CPR – Pit Crew

Clinical Indications:
- Patient in cardiac arrest

Contraindications:
- < 1 year or patient size prohibits access

Notes/Precautions:
- Focus is on:
  - Minimally interrupted compressions
  - Appropriate depth and quality of compressions
  - Consider compressor fatigue and change compressors as needed
  - Team approach
- Infants and small children may require modification of the procedure due to size
- This procedure is based on a 3-person crew of providers (if a 4th person is available, they should assist with setting up King Airway and rotate into a Compressor position
- If LUCAS device is available, Position 1 becomes the operator of LUCAS
- If there is only a 2-person crew, go to CPR Procedure

Procedure:
1. First arriving providers:
2. Establish prior to arriving at patient’s side, the following responsibilities:
   - **Position 1** (patient’s right side)
     - assesses responsiveness/pulses
     - initiates chest compressions immediately if needed
     - checks & pre-assembles BIAD (ventilates BVM when not performing compressions)
     - alternates chest compressions
     - ventilates BVM when not performing chest compressions
     - assembles, applies & operates LUCAS
   - **Position 2** (patient’s left side)
     - applies AED pads immediately
     - operates AED after each 2 minute cycle of compressions
     - alternates chest compressions with Position 1
     - ventilates BVM when not performing chest compressions
     - may assist with BIAD
   - **Position 3** (patient’s head)
     - assembles and appropriately applies all equipment for airway and ventilations (OPA, BVM, ITD, Suction, O2, BIAD, BIAD securing device, ETCO2)
     - opens/clears airway
     - inserts OPA
     - assembles and applies BVM & ITD
     - turns on timing light on ITD
     - maintains two-hand BVM mask seal
     - inserts & secures BIAD at appropriate time (after 400 chest compressions during 2nd AED rhythm analysis or when able)
   - **Position 4** (if available)
     - rotates and assists wherever needed
     - may function as a “team leader”
3. ALS Integration:
4. Establish prior to arriving at patient’s side, the following responsibilities:
   - **Code Commander** (Paramedic in control of monitor)
     - communicates/interfaces with providers performing CPR
     - sets up & operates monitor/defibrillator
     - makes all patient treatment decisions
   - **Intervention Paramedic** (positioned at feet when possible)
     - initiates IV/IO access
     - administers medications at the direction of the code commander
     - anticipates needs of code commander

Below is graphical representation of the Pit Crew CPR Procedure:

**CPR Procedure**

Person in Position 4 (P4) always just outside the “Triangle” of CPR
1. Team Leader Duties
2. May assist with BIAD preparation and securing if needed

Person in Position 3 (P3) always at patients Head
1. Opens/clears Airway and insert OPA
2. Assembles/apply BVM and ITD
3. Provides 2 hand mask seal
4. Inserts/secures BIAD (King) & ITD & ETCO2 after 400 Compressions

Person in Position 1 (P1) always on patients Right side
1. Initial patient assessment
2. Initiates 100 compressions
3. Ventilates in off cycle
4. BIAD Preparation in off cycle

Person in Position 2 (P2) always on patients Left side
1. Brings and operates AED
2. Alternates 100 compressions with P1
3. Ventilates in off cycle
4. Turns on AED after 200 Compressions
5. Assist with BIAD Preparation if needed

Advanced Provider in Position 6 (P6) always at an area outside the CPR “Triangle” near a lower leg and Operates the Monitor
1. Code Commander
2. Communicates/Interfaces with Team Leader
3. Makes all Patient treatment decisions

Advanced Provider in Position 5 (P5) always at an extremity outside the CPR “Triangle” near an extremity outside the CPR “Triangle” near an extremity
1. Initiates IV/IO access
2. Administers Medications requested by “Code Commander”