



# Jackson Hole Fire/EMS Operations Manual

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Title: **Treatment Protocol:  
Acute Coronary  
Syndromes**

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## ACUTE CORONARY SYNDROMES (Chest Pain of Suspected Cardiac Origins & STEMI) Treatment Protocol

INT	Within 10-minutes of pt. contact Acquire and Transmit <b>12-lead ECG</b>	INT
INT	Rhythm Assessment	INT
<b>Positive ACUTE MI?</b> STEMI = 1mm ST elevation in 2 or more contiguous leads, <b>OR</b> new or presumed new <b>LBBB</b>		
<b>Contact Receiving Facility within 10 Minutes of arrival at patient side</b>		
EMT	O <sub>2</sub> (maintain pulse ox >94%)	EMT
EMT	Aspirin 324mg chewed	EMT
INT	IV	INT
INT*	Nitroglycerin 0.4 mg SL (may repeat x 2, q 5 min, if SBP > 90 mmHg)	INT*
<b>Continued Pain?</b>		
INT	<b>Use Protocols as needed</b> Pain Control Protocol Dysrhythmia or Hypotension Protocols	INT
INT	<b>Zofran</b> for nausea 4mg (IV/ODT) (q x 1 in 5 min if nausea persists)	INT
P	Consider <b>V4R</b> and <b>15 Lead</b> to identify possible right side MI (Advise hosp. this is a modified 12-lead)	P
P	Consider <b>Fluid Bolus</b> if hypotensive or suspected Inferior MI	P
INT	Consider <b>2<sup>nd</sup> IV</b> en route	INT
INT	If time allows during transport- Reperfusion Checklist	INT

\*EMT's may assist in administration of the patients own nitroglycerin

## History

Age

Medications (nitrates/ blood thinners)

Erectile Dysfunction meds / Phosphodiesterase Inhibitors

Past Medical History

Family Hx of Cardiac Problems

Recent Physical Exertion

Drug Use

Onset

Palpation/Provocation

Quality (i.e. cramping, constant, sharp, dull, pressure, heaviness)

Region/ Radiation/ Referred

Severity (1-10)

Time (Duration/ repetition)

## PEARLS:

- **Exam:** Mental Status, Skin, Neck, Lungs, Heart, Abdomen, Back, Extremities, Neurological
- Avoid Nitroglycerin in any patient who has used Erectile Dysfunction medications in the past 48 hours due to potential severe hypotension.
- Be aware that Erectile Dysfunction medications are now being used to treat pulmonary hypertension- *be sure to ask all patients.*
- Monitor for hypotension after administration of nitroglycerin and morphine.
- Females, diabetics and geriatric patients often have atypical signs/symptoms, or only generalized complaints.
- Document 12-lead and transmission status using "12-lead EKG" procedure tab in the patient care report.

## Differential

Trauma vs. Medical

Angina vs. Myocardial infarction

Heart Rhythm Disturbances

Pericarditis

Pulmonary embolism

Asthma / COPD

Pneumothorax

Aortic dissection or aneurysm

GERD or Hiatal hernia

Esophageal spasm

Chest wall injury or pain

Pleural pain

Overdose (Cocaine, or other recreational/  
prescription medications)