

NWC EMSS – CE Post-Test Study-Questions – Mar 2013 – Cardiac Arrest Team Resuscitation

Resources to use when answering the following questions: (1) NWC EMSS SOP's, (2) CE handout, (3) video on YouTube – NWCEMS - cardiac arrest team resuscitation - <http://www.youtube.com/watch?v=CZWgUHDO1f4&feature=plcp>

1. What should be assessed & documented every 2 minutes during CPR? A O ₂ sat & ETCO ₂ B ECG rhythm & ETCO ₂ C Pulse & respiratory rate D Pulse, RR, ECG, O ₂ sat, & ETCO ₂	2. Why should ECG rhythm be assessed every 2 minutes during CPR? A Determine need for atropine B Determine need for intubation C Determine need for epinephrine D Determine need for defibrillation	3. During CPR when should the pulse be checked? A Every 2 minutes B After every defibrillation C When VF is seen on ECG monitor D When an organized rhythm is seen
4. What is the significance of a sudden, dramatic ETCO ₂ increase during CPR? A Pt needs to be hyperventilated B Pt is unlikely to be resuscitated C May signal of impending ROSC D Pt is in need of a dose of bicarbonate	5. Why should ETCO ₂ be assessed every 2 minutes during CPR? A Determine need for atropine B Determine need for intubation C Measure effectiveness of CPR D Determine need for defibrillation	6. What is the significance of ETCO ₂ that remains less than 10 for at least 20 minutes of CPR? A Pt is unlikely to be resuscitated B Tells you pt is being hyperventilated C May be a signal of impending ROSC D Pt is in need of a dose of bicarbonate
7. What best defines PEA? A IVR at any rate B IVR w/ rate less than 60 C Bradycardic rhythm w/ hypotension D Organized ECG rhythm, no pulse felt	8. In PEA, what should be documented in the "pulse" section of the e-PCR? A 0 B "PEA" C rate of ECG rhythm D 999	9. What is pseudo-PEA? A VF w/ a pulse B No pulse or myocardial contraction C Pulse palpable but no myocardial contraction D Pulse unable to be felt, yet myocardial contraction is present
10. What is the most common, treatable cause of PEA? A Acidosis B Hypovolemia C Hyperkalemia D Tension pneumothorax	11. How should an IVF bolus be given to a pt in PEA? A 200 mL over 10 minutes B 200 mL as rapidly as possible C 20 mL/kg over 30 minutes D 20 mL/kg as rapidly as possible	12. Pt in PEA, wt 175 lbs. How should IVF be given? A 200 mL - as fast as possible B 1600 mL - as fast as possible C 2000 mL - over 30 minutes D 2400 mL – over 30 minutes
13. What is the physiological significance of persistent VF? A Indicates poor quality CPR B Indicates higher pacemakers have failed C Indicates absence of coronary artery blood flow D Indicates heart muscle is receiving blood via coronary arteries	14. What is persistent/refractory VF? A VF that requires amiodarone to treat B VF that defibrillation does not abolish C VF that recurs despite successful defibrillation D VF that converts to asystole after defibrillation	15. What is meant by recurrent VF? A VF that requires amiodarone to treat B VF that defibrillation does not abolish C VF that recurs despite successful defibrillation D VF that converts to asystole after defibrillation
16. What can EMS providers do, <u>without an OLMC order</u> , to treat persistent / refractory VF? A Administer Lidocaine B Administer procainamide C Dual sequential defibrillation D Apply new set of defib pads in alternate position and defib using those pads	17. What is the purpose of defibrillation? A Stop all electrical activity B Stimulate SA & AV nodes to fire C Create artificial electrical impulse to stimulate ECG rhythm D Increase the amplitude of VF to make it more responsive to medication	18. What is standard placement for defib electrodes? A R of sternum, below clavicle and ~ V6 position in midaxillary line B R of sternum, below clavicle and V4 position C V4 position and below L scapula D V1-2 position and below L scapula
19. What is the most common type of re-arrest? A Asystole B Pulseless VT C Recurrent VF D Development of PEA	20. When is re-arrest most likely to occur? A Within a minute of ROSC B First 10 minutes after ROSC C 30 minutes after ROSC D 60-120 minutes after ROSC	21. What is best method to detect re-arrest? A Watch ECG monitor B Set monitor HR alarms C Continuous palpation of pulse D Set auto-BP to every 15 minutes

