

8.03 PEDIATRIC DYSRHYTHMIA: BRADYCARDIA EMSAC January 2024

BLS Treatment	
•	Start CPR if HR <60 bpm AND evidence of hypoperfusion (hypotension, altered mental status)
•	Position of comfort.
•	NPO
•	Assess circulation, airway, breathing, and responsiveness.
•	If patient is unresponsive, oxygen therapy to include high flow oxygen and positive pressure ventilation as needed
•	If patient remains unresponsive despite oxygenation and positive pressure ventilation, begin CPR at 15:2
•	_If patient is responsive <u>after oxygenation</u> , but still symptomatic consider Oxygen with appropriate airway adjuncts and BVM as indicated, support ABCs, observe and frequent reassessments.
•	Treat underlying reversible causes.
•	Provide Spinal Motion Restriction as indicated or position of comfort as indicated.
•	Appropriately splint suspected fractures/instability as indicated.
•	Bandage wounds/control bleeding as indicated.
ALS Treatment Current American Heart Association Guidelines concerning Emergency Cardiac Care assessments and interventions shall always take precedence over local protocols when there is a conflict concerning techniques of resuscitation.	
•	Advanced airway if indicated.
•	IV Normal Saline TKO, preferably at antecubital fossa. _If unstable, IO <u>if unable to establish an IV</u> after 1 min of IV attempts .
<u>.</u>	Epinephrine 0.01mg/kg IVP/IO (0.1mg/mL) maximum single dose 1mg OR
•	Atropine if suspected increased vagal tone or primary AV block 0.02 mg/kg IVP/IO.
	Minimum dose 0.1mg, maximum single dose 0.5mg
•	Consider Transcutaneous pacing (Link to 7.18) if refractory to medications
•	-If agitated during TCP and not hypotensive, may administer Midazolam

- 30mL/kg. Pediatric: 20mL/kg IV/IO. May repeat up to 60mL/kg
- See Pediatric Cardiac Arrest protocol 8.07 if pulses are not present
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Comments

SYMPTOMATIC BRADYCARDIA DEFINITION: Pulse rate < 60 BPM and any of the following:

- Unresponsive
- Hypotension.
- Signs of shock/hypoperfusion.
- •____Acutely altered mental status, syncope or near syncope.

REVERSIBLE CAUSES : <u>Hypoxia, Hypothermia, Toxins/medications*</u>Hydrogen ion, Hypovolemia, Hypokalemia, Hyperkalemia, Hypoglycemia, Tamponade (cardiac) Tension pneumothorax, Thrombosis (pulmonary), Thrombosis (cardiac) *<mark>Possible Causes_* Most common</mark>