BASE HOSPITAL TREATMENT GUIDELINES

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Chest Pain of Suspected Cardiac Origin or Suspected Angina Equivalent Symptoms

BASE GUIDELINES

- Determine ALS Standing Order treatments/procedures provided prior to Base Hospital contact. Use ALS Standing Order as guidelines for treatments/procedures not initiated prior to Base Hospital contact.
- 2. If 12-Lead ECG is reported to show **bundle branch block** (right or left) or pacemaker rhythm, assume chest pain is the result of cardiac ischemia and may be an acute MI, refer to an open CVRC.
- 3. For patients with suspected cardiac chest pain and **low BP**, hold Nitroglycerin and if lungs are clear to auscultation, give 250 mL normal saline bolus (this situation is not uncommon with right coronary ischemia and infarcts).
- 4. OCEMS paramedics may contact a Base for suspected acute MI based on the internal reading of the 12-Lead recorder or based on their own reading of the ECG.
- 5. Before assigning a CVRC destination, assure that there is an open Cath lab at the proposed receiving CVRC and that the ED is not closed on the ReddiNet.
- 6. If a **patient requests** a CVRC that is not the closest and transport time is 20 minutes or less, such a request can be honored if the patient is stable (primarily BP greater than 90 systolic).
- 7. Supplemental oxygen should be held if the pulse oximetry reading is 95% or above on room air.
- 8. Consider administering **Nitroglycerin** to a chest pain patient with a BP above 100 systolic as the IV is being established or if an IV cannot be established.

ALS STANDING ORDER

- 1. Monitor Cardiac Rhythm
- 2. Obtain **12-Lead ECG** as soon as possible prior to leaving scene; if acute MI indicated or suspected make Base Hospital contact for CVRC destination with cardiac catheterization lab open and available.
- 3. Administer aspirin if <u>none</u> of the following contraindications exists:
 - o If pain directly in the mid-back, mid-line region, <u>hold</u> aspirin as this may be a symptom of a dissecting aorta, particularly in a patient with a history of hypertension.
 - Patient is on anticoagulant ("blood thinners") medication such as Coumadin, Pradaxa®, Effient®, and Lovenox® or antiplatelet medications such as Plavix®.
 - o Patient reports history of aspirin allergy
 - Aspirin 4 (four) 81 mg chewable tablets (chew) or one 325 mg regular tablet (chew).
- 4. Pulse oximetry; if room air 0_2 saturation less than 95%:
 - ▶ Administer Oxygen by mask or nasal cannula at 6 L/min flow rate as tolerated.
- 5. For initial management of suspected cardiac pain give:
 - ▶ Nitroglycerin 0.4 mg SL if systolic BP above 100 mm/Hg; repeat approximately every 3 minutes for continued discomfort; maximum total of 3 doses if systolic BP above 100 mm/Hg (Do not include possible doses patient took prior to ALS arrival as part of 3 EMS doses).

Approved:

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BASE GUIDELINES

ALS STANDING ORDER TREATMENT GUIDELINES

If AAA suspected, patient should be routed to the nearest open Trauma Center.

- ► Signs of Abdominal Aortic Aneurysm (AAA) disruption include:
 - Sudden onset abdominal, back or flank pain
 - Shock (hypotension, poor skin signs)
 - Bradycardia or tachycardia
 - Pulsating mass, loss of distal pulses are not always observed
- ▶ Patients considered at risk of AAA disruption include:
 - Male
 - Age >50 years
 - · History of hypertension
 - Known AAA
 - Family history of AAA
 - Coronary artery disease or other vascular disease

If a patient is wearing a LifeVest®,

- Proceed with standard evaluation and treatment measures.
- CPR can be performed as long as the device is not broadcasting, "press the response buttons," or "electrical shock possible, do not touch patient," or "bystanders do not interfere"
- If external defibrillation is available, remove the LifeVest® and monitor/treat the patient with the external equipment. Providers can defibrillate with the vest in place AFTER disconnecting the battery.
- To remove the LifeVest®, first pull out the battery, then remove the garment from the patient.
- Take vest, modem, charger, and extra battery to the hospital.

ALS STANDING ORDER

- 6. If **pain unrelieved with 3 doses of nitroglycerin** or nitroglycerin cannot be administered, give:
 - ▶ Morphine Sulfate: 5 mg (or 4 mg carpuject) IV, may repeat once after approximately 3 minutes (hold if BP is less than or drops below 90 systolic) OR.
 - ► Fentanyl 50 mcg IV, may repeat once after approximately 3 minutes for continued pain (hold if BP less than or drops below 90 systolic).
- 7. For nausea or vomiting and not known or suspected to be pregnant:
 - ▶ Ondansetron (Zofran®): ODT 8 mg (two 4 mg tablets) orally to dissolve inside of cheek, once;

OR,

- ▶ 4 mg IV, may repeat 4 mg IV in approximately 3 minutes if symptoms persist.
- 8. Contact Base Hospital if acute MI (STEMI) for CVRC Destination or if acute MI not suspected, paramedic escort to an appropriate ERC.

CAUTION: AN ECG THAT IS "NORMAL" OR NEGATIVE FOR STEMI DOES NOT RULE OUT AN ACUTE MI OR SERIOUS ANGINA.

TREATMENT GUIDELINES:

- The following 12-Lead monitor interpretations should be triaged to a CVRC:
 - 1. ***ACUTE MI***
 - 2. ***STEMI***
 - 3. Acute ST Elevation Infarct
 - 4. Probable Acute ST Elevation Infarct
 - 5. Acute Infarction
 - 6. Infarct, Probably Acute
 - 7. Infarct, Possible Acute

Approved:

Carl Schults, Mo.

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ALS STANDING ORDER

- Do not administer nitroglycerin if Viagra® (sildenafil, Levitra® (vardenafil), or Cialis® (tadalafil) were used by the patient in the past 24 hours).
- Intraosseous lines should be avoided for potential CVRC patients because such lines may allow for uncontrolled bleeding without the ability to compress the bleeding site if a patient receives thrombolytics.
- Angina equivalent symptoms can include, but are not limited to:
 - Unexplained sweating or diaphoresis
 - Sudden onset of general weakness
 - Unexplained shortness of breath
 - Anxiety, or vague feeling of panic
- Chest Discomfort presenting as heartburn, pleuritic, or musculoskeletal pain does not rule out heart disease or acute MI. A field 12-lead ECG should be obtained as soon as possible, preferably prior to leaving scene, on any adult 45 years-old or greater who complains of the following symptoms:
 - Known history of heart disease with chest pain, chest discomfort, shortness of breath, or syncope-weakness.
 - Chest pain or chest discomfort (unrelated to injury or strain) as chief symptom.
 - Radiation of chest pain or chest discomfort to arm, shoulder, neck, jaw or back.
 - Diaphoresis.
- Base Hospital contact should be made prior to leaving scene for all patients who have a 12-Lead performed and elect to sign out AMA.
- See Base Guidelines for information regarding LifeVest®.

Approved:

Cal Schults, Mp.

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