

BRADYCARDIA (P03)

Bradycardia is characterized by a decrease in the rate of atrial depolarization due to slowing of the sinus node. The rhythm is regular or slightly irregular. Bradycardia is defined as heart rate < 80 in infants (< 1 year of age) and < 60 in children (1 year to 12 years of age). QRS complexes are normal, each preceded by a P wave.

NOTE: Most bradycardia in children is due to hypoxia.

	F	E	O	P	D
ASSESSMENT: look for signs of poor perfusion or respiratory distress (delayed capillary refill, diminished distal pulses, cool extremities, ALOC).	X	X	X	X	
OXYGEN: 100% by non-rebreather mask or blow-by.	X	X	X	X	
BLS AIRWAY: okay if airway patent. Support ventilations with appropriate airway adjuncts.	X	X	X	X	
SUPRAGLOTTIC AIRWAY: if GCS is < 8 and not rapidly improving.				X	
PULSE OXIMETRY: apply and monitor.		X	X	X	
CAPNOGRAPHY: apply and monitor if SGA has been placed.				X	
ECG MONITOR: lead placement may be delegated. Treat as indicated.				X	
*CONSIDER HP-CPR: if heart rate < 60, despite oxygen and ventilations if signs of poor perfusion.	X	X	X	X	
VASCULAR ACCESS: IV/IO, rate as indicated.				X	
FLUID BOLUS: NS 20 mL/kg as indicated. Reassess after each bolus.				X	
EPINEPHRINE: 0.01 mg/kg of 1:10,000 (0.1 mg/mL) IV/IO. Repeat every 3-5 minutes. Maximum of 1 mg per administration.				X	
ATROPINE: 0.02 mg/kg IV/IO. May be repeated once. Minimum dose of 0.1 mg. Maximum single dose 0.5 mg.				X	

***During CPR**

- Push hard (1/3 of Anterior-Posterior depth) and fast (at least 100/min)
- Ensure full chest recoil
- Minimize interruptions in chest compressions
- One cycle of CPR: 15 compressions then 2 breaths; 5 cycles = 1 – 2 min
- Avoid hyperventilation
- After advanced airway placement, give continuous chest compressions

CONSIDER CAUSES AND TREAT PER TREATMENT GUIDELINES:

- | | |
|------------------------|------------------------|
| • Hypovolemia | • Acidosis |
| • Hypoglycemia | • Toxins |
| • Hypoxia | • Cardiac Tamponade |
| • Hypothermia | • Tension pneumothorax |
| • Hypo or hyperkalemia | |

EFFECTIVE: November 1, 2023

Provider Key: F = First Responder/EMR
P = Paramedic

E = EMT O = EMT Local Optional SOP
D = Base Hospital Physician Order Required