

POLICIES AND PROCEDURES

POLICY: 555.14

TITLE: Pediatric Symptomatic Bradycardia

EFFECTIVE: 7/1/2018 REVIEW: 7/2023

SUPERCEDES:

APPROVAL SIGNATURES ON FILE IN EMS OFFICE

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PEDIATRIC SYMPTOMATIC BRADYCARDIA

I. AUTHORITY: Health and Safety Code, Division 2.5, California Code of Regulations, Title 22, Division 9

II. PURPOSE: To serve as the treatment standard for EMRs, EMTs, AEMTs and Paramedics within their scope of

practice.

III. PROTOCOL: Most bradycardias in children are due to hypoxia. Bradycardia may also be secondary to sinus node

disease, increased parasympathetic tone or drug effects (e.g., digitalis, beta-blockers, or calcium antagonists), hypothermia or head injury. Heart rate is below 60 beats per minute, with associated signs/symptoms of low cardiac

output. Never treat any bradycardia if the patient does not have serious symptoms.

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ASSESS CAB

OXYGEN NOTE: Most bradycardias in children are due to hypoxia.

SECURE AIRWAY

Using the simplest effective method. A BLS airway with objective evidence of good

ventilation and oxygenation is adequate and acceptable. Refer to Policy 554.00 -

General Protocols.

MONITOR

IV/IO ACCESS TKO with microdrip tubing and volume control chamber.

ASSESS For:

1. Heart rate: less than 80 beats per minute in infants (less than 1 year);

less than 60 beats per minute in children (1 - 12 years).

AND

2. Signs of poor perfusion (delayed capillary refill, diminished distal pulses, cool

extremities, altered level of consciousness) or respiratory distress.

CPR If heart rate less than 80/minute in infant or less than 60/minute child.

EPINEPHRINE 0.01 mg/kg of 1:10,000 IV/IO. Repeat every 3 minutes until above heart rate target or

signs of poor perfusion or respiratory distress have improved.

CONSIDER

ATROPINE 0.02 mg/kg IV/IO. Minimum dose 0.1 mg. Maximum single dose 0.5 mg. May be

repeated once in 3 minutes.