Bradycardia - Adult

EMT/ADVANCED EMT STANDING ORDERS



- Routine Patient Care.
- Consider the underlying causes of bradycardia (e.g., acute coronary syndrome, hyperkalemia, hypoxia, hypothermia).
- 12 Lead ECG if available.

PARAMEDIC STANDING ORDERS

If symptomatic and hemodynamically unstable:

- Consider atropine 0.5mg IV every 3 5 minutes to a total of 3mg.
- If atropine is ineffective:
 - Consider transcutaneous pacing.
 - Administer procedural sedation prior to or during transcutaneous pacing, if feasible:
 - Midazolam 2.5mg IV/IN, may repeat once in 5 minutes; or 5 mg
 IM, may repeat once in 10 minutes, OR
 - Lorazepam 1 mg IV, may repeat once in 5 minutes; or 2mg IM, may repeat once in 10 minutes, OR
 - Diazepam 2mg IV; may repeat once in 5 minutes.
- Epinephrine infusion (Dilute epinephrine 1mg in 1000 mL 0.9% normal saline for 1 microgram/mL) 2 -10 micrograms/minute via pump, **OR**
- Norepinephrine (4mg in 1000 mL 0.9% normal saline for 4 microgram/mL)
 1 30 micrograms/minute via pump, OR
- Dopamine infusion 2 10 micrograms/kg/minute, OR
- Contact Medical Control for expert consultation.

Other Causes:

- For symptomatic beta blocker or calcium channel blocker overdose, consider glucagon 5mg IV over 3 – 5 minutes.
- For suspected hyperkalemia with ECG changes or symptomatic calcium channel blocker overdose consider:
 - Calcium gluconate 2 grams IV over 5 minutes, with continuous cardiac monitoring OR
 - Calcium chloride (10% solution) 1 gram IV over 5 minutes, with continuous cardiac monitoring.



For calcium chloride administration, ensure IV patency and do not exceed 1 mL per minute.

PEARLS:

 Hyperkalemia should be suspected in dialysis or renal failure patients with ECG changes such as tall peaked T waves, loss of P waves, QRS widening and bradycardia.



