

Shortness of Breath – Pulmonary Edema

BLS Procedures

Administer oxygen as indicated

Initiate CPAP/BiPAP for moderate to severe distress

ALS Standing Orders

Nitroglycerin

- SL or lingual spray – 0.4 mg q 1 min x 3
 - Repeat 0.4 mg q 2 min
 - No max dosage
 - Hold for SBP < 100 mmHg

If not already performed by BLS personnel, Initiate CPAP/BiPAP for moderate to severe distress

Perform 12-lead ECG (Per VCEMS Policy 726)

IV/IO access

If wheezes are present and suspect COPD/Asthma, consider:

- **Albuterol**
 - Nebulizer – 5 mg/6 mL
 - Repeat as needed

If patient presents or becomes hypotensive

- Epinephrine 10 mcg/mL
 - 1mL (10 mcg) q 2 minutes, slow IV/IO push
 - Titrate to SBP of greater than or equal to 90 mm/Hg

Base Hospital Orders only

Consult with ED Physician for further treatment measures

Additional Information:

- Refer to VCEMS Policy 735 for additional information on preparing push dose epinephrine solution.
- Nitroglycerin is contraindicated when phosphodiesterase inhibitor medications [Sildenafil (Viagra and Revatio), Vardenafil (Levitra), and Tadalafil (Cialis)] have been recently used (Viagra or Levitra within 24 hours; Cialis within 48 hours). These medications are most commonly used to treat erectile dysfunction or pulmonary hypertension. In this situation, NTG may only be given by ED Physician order.

Effective Date: January 3, 2023
Next Review Date: November 30, 2024

Date Revised: November 10, 2022
Last Reviewed: November 10, 2022



EMS Medical Director