

	<b>COUNTY OF SACRAMENTO EMERGENCY MEDICAL SERVICES AGENCY</b>	Document #	8810.13
	<b>PROGRAM DOCUMENT:</b>  <b>Transcutaneous Cardiac Pacing</b>	Initial Date:	01/07/99
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Signature on File

EMS Medical Director

Signature on File

EMS Administrator

**Purpose:**

- A. To establish a procedure standard for utilizing Transcutaneous Cardiac Pacing (TCP).

**Authority:**

- A. California Health and Safety Code, Division 2.5
- B. California Code of Regulations, Title 22, Division 9

**Indications:**

- A. Symptomatic Bradycardia per PD# 8024 – Cardiac Dysrhythmias policy:
  - Heart rate < 50 beats per minute (bpm) documented by cardiac monitor
  - Systolic blood pressure < 90 mm Hg,
  - Decreased sensorium
  - Diaphoresis
  - Chest pain
  - Capillary refill > two seconds
  - Cool extremities
  - Cyanosis

**Relative Contraindication:**

Hypothermia

**Procedure:**

- A. Assemble equipment.
- B. Explain the procedure to the patient.
- C. Connect the patient to a cardiac monitor and obtain a 12-lead ECG rhythm strip, if possible, or Lead II rhythm strip.
- D. Cardiac Monitoring per PD# 8024 – Cardiac Dysrhythmias
- E. Select the pacing mode to asynchronous or non-demand mode.
- F. Set the pacing rate to 80 bpm.
- G. Increase the millamps (mA) to mechanical capture or lowest setting possible. Activate the pacing device and increase the millamps as tolerated. Observe the patient and ECG until mechanical capture is achieved. Mechanical capture is the point when the pacemaker produces a pulse with each QRS complex.
- H. If needed, provide for patient sedation as described PD# 8024 – Cardiac Dysrhythmia.
- I. Continue monitoring the patient and anticipate further therapy.

**Special Notes:**

- A. Symptomatic Type II 2nd-degree blocks and 3rd-degree blocks should have TCP implemented without delay.

**Cross Reference:** PD# 8024 – Cardiac Dysrhythmias  
PD# 8018 – Overdose and/or Poisoning