## Hillsborough County Fire Rescue STANDING ORDERS AND PROTOCOL

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Subject: CARDIAC PACING (TRANSCUTANEOUS CARDIAC PACING, TCP)

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1. Connect EKG electrodes to the EKG cable and apply to the patient.

- a. In order to minimize artifact, apply electrodes to appropriate areas on the patient's torso.
- Select the lead (I, II, or III) that demonstrates the most prominent R-wave with a minimum of electrical noise and motion artifact.
  - a. The monitor/defibrillator/pacer monitors the intrinsic EKG rhythm and inhibits the pacing stimulus when the intrinsic rate of the patient's heart is greater than that set on the machine.
  - b. If the EKG leads are detached or if the machine cannot sense a QRS complex, it will not pace.
- 3. Connect the pacing cable.
- 4. Connect pacing electrodes to the pacing cable, remove the protective plastic from the electrode, and position the pacing electrodes on the patient.
- 5. The patient's skin should be clean and dry.
  - a. DO NOT use alcohol or Betadine® to prepare the skin as this may cause arcing and increased patient discomfort.
- 6. Avoid placement over a bony prominence such as the scapula or spine.
- 7. Start at 20 milliamps and increase in 20 milliamp increments until mechanical capture is obtained as evidenced by a pulse.
- 8. Once you achieve mechanical capture DO NOT reduce the current.
  - a. On patients with large breasts it may be necessary to position the black anterior (-) electrode slightly more medial.
  - In very obese patients, you should attempt to place the electrodes on a flat area of skin if possible.
    - i. If fatty rolls preclude good adherence, spread the tissue apart.
  - c. In thin patients, follow the contour of the ribs and the intercostal spaces when pressing the electrodes in place.
  - d. Use pediatric pacing pads when appropriate.