

Chest Pain – Acute Coronary Syndrome

BLS Procedures

Administer oxygen if dyspnea, signs of heart failure or shock, or SpO₂ < 94%
Assist patient with prescribed Nitroglycerin as needed for chest pain

- Hold if SBP less than 100 mmHg

ALS Standing Orders

Perform 12-lead ECG

- Expedite transport to closest STEMI Receiving Center if monitor interpretation meets the manufacturer guidelines for a positive STEMI ECG and/or physician states ECG is positive for STEMI.
- Notify Base hospital within 10 minutes of monitor interpretation of a positive STEMI ECG
- Document all initial and ongoing rhythm strips and ECG changes

For chest pain consistent with ischemic heart disease:

- **Aspirin**
 - PO – 324 mg
- **Nitroglycerin (DO NOT administer if ECG states inferior infarct)**
 - SL or lingual spray – 0.4 mg q 5 min for continued pain
 - No max dosage
 - Maintain SBP greater than 100 mmHg

IV/IO access

If pain persists and not relieved by NTG:

- **Pain Control**– per policy 705.19
 - Maintain SBP greater than 90 mmHg

If patient presents or becomes hypotensive:

- Lay Supine
- **Normal Saline**
 - IV/IO bolus – 500 mL -may repeat x1 for total 1000 mL.
 - Unless CHF is present

If hypotensive (SBP less than 90 mmHg) and signs of CHF are present or no response to fluid therapy*:

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

For ventricular irritability resulting in runs of ventricular tachycardia (>3 consecutive ventricular complexes):

- **Amiodarone IV/IOPB - 150 mg in 50 mL D5W infused over 10 minutes**

Base Hospital Orders Only

Consult with ED Physician when orders are needed for interventions within scope but not addressed in policy.

Additional Information:

- Nitroglycerin is contraindicated in inferior infarct or 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. NTG then may only be given by ED Physician order
- Appropriate dose of Aspirin is 324mg. Aspirin may be withheld if able to confirm that patient has received appropriate dose prior to arrival. If unable to confirm appropriate dose, administer Aspirin, up to 324mg.

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VCEMS Medical Director