CARDIAC ARREST – “PIT CREW” CPR PROCEDURES

1. Clinical Indications
   a. Patient in cardiac arrest

2. Contraindications
   a. < 1 year or patient size prohibits access

3. Procedure
   a. Establish prior to arriving at patient’s side, the following responsibilities:
      b. Position 1 (patient’s right side)
         i. Assesses responsiveness / pulses
         ii. Initiates chest compressions immediately if needed
         iii. Alternates chest compressions with Position 2
         iv. May operate BVM when not performing chest compressions
         v. Assembles, applies & operates LUCAS device when available
      c. Position 2 (patient’s left side)
         i. Applies AED pads immediately
         ii. Operates AED after each 2 minute cycle of compressions
         iii. Alternates chest compressions w/ Position 1
         iv. May operate BVM when not performing chest compressions
         v. May assist with inserting / securing blind insertion airway device (King LT, LMA)
      d. Position 3 (patient’s head)
         i. Assembles and appropriately applies all equipment for airway and ventilations
            1. OPA, BVM, Suction, Oxygen, blind insertion airway device (King LT, LMA) and BIAD securing device, ETCO₂
         ii. Opens / clears airway, Suction as needed
         iii. Inserts & secures BIAD
            1. After 400 chest compressions during the 2nd AED rhythm analysis or when able
         iv. Ventilate at appropriate intervals w/ BVM
         v. Alternates w/ Positions 1 & 2 for chest compressions as needed
         vi. Operates BVM when not performing chest compressions
      e. Position 4 (if available - outside of CPR “Triangle”)
         i. Functions as a “Team Leader”, assesses quality of compressions / ventilations
ii. Assembles O2, BVM and ResQPod, Thomas Tube Holder (or other BIAD securing device)

iii. Turns on audible metronome (if available) and/or timing lights on ResQPod

iv. Gathers patient information (may delegate to Police Officer if available)

4. NOTES
   
a. Focus is on:
      
      i. **Minimally interrupted compressions** at a rate of 100 BPM
      
      ii. Appropriate depth and quality of compressions
      
      iii. Consider compressor fatigue and change compressors as needed
      
      iv. Team approach

b. Infants and small children may require modification of the procedure due to size

c. This procedure is based on a 4-person crew of providers

d. If there is only a 3-person crew, Position 3 will incorporate Position 4 responsibilities

e. When LUCAS device is available, Position 1-Assistant becomes the operator of LUCAS

f. If only a 2-person crew, follow standard CPR Protocol
“Pit Crew” CPR Positions

Position 4 –
• Turns on audible metronome if available
• Assembles BVM / O2 / ResQPod
• Gathers patient information
• Assess compressions / ventilations

Position 3 –
• Readies & Inserts BIAD
• Ventilate (1 breath every 6 seconds)

Position 2 –
• Applies AED patches
• Alternates compressions w/ Position #1
• Attach patches to AED after 2 minutes of CPR

Position 1 –
• Quick Pulse Check
• Chest Compressions (100/min)
• Alternates compressions w/ Position #2
• Operates LUCAS if available