

# ACUTE CORONARY SYNDROME

HPI	Signs & Symptoms	Differential Diagnosis
<ul style="list-style-type: none"> <li>Quality: crushing, sharp</li> <li>PMH of angina, previous MI, diabetes, HTN</li> <li>Severity, onset</li> <li>Recent physical exertion</li> <li>Radiation, referred pain</li> </ul>	<ul style="list-style-type: none"> <li>Chest pain - pressure, aching, tightness</li> <li>Location - sub-sternal, epigastric, arm, jaw, neck, shoulder</li> <li>Shortness of breath</li> <li>Nausea/vomiting</li> <li>Pale/diaphoretic</li> </ul>	<ul style="list-style-type: none"> <li>Angina vs. MI</li> <li>Pericarditis</li> <li>GI reflux, esophageal spasm</li> <li><a href="#">Asthma/COPD</a></li> <li>Aortic dissection</li> <li>Pulmonary embolism</li> <li>Trauma vs. Medical</li> </ul>

	EMR	EMT	PM
1. Provide <a href="#">Adult Routine Medical Care</a> - support life threatening problems with airway, breathing circulation and disability.	•	•	•
2. <b>ASPIRIN</b> : 81 mg x 4 chewable PO (if already taken then augment to 324 mg total)	•	•	•
3. Obtain ECG and 12 lead, transmit to receiving facility, and monitor Capnography.		•	•

**UNSTABLE:** Altered Mental Status, MAP<65 or SBP <90

4. <b>NORMAL SALINE</b> in 500mL increments, titrate to MAP ≥ 65	•
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**STABLE:** GCS 15, MAP >65, SBP ≥ 90, skin warm/dry

5. <b>NITROGLYCERIN</b> : 0.4 mg SL, repeat every 5 min., max 1.2mg	•
6. For <a href="#">Pain Management</a> : <b>FENTANYL</b> : 1 mcg/kg IVP/IN/IO/IM, max single dose 100 mcg, repeat every 10 min., max total dose 200 mcg	•

**PEARLS:**

- If positive ST elevation then contact **STEMI** receiving center and call Alert at earliest possible time. Computer assisted ECG interpretation may be used along with provider interpretation.
- If ST Elevation noted in II, III, aVF: contact **OLMC** as **NITROGLYCERIN** may be contraindicated. Obtain V4R to evaluate right ventricular involvement. Do NOT transmit V4R.
- NITROGLYCERIN** should be withheld from patients who have taken erectile dysfunction or pulmonary hypertension medications in the last 48 hours such as Viagra, Levitra, Cialis.