

Bend Fire & Rescue EMS Performance Standards

Cardiac Pacing -3.4.3

Performance Objective

• To improve cardiac output and tissue perfusion through the electrical capture and control of the heart.

Equipment Needed

• PPE

ECG Electrodes

• Cardiac Monitor / Defibrillator (E-Series)

- Defibrillation Pads
- Sedative

- Procedure
 - A. Take or verbalize appropriate body substance isolation precautions.
 - Examples: gloves, goggles, mask, gown, etc.
 - **B.** Evaluate airway / breathing / circulation and determine patient is hemodynamically unstable.
 - Exhibits signs and symptoms of poor systemic perfusion.
 - **C.** Place ECG leads on patient for cardiac monitoring and confirm significant bradycardia is present.
 - Heart rate less than 50.
 - *Note: Confirm underlying causes of bradycardia have been considered and reversible causes treated.
 - **D.** Prepare equipment for transcutaneous cardiac pacing (TCP) and consider medications for treatment and/or sedation.
 - Do not delay pacing in an unstable patient presenting with signs / symptoms of poor perfusion.
 - *Note: Reference protocol for contraindications.
 - E. Locate appropriate anatomical location and apply defibrillator pads firmly on patient's skin.
 - F. Place cardiac monitor / defibrillator in "PACER" mode and begin capture sequence.
 - Set "PACER RATE" at 60-80 bpm.
 - Increase "PACER OUTPUT" in 20mA increments until electrical capture is obtained.
 - Electrical capture is evident when each ventricular complex consistently and immediately follows a
 pacer spike.
 - *Note: Ideally, energy setting should be as low as possible while maintaining electrical capture.
 - G. Confirm mechanical capture.
 - Mechanical capture is evident when a pulse is generated simultaneously with paced complexes.
 - H. Immediately evaluate the effectiveness of TCP through the assessment of patient's condition.
 - I. If not previously provided, administer sedative.
 - J. Continually reassess patient condition.