure be applied to puncture site?"** Student response: "*At least five minutes*."		**( ) Correct Response**	**( ) Incorrect Response**
20. Slowly inverted the syringe 10 times and then rolled between palms to mix.	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
Items 21-26 can be done in any order			
21. Disposed of used supplies in appropriate containers.		**( ) Done**	**( ) Not Done**
22. Placed Band-Aid on puncture site.		**( ) Done**	**( ) Not Done**
23. In the patient's presence, labeled the syringe and placed in a biohazard bag. Bag should not contain ice.	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
24. Assessor asks: **"What must you do once the procedure is completed?"** Student response: "*Document in the patient chart including location of puncture site, results of Allen test, and any complications.*"		**( ) Correct Response**	**( ) Incorrect Response**
25. Patient comfort was a priority.		**( ) Yes**	**( ) No**
26. Maintained cleanliness of site throughout the procedure.		**( ) Done**	**( ) Not Done**

Timeout

Note: student should state the listed items verbatim. They should not attempt to perform the timeout as a narrative.		
Items 1-7 can be done in any order		
1. Obtained written consent from patient or surrogate.	**( ) Done**	**( ) Not Done**
2. All team members participated in time out. (Verbalized if specific procedure involved more than one caregiver.)	**( ) Done**	**( ) Not Done**
3. Patient identity confirmed with minimum of two identifiers.	**( ) Done**	**( ) Not Done**
4. Procedure to be performed confirmed.	**( ) Done**	**( ) Not Done**
5. Patient positioning verified.	**( ) Done**	**( ) Not Done**
6. Procedure location (as in right arm, left wrist, etc.), including correct site/side being used, was verbalized.	**( ) Done**	**( ) Not Done**
7. Applicable pre-procedure medications, equipment, and imaging was set and confirmed.	**( ) Done**	**( ) Not Done**
Items 8-10 can be done in any order		
8. Timeout documented.	**( ) Done**	**( ) Not Done**
9. If the procedure to be done was changed, a new separate timeout was performed.	**( ) Done**	**( ) Not Done**
10. If protocol was abbreviated or bypassed for an emergent situation due to patient condition, appropriate documentation of these circumstances was made in patient's chart.	**( ) Done**	**( ) Not Done**

Escalation of Airway Support: Oxygen Administration

NASAL CANNULA			
Items 1-2 can be done in any order			
1. Connected end of tubing to oxygen regulator.		**( ) Done**	**( ) Not Done**
2. Turned on oxygen from 2-6 liters (Student stated range).	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
3. Placed nasal cannula on patient with prongs correctly placed in nares and tubing gently looped over ears.	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
SIMPLE MASK			
Items 4-5 can be done in any order			
4. Connected end of tubing to oxygen regulator.		**( ) Done**	**( ) Not Done**
5. Turned on oxygen from 6-12 liters (Student stated range).	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
6. Placed mask over patient's face and gently placed elastic strap around the back of the head.	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
NON-REBREATHER MASK			
Items 7-8 can be done in any order			
7. Connected end of tubing to oxygen regulator.		**( ) Done**	**( ) Not Done**
8. Turned oxygen to 12-15 liters (Student stated range).	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
9. Placed finger over vent until reservoir bag was full.		**( ) Done**	**( ) Not Done**
10. Placed mask over patient's face and gently placed elastic strap around the back of the head.	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
****NEBULIZER- This skill is being taught for educational purposes. It will not be tested.****			
1. Instilled medication into medication cup.		**( ) Done**	**( ) Not Done**
2. Attached mouthpiece or mask to medication cup.		**( ) Done**	**( ) Not Done**
3. Attached corrugated extension tubing (not needed for mask).	**( ) Done**	**( ) Done Incorrectly**	**( ) Not Done**
4. Connected one end of O_2 tubing to medication cup and the other to O_2 regulator.	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
5. Turned oxygen to 6-8 liters (Student stated range). Student verbalized: "*The medication should be misting."*	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
6. Placed mask over patient face and gently placed elastic strap around head OR placed mouthpiece in mouth.	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**

