



EMSA-Intermediate Treatment Protocol 5211

Dysrhythmia with a Pulse Symptomatic Sinus Bradycardia

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Symptomatic sinus bradycardia is a heart rhythm <60 bpm accompanied by serious signs or symptoms. For the purpose of this protocol, serious signs or symptoms must include a systolic blood pressure <90 **and** chest pain or decreased level of consciousness which is most likely caused by the slow heart rate. This protocol is also used for symptomatic second and third degree heart block rhythms.

- A. Perform **MAMP Protocol 5201**.
- B. Begin preparation for external transcutaneous pacing.

C. If heart rate is <40 contact Medical Command for authorization to administer:

1. Atropine 1.0 mg rapid IV bolus.
2. If rhythm and symptoms continue, atropine 1.0 mg IV every 3-5 minutes to total dose of 3 mg or 0.04 mg/kg.
3. If rhythm and symptoms continue, contact MCP and consider external transcutaneous pacing **per MCP order**.
4. Further treatment **per MCP order**.



D. If heart rate is >40 but <60:

1. **Contact MCP** to consider atropine 0.5 to 1.0 mg IV.



2. Prepare for transport.

3. If rhythm and symptoms continue, **per order of MCP** repeat atropine 0.5 to 1.0 mg IV every 3 to 5 minutes to total maximum dose of 3 mg or 0.04 mg/kg.
4. If rhythm and symptoms continue, contact MCP and consider external transcutaneous pacing **per MCP order**.





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- E. If heart rate increases to 60 or greater with persistent hypotension (BP <90 systolic), go to **Shock Protocol 5108 - Section E, Cardiogenic Shock.**
- F. If conversion occurs:

1. Monitor vital signs and treat new rhythm **per order of Medical Command** and appropriate protocol.



2. Transport and notify Medical Command.