



# Bend Fire & Rescue EMS Performance Standards

## Capnography – 3.4.1

### Performance Objective

- To monitor end-tidal CO<sub>2</sub> levels in order to measure effectiveness of patient treatment.

### Equipment Needed

- PPE
- Cardiac Monitor / Defibrillator (E Series)
- ETCO<sub>2</sub> Cable w/ Sensor
- ETCO<sub>2</sub> Disposable Sensor Attachment
- ETCO<sub>2</sub> Non-Rebreather

### Procedure

- Take or verbalize appropriate body substance isolation precautions.
  - Examples: gloves, goggles, mask, gown, etc.
- When ETCO<sub>2</sub> monitoring is anticipated, prepare appropriate equipment while providing patient care.
- With cardiac monitor / defibrillator in "MONITOR" mode, press "Param" button at bottom of display screen.
- While in "Param" menu, select "ETCO<sub>2</sub>" and enable setting in order to warm-up ETCO<sub>2</sub> monitor.
- After warm-up process is complete, press "Wave 2" button at bottom of display screen in order to show ETCO<sub>2</sub> waveform on screen.
- Place appropriate ETCO<sub>2</sub> monitoring device on patient.
- Ideally, maintain ETCO<sub>2</sub> output between 35-45 mmHg.
  - In cases of suspected head trauma (signs of herniation), ETCO<sub>2</sub> should be maintained between 30-35 mm Hg.

**NOTE:** The following approximates the degree of ventilation.

- Greater than 45 mmHg – Hypoventilation
- 35-45 mmHg – Normal ventilation
- 30-35 mmHg – Hyperventilation
- Less than 30 mmHg – Aggressive hyperventilation should be avoided in all patients