



## CHEST PAIN-SUSPECTED CARDIAC ISCHEMIA

**Effective:** January 1, 2021  
**Replaces:** January 1, 2020  
**Review:** January 1, 2023

### 1. BLS Treatment

- 1.1. Routine Medical Care – Adult **(700-S04)**
  - 1.1.1. **Oxygen** – titrate as appropriate
- 1.2. **Aspirin 324mg PO** (chewable) as soon as possible
- 1.3. Treat for signs and symptoms of shock as necessary **(700-A10)**
- 1.4. May assist patient in taking his/her own Nitroglycerin if patient is alert, oriented and had a SBP greater than 100mmHg

### 2. ALS Treatment

- 2.1. **Vascular Access (IV)**, TKO
- 2.2. Obtain **12 Lead ECG**, if 12 Lead ECG states “**STEMI**” or “**Acute MI Suspected**”:
  - 2.2.1. Determine closest most appropriate STEMI receiving center
  - 2.2.2. Transmit the 12 Lead ECG to the selected STEMI Center, when the first transmission capable monitor arrives, regardless of ETA **(700-M09)**
- 2.3. **Nitroglycerin 0.4mg SL**
  - 2.3.1. Repeat every 3 minutes, max of 3 doses, for continued pain and discomfort, and if SBP remain greater than 100 mmHg
  - 2.3.2. If the patient becomes hypotensive after the administration of Nitroglycerin:
    - 2.3.2.1. Place the patient in shock position, if possible
    - 2.3.2.2. Consider **250ml Fluid bolus**
    - 2.3.2.3. If no improvement after 5 minutes, treat according to **(700-A10)**
- 2.4. **Morphine Sulfate 5mg slow IV**, if systolic blood pressure is greater than 100 mmHg and; if still symptomatic after 3 nitroglycerin doses, or if nitroglycerin is contraindicated
  - 2.4.1. **May repeat Morphine Sulfate 5mg IV** every 3-5 minutes, to a max of 20 mg

### 3. Sympathomimetic Related Chest Pain

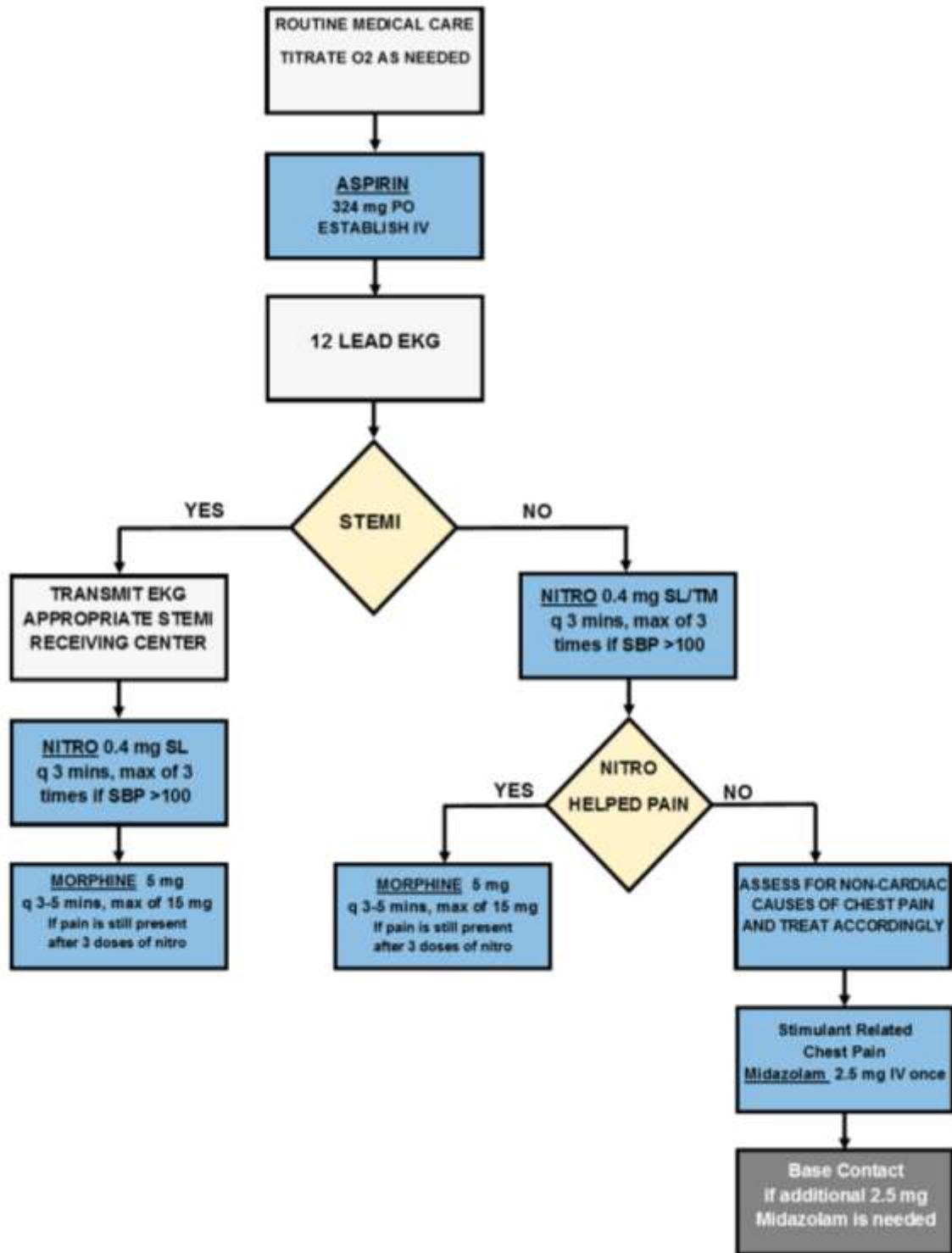
- 3.1. If chest pain is related to sympathomimetic use:
  - 3.1.1. AND is not relieved with nitroglycerin or morphine;
  - 3.1.2. AND sustained tachycardia;
  - 3.1.3. Administer **Midazolam 2.5mg IV**
- 3.2. **BASE CONTACT**: if additional Midazolam above 2.5mg is needed

### 4. Special Considerations

- 4.1. Administer nitroglycerin with extreme caution to patients with an Inferior Wall MI
- 4.2. To avoid hypotension, withhold nitroglycerine if patient has taken erectile dysfunction medication within specified time frames:
  - 4.2.1. Viagra (sildenafil) or Levitra (vardenafil) within past 24 hours
  - 4.2.2. Cialis (tadalafil) within past 36 hours
  - 4.2.3. Revatio (sildenafil) within 24 hours
  - 4.2.4. Stendra (avanafil) within 24 hours



5. Chest Pain – Suspected Cardiac Ischemia Treatment Flow Chart



Protocol # 700-A08