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<p>22. Post-ROSC, which has the highest priority?</p> <p>A Hyperventilate</p> <p>B Treat hypotension</p> <p>C Begin therapeutic hypothermia</p> <p>D Administer bicarb to treat acidosis</p>	<p>23. If post ROSC a pt is hypotensive, what should be done FIRST?</p> <p>A Perform a 12L ECG</p> <p>B Administer IVF while preparing dopamine</p> <p>C Begin therapeutic hypothermia</p> <p>D Hyperventilate to assure oxygenation</p>	<p>24. If post ROSC a pt has an ETCO₂ >55, what should be done?</p> <p>A Decrease ventilation rate</p> <p>B Immediately hyperventilate</p> <p>C Administer sodium bicarbonate</p> <p>D Assess rate & volume of assisted vent</p>
<p>25. What should be done if an IO line is not flowing well?</p> <p>A Manually twist/wiggle IO needle</p> <p>B Remove & reestablish in another site</p> <p>C Give 10-20 mL NS flush using syringe</p> <p>D Remove & reinsert needle in same site</p>	<p>26. Why may it be a good idea to establish an IV site - during CPR?</p> <p>A Meds are less effective when given IO</p> <p>B To give PM's more practice starting IV's</p> <p>C Establishing IV during CPR is a bad idea</p> <p>D May be used to treat PEA and give cold IVF for therapeutic hypothermia</p>	<p>27. What should be done after the administration of all IV/IO meds – during cardiac arrest?</p> <p>A Defib within 10 seconds</p> <p>B Give 20-50 mL IVF bolus</p> <p>C Check pulse in 30-60 seconds</p> <p>D Immediately check ECG rhythm</p>
<p>28. What is a contraindication for therapeutic hypothermia?</p> <p>A Trauma</p> <p>B VF arrest</p> <p>C Asystole arrest</p> <p>D Patients greater than 75 years old</p>	<p>29. At what temperature should cold IVF be kept for therapeutic hypothermia?</p> <p>A 4° F</p> <p>B 19° F</p> <p>C 39° F</p> <p>D 53° F</p>	<p>30. For therapeutic hypothermia, where should cold packs be placed?</p> <p>A Head & feet</p> <p>B Chest & abdomen</p> <p>C Neck, axilla, groin</p> <p>D Around arms and legs</p>
<p>31. When tx pt w/ therapeutic hypothermia, what should be done if pt is shivering?</p> <p>A Stop cooling the pt</p> <p>B Nothing, it is a desirable action</p> <p>C If SBP >90, administer midazolam</p> <p>D If SBP >90, administer Lidocaine for cerebral protection</p>	<p>32. How much cold IVF should be given to a 175 lb pt for therapeutic hypothermia?</p> <p>A 1000 mL</p> <p>B 1500 mL</p> <p>C 2000 mL</p> <p>D 2500 mL</p>	<p>33. How fast should cold IVF be given for therapeutic hypothermia?</p> <p>A As fast as possible, goal < 30 min</p> <p>B Over 60 minutes</p> <p>C Over 1-2 hours</p> <p>D Over 2-4 hours</p>
<p>34. When using pit-crew approach to team resuscitation, what is the responsibility of the 1st team member to reach the pt?</p> <p>A Airway management</p> <p>B Turn on monitor & attach electrodes</p> <p>C Check pulse, begin chest compressions</p> <p>D Establish vascular access</p>	<p>35. When using pit-crew approach to team resuscitation, what is the responsibility of the 2nd team member to reach the pt?</p> <p>A Airway management</p> <p>B Turn on monitor & attach electrodes</p> <p>C Check pulse, begin chest compressions</p> <p>D Establish vascular access</p>	<p>36. When using pit-crew approach to team resuscitation, what is the responsibility of the 3rd team member to reach the pt?</p> <p>A Airway management</p> <p>B Turn on monitor & attach electrodes</p> <p>C Check pulse, begin chest compressions</p> <p>D Establish vascular access</p>
<p>37. If only 2 PM's are on scene of a pt in cardiac arrest, what treatment should be delayed until additional help arrives?</p> <p>A CPR</p> <p>B Defibrillation</p> <p>C ResQPOD - ITD</p> <p>D Advanced airway & vascular access</p>	<p>38. What compression rate is associated with the best pt outcomes when using the ResQPOD - ITD?</p> <p>A 90-99</p> <p>B 100-109</p> <p>C 110-120</p> <p>D 120</p>	<p>39. Why are compressions performed too fast harmful?</p> <p>A Too fast tends to be too deep</p> <p>B Too fast compressions are not harmful</p> <p>C Decrease refilling of heart & coronary arteries</p> <p>D Tend to increase the incidence of rib fx and pneumothorax development</p>
<p>40. <u>Prior to adv airway placement</u>, what should the airway mgmt team member NOT do?</p> <p>A Insert OP/NPA</p> <p>B Squeeze bag-valve device</p> <p>C Maintain tight face-mask seal</p> <p>D Connect capno & RQP-ITD to BVM</p>	<p>41. Prior to placement of an advanced airway, when is the pt ventilated?</p> <p>A After every 10 compressions, compressor pauses to give 1 breaths</p> <p>B After every 15 compressions, compressor pauses to give 2 breaths</p> <p>C After every 30 compressions, compressor pauses to give 2 breaths</p> <p>D 10/min; asynchronous w/ compressions</p>	<p>42. When using pit-crew team resuscitation, <u>prior to adv airway placement</u>, whose responsibility is it to ventilate the pt?</p> <p>A Team leader</p> <p>B Airway mgmt team member</p> <p>C PM obtaining vascular access</p> <p>D Person performing compressions</p>

