CONGESTIVE HEART FAILURE / PULMONARY EDEMA

ALL PROVIDERS

☐ Focused history and physical exam Determine whether the patient (male or female) has taken erectile dysfunction medications such as Viagra, Levitra or Cialis within the last 24 hours. Assess blood glucose level. ☐ Continuous cardiac monitoring, ETCO2, 12 lead ECG, and pulse oximetry monitoring, when available ☐ Treatment Plan Maintain airway; assist with breathing as necessary, provide oxygen as needed to target SpO2 90-94%. ☐ Key Considerations Do not use nitroglycerin if the patient has taken erectile dysfunction medications in the last 24 hours. In pregnant patients of >20 weeks gestation: Place wedge-shaped cushion or multiple pillows under patient's right hip and manually displace the uterus. Pediatric lowest acceptable systolic blood pressures are birth to 1 month = 60mmHg, 1 month to 1 year = 70mmHg, 1 year to 10 years is = 70mmHg + (age x 2) and over 10 years = 90mmHg. ADULT PEDIATRIC (<15 years of Age) NOTE: Pediatric weight based dosing should not exceed Adult dosing. **EMT EMT** ☐ Assist patient with prescribed nitroglycerin SL ☐ **CPAP/BiPAP** – ONLY use when the patient is every 5 minutes, up to 3 doses, as long as on the machine at home. Maintain home dyspnea or chest pain persist and SBP > 90 settings and bring machine with the patient. If unable to adequately ventilate, return to BVM mmHg Do not administer nitroglycerin if the patient (male or female) has taken erectile dysfunction medications within the last 24 hours ☐ **CPAP/BiPAP** – Consider when the patient is awake, cooperative and SBP>90 mmHg Explain the procedure to the patient **CPAP** - Provide 10 L/min oxygen and PAP at 10 cm H2O **BIPAP** – Provide 10 L/min oxygen and IPAP at 10 cm H2O with EPAP at 5 cm H2O Contact OLMC to discuss further settings and treatment above the initial setup. **AEMT AEMT** ☐ Vascular access and fluid. □ Vascular access and fluid. IV access prior to nitrates is preferred if possible Limit fluid bolus to 250–500 mL NS ☐ Nitroglycerin 0.4 mg SL every 5 minutes (max of 3 doses) if dyspnea or chest pain persist and SBP >90 mmHg.

PARAMEDIC

□ Push Dose Epinephrine 10mcg as needed to maintain a SBP >100 mmHg after fluid bolus.
□ Epinephrine 2–10 mcg/min IV/IO infusion for hypoperfusion. Titrate to maintain a SBP >100 mmHg.
□ Norepinephrine initial dose: 0.05 – 1 mcg/kg/min IV/IO for hypoperfusion. Titrate to maintain a SBP > 100 mmHg. For patients in refractory shock: 8-30 mcg/minute.

PARAMEDIC

- Pediatric Push Dose Epinephrine 1mcg/kg (dose in appendix) as needed to maintain a SBP>70 + (age in years x 2) mmHg after fluid bolus.
- Epinephrine 0.1–1mcg/kg/min IV/IO infusion for shock. Titrate to maintain a SBP >70 + (age in years x 2) mmHg.