



## PROCEDURES PROC-01L

## IMPEDANCE THRESHOLD DEVICE (RESQPOD)

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### General:

- An Impedance Threshold Device (ResQPOD®) selectively impedes inspiratory gases from entering the lungs during the decompression phase (upstroke) of CPR. This generates a greater negative pressure in the thorax, allowing for an enhanced venous return to the heart. As a result of greater venous return, increased preload is accomplished, which generates a greater stroke volume during the subsequent compression phase (downstroke) of CPR, which leads to increased blood flow.

### Indication:

- VF/VT arrests
- PEA/Asystolic if <10 downtime from dispatch to arrival

### Contraindications:

- Traumatic Cardiac Arrest
- Patients <10 kg
- Flail Chest

### Procedure:

1. Begin CPR ensuring proper rate and depth, and allowing for complete chest recoil during the decompression phase of chest compressions
2. Select the airway adjunct (mask, endotracheal tube, SGA, etc.)
3. Attach Impedance Threshold Device (ResQPOD®) to the airway adjunct used above.
4. Attach the EtCO<sub>2</sub> detector between the ITD and the ventilation source (BVM or ventilator)
5. If ventilating with a mask (pt is not intubated):
  - Do not use the timing assist light
  - CPR continues at 30 compressions : 2 ventilations
  - Pause compressions to deliver the ventilations
6. If patient is intubated endotracheally or with a SGA:
  - Deliver a single one-second ventilation with each flash of the timing assist light
  - Do not pause compressions to deliver ventilations. Ventilations may be asynchronous to compressions.
7. REMOVE DEVICE ONCE ROSC IS OBTAINED