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<p>43. Which has the highest priority?</p> <p>A Defibrillation</p> <p>B Medications</p> <p>C Vascular access</p> <p>D Advanced airway</p>	<p>44. Which has the highest priority?</p> <p>A Intubation</p> <p>B Medications</p> <p>C Pupil check</p> <p>D Advanced airway</p>	<p>45. What procedure is being implemented to minimize medication errors?</p> <p>A Only senior PM on scene can give meds</p> <p>B Daily recitation of the 7 rights of medications</p> <p>C Take meds out of boxes, so labels easier to read</p> <p>D Meds should be checked by another PM - prior to administration</p>
<p>46. What is meant by “release completely” during CPR?</p> <p>A Do not touch pt during defibrillation</p> <p>B Do not squeeze BVM during compressions</p> <p>C Lift hand very slightly off chest wall between compressions</p> <p>D When ventilating w/ BVM, allow bag to fully reinflate</p>	<p>47. Why is releasing completely important?</p> <p>A Allows lung to fully deflate</p> <p>B It prevents too fast/deep compressions</p> <p>C Prevents rescuer injury during defibrillation</p> <p>D Allows venous return - heart to refill w/ blood</p>	<p>48. What should be done at the same time the ECG rhythm is checked?</p> <p>A Check pulse</p> <p>B Ventilate pt once</p> <p>C Ventilate pt twice</p> <p>D Rotate compressors</p>
<p>49. When defibrillating a pt, who should be the last to clear the pt?</p> <p>A Team leader</p> <p>B Person ventilating</p> <p>C Person giving medications</p> <p>D Person doing compressions</p>	<p>50. Should pt be ventilated right before defibrillation?</p> <p>A No, decreases defib effectiveness</p> <p>B Only if it is time to ventilate the patient</p> <p>C Yes, pause in compressions allows full ventilations</p> <p>D Yes, if more than 5 seconds have elapsed since last ventilation</p>	<p>51. What should be done immediately after defibrillating a pt?</p> <p>A Check pulse</p> <p>B Check ECG rhythm</p> <p>C Check ECG rhythm & pulse</p> <p>D Resume chest compressions</p>
<p>52. When during CPR should an advanced airway be placed?</p> <p>A As soon as possible</p> <p>B After first ECG rhythm check</p> <p>C Before beginning compressions</p> <p>D Not before 2nd ECG rhythm check</p>	<p>53. What is the most important factor to successful resuscitation?</p> <p>A Antidysrhythmic meds</p> <p>B Advanced airway placement</p> <p>C Frequent epinephrine administration</p> <p>D Minimizing interruptions in compressions</p>	<p>54. After placement of adv airway, how should compressions be performed?</p> <p>A Compressions should be continuous</p> <p>B Pause after every 10 compressions to give 1 breath</p> <p>C Pause after every 15 compressions to give 2 breaths</p> <p>D Pause after every 30 compressions to give 2 breaths</p>
<p>55. Why is it important to insert an OP/NPA prior to ventilating w/ a BVM?</p> <p>A It is not important.</p> <p>B Minimizes tongue obstruction</p> <p>C OP/NPA is only needed if unable to ventilate without placement</p> <p>D They are in place in case an advanced airway can not be placed</p>	<p>56. For the RQP - ITD to function, when is it most important to have a tight facemask seal?</p> <p>A During ventilations</p> <p>B During chest compressions</p> <p>C A tight face-mask seal is not important</p> <p>D RQP - ITD does not work w/ BVM ventilation, req placement of adv airway</p>	<p>57. Why is it important to insert an OP/NPA prior to ventilating w/ a BVM?</p> <p>A It is not important.</p> <p>B Helps prevent gastric distention</p> <p>C OP/NPA is only needed if unable to ventilate without placement</p> <p>D They are in place in case an advance airway can not be placed</p>
<p>58. Pt in VF given only epinephrine, what is the next drug that should be given?</p> <p>A Atropine</p> <p>B Vasopressin</p> <p>C Amiodarone</p> <p>D Repeat epinephrine</p>	<p>59. Pt in VF given only vasopressin, what is the next drug that should be given?</p> <p>A Atropine</p> <p>B Epinephrine</p> <p>C Amiodarone</p> <p>D Repeat vasopressin</p>	<p>60. Pt in VF given only epinephrine & amiodarone, what is the next drug that should be administered?</p> <p>A Atropine</p> <p>B Vasopressin</p> <p>C Epinephrine</p> <p>D Repeat amiodarone</p>