

Michigan **ADULT CARDIAC**

CHEST PAIN/ACUTE CORONARY SYNDROME

Initial Date: 11/15/2015 Revised Date: 05/30/2023

Section 5-5

Chest Pain/Acute Coronary Syndrome

The goal is to reduce cardiac workload and to maximize myocardial oxygen delivery by reducing anxiety, appropriately oxygenating, and relieving pain. For non-cardiac causes of chest pain, refer to appropriate protocol which may include Pain Management-Procedure Protocol.

1. Follow General Pre-Hospital Care Protocol.

- 🖖 2. Obtain 12-lead as early as possible without delaying medication administration. (Per MCA selection, may be a BLS or Specialist procedure, follow 12 Lead ECG Procedure-Protocol).
 - 3. Administer oxygen 4 L/min per nasal cannula if pulse oximetry SpO2 < 94%.
 - 4. Assist patient in the use of their own aspirin up to a dose of 325 mg and per formulation (chew, swallow, etc.)
- (\$)5. Administer **aspirin** up to 325 mg PO, chew and swallow if no aspirin or suspected insufficient dose since the onset of chest pain. (Per MCA selection may be MFR and/or EMT skill).

Aspirin Administration		
✓ MFR	✓ EMT	

- 6. Inquire of all patients regardless of identified gender if they have taken an erectile dysfunction medication or medications used to treat pulmonary hypertension in the last 48 hours.
 - a. If yes, DO NOT ADMINISTER/ ASSIST WITH NITROGLYCERIN AND CONTACT MEDICAL CONTROL.
- ⟨**√**⟩ 7. Consider **fentanyl** early when nitroglycerin is contraindicated due to erectile dysfunction medication (see 14. below for **fentanyl** administration)
- 👔 8. If no erectile dysfunction medication, systolic BP is above 120 mmHG and patient has nitroglycerin sublingual tabs prescribed to them available (check expiration date): assist patient in use of their own nitroglycerin, up to a maximum of 3 doses.
- (S) 9. Prior to IV administration if no erectile dysfunction medication and systolic BP is above 120 mmHG, nitroglycerin 0.4mg sublingual may be administered up to a maximum of 3 doses. (Per MCA selection may be EMT skill)

Nitroglycerin Administration	
✓ EMT	

- S 10. Start an IV NS or LR KVO per Vascular Access and IV Fluid Therapy-Procedure Protocol.
- (S) 11. If the patient has a SBP of less than 100 mmHg:
 - a. Administer 250 ml fluid bolus (may repeat 3 times for a total of 1 liter)
 - b. Between boluses assess patient response and monitor for pulmonary edema.

© c. If pulmonary edema is noted stop fluids and contact Medical Control

MCA Name: Saginaw - Tuscola MCA MCA Board Approval Date: 10/4/23 MCA Implementation Date: 1/1/24 MDHHS Approval: 5/30/23



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- S 12. If no erectile dysfunction medication, IV has been established, and systolic BP is above 100 mmHG, administer nitroglycerin 0.4 mg sublingual. Dose may be repeated at 3-to-5-minute intervals if chest pain persists and systolic BP remains above 100 mmHg.
- (S) 13. Obtain 12-lead ECG (Per MCA selection, may be a BLS or Specialist procedure, follow 12 Lead ECG Procedure-Protocol). Follow local MCA transport protocol if ECG is positive for acute ST Elevation Myocardial Infarction (STEMI) and alert the hospital as soon as possible.
- 14. For patients with suspected cardiac chest pain refractory to nitroglycerin, or nitroglycerin is contraindicated due to erectile dysfunction medication, consider fentanyl administration:
 - a. Adults (< 65 years of age) administer **fentanyl** 1 mcg/kg IV/IO/IN, max single dose 100 mcg, may repeat one time. Total dose may not exceed 200 mcg.
 - b. Adults (> 65 years of age) administer **fentanyl** 0.5 mcg/kg IV/IO/IN, max single dose 50 mcg, may repeat three times. Total dose may not exceed 200 mcg.
 - c. Total dose may not exceed 200 mcg without Medical Control contact and approval.

Medication Protocols
Aspirin
Fentanyl
Nitroglycerin

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