Escalation of Airway Support: BVM Ventilations

1. Assessor prompt: **"What equipment should be set out and checked for bag-mask ventilation?"** Correct response: *"Oxygen, ambu bag, oral & nasal airways, suction, and stethoscope."*		**( ) Correct Response**	**( ) Incorrect Response**
2. Washed hands.		**( ) Done**	**( ) Not Done**
Items 3-5 can be done in any order			
3. Put on gloves (verbalized if still wearing gloves from last skill).		**( ) Done**	**( ) Not Done**
4. Chose appropriately sized mask (fits from chin to bridge of nose) and attached to ambu bag.	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
5. Checked patient's mouth for foreign material and/or small or ill-fitting dental devices. (Note: Good-fitting full dentures may be left in place to get a better seal.)		**( ) Done**	**( ) Not Done**
Items 6-9 can be done in any order			
6. Oral airway (corner of mouth to angle of jaw) and nasal airway (opening of nare to tragus of ear) properly measured.	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
7. Assessor states; "**Your patient has a gag reflex**." Selected and inserted appropriate adjunct: nasal pharyngeal airway, lubricated generously and inserted with bevel toward the septum with final placement following airway anatomy.	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
8. Assessor states; "**Patient has no gag reflex.**" Selected and inserted appropriate adjunct: oral pharyngeal airway, curved up towards hard palate first then rotated 180 degrees at soft palate OR used tongue blade to depress tongue and inserted directly.	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
9. Attached oxygen with tubing and adjusted regulator to at least 15 liters per minute.	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
Items 10-12 can be done in any order			
10. Head-tilt, chin-lift performed.	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
11. Performed one-handed technique: thumb & index finger on body of mask, 3rd & 4th digits on jawbone, 5th digits at the angle of the jaw. Little or NO pressure to the sub-mandibular soft tissue.	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
12. Performed two-handed technique: (**Assessor should squeeze the bag for the student**.) Both thumbs & index fingers on body of mask, 3rd & 4th digits on jawbone, 5th digits at the angle of the jaw. Little or NO pressure to the sub-mandibular soft tissue.	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
Items 13-14 can be done in any order			
13. Assessor prompt, "**What needs to be checked now**?" Student response: "*Auscultation of chest by another person*."		**( ) Correct Response**	**( ) Incorrect Response**
14. Assessor prompt, "**What must you do once the procedure is completed**?" Student response: "*Document in the patient chart*."		**( ) Correct Response**	**( ) Incorrect Response**

Lumbar Puncture

Assessor Prompt: **"You will be performing a lumbar puncture. You are permitted to re-adjust by retracting the needle to the subcutaneous tissue. If no CSF is obtained after the second attempt, you will proceed with needle removal and continue with the checklist after verbalizing that you will elicit the help of a more experienced provider."**			
1. Washed hands.		**( ) Done**	**( ) Not Done**
Items 2-8 can be done in any order			
2. Put on exam gloves.		**( ) Done**	**( ) Not Done**
3. Checked that all necessary equipment was available and ready to use.		**( ) Done**	**( ) Not Done**
4. Student stated: "*I am confirming the patient with at least two identifiers and performing a timeout."*		**( ) Done**	**( ) Not Done**
5. Put on mask.		**( ) Done**	**( ) Not Done**
6. Identified correct puncture site (midline at L4-L5-S1). Note: L4 is located at the level of the iliac crest.	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
7. Opened LP kit carefully to maintain sterility.	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
8. Opened sterile glove package away from the LP kit.		**( ) Done**	**( ) Not Done**
9. Put on sterile gloves, maintaining sterile environment.	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
10. Prepped insertion point, using 3 iodine swabs in concentric circles moving outwards. (Note: cannot use chlorhexidine.)	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
11. Placed sterile drapes, maintaining sterility.	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
12. Properly administered local anesthetic along the planned tract of the spinal needle. 1. Using smaller needle, made a superficial wheal (ID injection). 2. Using same smaller needle, injected anesthetic at two progressively deeper levels through wheal. 3. Using a larger needle, injected anesthetic at two additional deeper levels. (ALWAYS drew back on syringe before injecting anesthetic into deep tissues.)	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
13. Verified proper fit of the stylette in the spinal needle by removing completely and reinserting.		**( ) Done**	**( ) Not Done**
14. Inserted the spinal needle with stylette into the puncture site with bevel up and at a 10-degree angle toward the umbilicus.	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**

15. Advanced the needle into the subarachnoid space. Assessor prompt: **"If boney tissue is felt, what would you do?"** Student response: "*Back needle out to the subcutaneous tissue, change the angle, and re-advance*."		**( ) Done**	**( ) Not Done**
Items 16-17 can be done in any order			
16. Tested for presence of spinal fluid by removing the stylette. Assessor prompt: "**How much fluid is collected?**" Student response: "*3-4ml.*"	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
17. Assessor prompt: "**If no fluid was seen, what would you do?**" Student response: "*I would re-insert the stylette, back the needle out to the subcutaneous tissue, change the angle, and re-advance the needle."* (If this was their second attempt with no success, the student response should be: "*I will continue with removal of the needle and go find a more experienced provider to assist me in my next attempt.*" Student should then proceed to step 18.)		**( ) Correct Response**	**( ) Incorrect Response**
18. Stylette placed into needle. Placed gauze over puncture site and removed needle. Note: stylette MUST be reinserted into needle before removal.	**( ) Done Correctly**	**( ) Done Incorrectly**	**( ) Not Done**
19. Applied Band-Aid to puncture site.		**( ) Done**	**( ) Not Done**
Items 20-21 can be done in any order			
20. Disposed of needle in sharps container.		**( ) Done**	**( ) Not Done**
21. Disposed of biohazardous materials in appropriate receptacle.		**( ) Done**	**( ) Not Done**
Items 22-24 can be done in any order			
22. Assessor prompt: "**What must you do once the procedure is completed?**" Student response: "*Document in the patient chart.*"		**( ) Correct Response**	**( ) Incorrect Response**
23. Patient comfort was a priority.		**( ) Yes**	**( ) No**
24. Maintained sterility throughout the procedure.		**( ) Done**	**( ) Not Done**