

Case 1 - Shock: You will be treating a 15kg 1-year-old presenting with tachycardia, hypotension, and fever.				
Task	Expected	Time to complete	Max time	# of attempts
1. Obtain supplies for IV placement in a 15kg child. Also obtain equipment for drawing a blood gas, CBC, and BMP. The equipment should include the following: Gloves, IV Kit, flush syringe, angiocatheter, purple /green tubes, blood gas syringe.	Find: <ol style="list-style-type: none"> <li>gloves</li> <li>IV Kit (tourniquet, gauze, small tegaderm, alcohol swab/chloraprep, microbore tubing)</li> <li>Flush syringe</li> <li>angiocatheter</li> <li>purple and green tubes</li> <li>Blood gas syringe</li> </ol>		1min	
2. Assemble and set up the necessary equipment for me to manually give a 300ml normal saline bolus via the push-pull method using a 3-way stopcock.	<ol style="list-style-type: none"> <li>Assemble NS drip, IV line, 3-way stopcock, and 60ml syringe.</li> </ol>		3 min	
3. Assemble equipment and start a dopamine infusion for a 15kg child at 5 mcg/kg/min.	<ol style="list-style-type: none"> <li>Find dopamine pre-mixed solution and start delivery at 5mcg/kg/min via pump.</li> </ol>		3min	
4. Prepare epinephrine infusion for a 15kg child at 0.1mcg/kg/min.	<ol style="list-style-type: none"> <li>Prepare epinephrine infusion (6mg (6ml) in 44 of D5W to total of 50ml).</li> <li>Program syringe pump to run at 0.1mcg/kg/min</li> <li>Label medication</li> </ol>		5 min	
Case 2 – Hypoglycemia. 2 cases of hypoglycemia for 2 different age children				
Task	Expected	Time to complete	Max time	# of attempts
1. Draw up 10ml of D10 for a 5kg 1-month-old with hypoglycemia (2ml D10/kg).	<ol style="list-style-type: none"> <li>Draw up and assemble 10ml of D10W for a 5 kg infant with hypoglycemia. (2ml D10/kg).</li> <li>Label medication</li> </ol>		1 min	
2. Draw up 20ml of D50 to a 20kg 4-year-old with hypoglycemia (1ml D50/kg).	<ol style="list-style-type: none"> <li>Draw up 20ml of D50 for a 20kg child with hypoglycemia (1ml D50/kg).</li> <li>Label medication</li> </ol>		2 min	
Case 3 – Respiratory Distress: You will be treating a 1-year-old weighing 10kg.				
Task	Expected	Time to complete	Max time	# of attempts
1. Attach bag-valve mask to oxygen on code cart and provide oxygen and ventilation to 10kg 1 y/o child mannequin.	<ol style="list-style-type: none"> <li>Assemble an appropriately sized bag valve mask system for child mannequin.</li> <li>Attach to oxygen at rate needed for an infant with respiratory failure (&gt;15L/min)</li> </ol>		1 min	

Task	Expected	Time to complete	Max time	# of attempts
2. Obtain Yankauer suction and 14 French flexible suction catheter.	a. Obtain and assemble Yankauer suction and a 14 French flexible suction catheter.		30 sec	
Case 4 – Respiratory Distress (Intubation): You will be treating a 1-year-old weighing 10kg by drawing up medications for intubation from the <b>airway box</b> . Please hand me a single unit dose for these medications.				
Task	Expected	Time to complete	Max time	# of attempts
1. Draw up 0.1mg of atropine for a 10kg child. Unit dosed	a. Draw up 1ml of 0.1mg/ml atropine . b. Label medication.		3 min	
2. Draw up 20mg of propofol for a 10kg child.	a. Draw up 20mg of propofol. b. Label medication		1 min	
3. Draw up 10mg of rocuronium for a 10kg child.	a. Draw up 10mg of rocuronium. b. Label medication		1 min	
4. Obtain equipment to place a NG tube in a 1 year-old patient. Including the following: NG tube, lubricant, 60ml syringe.	Find: a. NG tube b. Lubricant c. 60 ml Syringe		60 sec	
Case 5 – Ventricular fibrillation cardiac arrest: You will be treating a 4-year-old weighing 20kg.				
Task	Expected	Time to complete	Max time	# of attempts
1. Provide a firm surface underneath child mannequin in event of need for CPR.	a. Put bed into CPR mode, remove head of bed, and place under patient. -OR- b. Obtain backboard and place underneath child		30 sec	
2. Obtain supplies for an intraosseus catheter placement including the following: Gloves, Chlorhexidine, IV tubing, IO needle, securement device, saline flush.	Find: a. Gloves b. Chlorhexidine c. IV tubing d. Intraosseus needle e. Saline Flush f. Securement device		1 min	
3. Open pediatric defibrillator pads and describe placement. Do not remove plastic backing. Prepare defibrillator for delivery of 40 J shock.	a. Place defibrillator pads on child mannequin (plastic not removed) b. Charge defibrillator to 50J c. State "I'm clear, you're clear"		3 min	
4. Draw up 0.2mg of epinephrine for a 20kg child, (0.01mg/kg). Unit dosed	a. Draw up 0.2 mg epinephrine b. Label medication		2 min	
5. Draw up 20mg of lidocaine for a 20kg child (1mg/kg). Unit dosed	a. Draw up 20mg lidocaine b. Label medication		2 min	
6. Draw up 20 meq sodium bicarbonate for a 20kg child.	a. Draw up 20 meq sodium bicarbonate (40ml of 4.2% sodium bicarb or 20ml of 8.4% sodium bicarb) and label.		2 min	

7. Draw up 400mg calcium chloride for a 20kg child (20mg/kg)	<ul style="list-style-type: none"> <li>a. Draw up 400mg of calcium chloride in 4ml.</li> <li>b. Label medication</li> </ul>		2 min	
Case 6 – Supraventricular tachycardia: You will be treating a 5-year-old weighing 18kg.				
Task	Expectation	Time to complete	Max time	# of attempts
1. Draw up 1.8mg adenosine for an 18kg child, in a unit dose and prepare for IV delivery, and state how this would be administered (0.1mg/kg)	<ul style="list-style-type: none"> <li>a. Draw up 1.8mg of adenosine (0.6ml of 3mg/ml solution).</li> <li>b. State how adenosine would be given with a rapid flush using a 3-way stop-cock or 2-flush technique.</li> <li>c. Label medication</li> </ul>		2 min	
2. Assuming pads are already placed, charge defibrillator to 10J for synchronized cardioversion of an 18kg child.	<ul style="list-style-type: none"> <li>a. Charge defibrillator to 10 J for synchronized cardioversion.</li> <li>b. State “I’m clear, you’re clear”</li> </ul>		1 min	