



EMSA-Intermediate Treatment Protocol 5303

Pulmonary Edema

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Patients experiencing pulmonary edema will have rales or crackles on lung exam and JVD and/or peripheral edema and/or frothy sputum. Remember that rales can also be heard in patients with lung infections who are not in pulmonary edema and furosemide is not appropriate treatment for these patients.

- A. Perform **MAMP Protocol 5201** as appropriate.
- B. If blood pressure is >100 systolic and patient has rales and JVD:
 - 1. Administer nitroglycerine 0.4 mg (1/150 gr) SL.

2. **Contact MCP** and prepare for transport.



- 3. If **ordered by MCP** consider repeating NTG q 5 minutes x 3 doses as long as blood pressure remains > 100 systolic.
- 4. If patient **is not** already taking furosemide (*Lasix*), then administer furosemide 40 mg IV **per order of MCP**.
- 5. If patient **is** already taking furosemide, then administer furosemide 80 mg IV **per order of MCP**.
- 6. **If ordered by MCP**, administer morphine sulfate 2 to 4 mg IV.
- 7. **If ordered by MCP**, administer albuterol nebulizer 2.5 mg with oxygen 8 - 10 LPM.
- 8. Transport with **further orders per MCP**.



- C. If blood pressure is <100 systolic and patient has rales and JVD:
 - 1. Expedite transport and monitor vital signs closely.

2. **Contact Medical Command for further orders per MCP.**



- D. If blood pressure is <90 systolic, refer to **Shock Protocol 5108 - Section E, Cardiogenic Shock**.