

**West Michigan Regional MCC
ADULT CARDIAC**

CHEST PAIN/ACUTE CORONARY SYNDROME

Initial Date: 11/15/2015
Revised Date: 08/17/2020

Section 5-5

Adopting MCAs will have an "X" under their MCA name. If no "X" is present, the MCA has not approved or adopted the protocol.

Allegan	Barry	Clare	Ionia	Isabella	Kent	Mason
	X		X		X	X
Montcalm	Muskegon	N. Central	Newaygo	Oceana	Ottawa	
X	X	X	X	X	X	

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.



1. Follow General Pre-Hospital Care Protocol.
2. Administer oxygen 4 L/min per nasal cannula if pulse oximetry is not available. Oxygen is only required if pulse oximetry SaO2 < 94%.
3. Assist patient in the use of their own aspirin (if MCA approved, and patient not allergic to aspirin, administer aspirin up to 325 mg). Aspirin should be chewed and swallowed.

<input type="checkbox"/> MCA selection for MFR <input checked="" type="checkbox"/> MCA selection for EMT
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4. Inquire of all patients (male and female) if they have taken Viagra (sildenafil citrate) or similar erectile dysfunction medications or medications used to treat pulmonary hypertension in the last 48 hours. If yes, **DO NOT ADMINISTER NITROGLYCERIN AND CONTACT MEDICAL CONTROL.**
5. Assist patient in the use of their own Nitroglycerin sublingual tabs (check expiration date), if available, and if the patient's systolic BP is above 120 mmHg, for a maximum of 3 doses.
6. Administer aspirin up to 325 mg PO, chew and swallow if no aspirin or suspected insufficient dose since the onset of chest pain.
7. Start an IV NS KVO. If the patient has a BP of less than 100 mmHg, administer an IV/IO NS fluid bolus up to 1 liter wide open, in 250 ml increments and reassess.
8. Inquire of all patients (male and female) if they have taken Viagra (sildenafil citrate) or similar erectile dysfunction medications or medications used to treat pulmonary hypertension in the last 48 hours. If yes, **DO NOT ADMINISTER NITROGLYCERIN AND CONTACT MEDICAL CONTROL.**
9. Administer nitroglycerin 0.4 mg sublingual if BP is above 100 mmHg. Dose may be repeated at 3 to 5 minute intervals if chest pain persists and BP remains above 100 mmHg. Nitroglycerin may be administered prior to IV placement if the BP is above 120 mmHg.

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10. Obtain 12-lead ECG if available. Follow local MCA transport protocol if ECG is positive for acute ST Elevation Myocardial Infarction (STEMI) and alert the hospital as soon as possible. (Per MCA selection, may be a BLS procedure, follow 12 Lead ECG Procedure)
 - a. CAUTION with the ADMINISTRATION of NITROGLYCERIN if an Inferior Wall MI is suspected or confirmed.

11. For patients with suspected cardiac chest pain refractory to Nitroglycerin, consider Fentanyl 1 mcg/kg IV/IO (IN, if available). Maximum single dose 100 mcg, may repeat one time. Total dose may not exceed 200 mcg.

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Follow General Pre-hospital Care Protocol

Administer oxygen 4 L/min per nasal cannula if pulse oximetry is not available.
 Oxygen is only required if pulse oximetry SaO₂ < 94%.



Assist patient in the use of their own aspirin (if MCA approved, and patient not allergic to aspirin, administer aspirin up to 325 mg). Aspirin should be chewed and swallowed.

Aspirin: ■ MCA selection for MFR ■ MCA selection for EMT

Taken ED or pulmonary HTN meds <48 hrs?

Yes

DO NOT ADMINISTER NTG

Contact Medical Control

No

Assist patient in the use of their own Nitroglycerin, if available, and BP above 120 mmHg, for a maximum of 3 doses.



IV Access and administer fluid bolus (250 ML)
 Titrate to BP >100mmHg

Inquire of all patients (male and female) if they have taken Viagra (sildenafil citrate) or similar erectile dysfunction medications or medications used to treat pulmonary hypertension in the last 48 hours. If yes, DO NOT ADMINISTER NITROGLYCERIN AND CONTACT MEDICAL CONTROL.

Administer nitroglycerin 0.4 mg sublingual if BP is above 100 mmHg. Dose may be repeated at 3 to 5 minute intervals if chest pain persists and BP remains above 100 mmHg. Nitroglycerin may be administered prior to IV placement if the BP is above 120 mmHg.



Obtain 12 Lead
 If STEMI, alert receiving facility
 Follow local transport protocol

CAUTION with administration of NITRO to suspected or confirmed Inferior Wall MI

For patients with suspected cardiac chest pain refractory to Nitroglycerin, consider Fentanyl 1 mcg/kg IV/IO (IN, if available). Maximum single dose 100 mcg, may repeat one time. Total dose may not exceed 200 mcg.



Contact Medical Control