TRANSCUTANEOUS PACING - TCP

 INDICATIONS: This procedure should be used on patients experiencing symptomatic bradycardia (see Adult and Pediatric Bradycardia - #7225 and #7315). This includes patients with "failed" pacemakers. Note: Bradydysrhymias in children are usually due to respiratory causes

Consider alternate causes of the dysrhythmia and treat appropriately prior to initiation of TCP:

- ► Hypoxia
- ▶ Trauma
- ▶ Drug overdose
- ► Electrolyte imbalance (not treatable in the field setting)
- ► Hypothermia
- 2. **RELATIVE CONTRAINDICATIONS** unless approved by the Base Physician

In general, TCP is not effective in:

- 2.1 Asystole
- 2.2 Bradyasystolic arrest
- TCP should not be delayed pending IV access or while waiting for atropine to take effect in an unstable patient.TCP should be initiated simultaneously with atropine in this setting

4 PROCEDURE:

- 4.1 Consider administering midazolam (see sedation procedure) and/or morphine sulfate 1-2 mg IV. Decrease dose of one or both agents with concomitant midazolam administration or age > 65
- 4.2 If unable to start IV, consider administering IM
- 4.3 Place pads on the patient's chest and back
- 4.4 Set initial TCP rate at 80 beats per minute (bpm)
- 4.5 Begin output at 0 milliamps (mA). Increase by 10 mA until capture/pulses are noted. Once capture is confirmed, continue pacing at a slightly higher output level (10%)
- 4.6 If capture is maintained but the patient remains symptomatic of inadequate tissue perfusion (BP < 90 systolic, altered level of consciousness) consider increasing **the rate** by 10 bpm until 100 bpm is reached
- 4.7 If perfusion remains a problem, consider dopamine. Contact the Base Physician for consultation if perfusion remains a problem and/or alteration of TCP settings