



INDICATION:

- A patient suspected of having a cardiac event. This includes patients with atypical presentations. Symptoms and historical data that clearly raise suspicions of a cardiac event include:
 - Chest pain or discomfort without a clear non-cardiac explanation
 - History of known heart disease or cigarette use or hypertension or diabetes with:
 - Non-traumatic chest pain/chest discomfort or
 - Shortness of breath or
 - Nausea or vomiting (without other clear explanation)
 - Chest pain that radiates to or pain that originates in the arm, shoulder, neck, jaw or back (without other clear explanation)
 - Diaphoresis (without other clear explanation)
 - Age > 45 years with
 - Acute anxiety. Anxiety is common with acute cardiac conditions even in the absence of pain and should be considered a symptom rather than a chief complaint
 - Generalized weakness
 - Tachycardia (without other clear explanation)
 - Consider EKG for rates between 100-130 and required for rates of 130 or more
 - Significant bradycardia (50 or less)
 - Syncope or near-syncope

PROCEDURE:

- Complete initial assessment and stabilizing treatment. **DO NOT DELAY TREATMENT TO OBTAIN 12-LEAD ECG.**
 - In situations in which delaying treatment to obtain an ECG would compromise patient care in the field, such as those with cardiopulmonary arrest, acute respiratory failure, blood pressure < 90 systolic, altered level of consciousness, or other severe conditions, acquire the 12-Lead ECG at incident location or in vehicle just prior to beginning transport.
- Place precordial lead electrodes and acquire tracing as per manufacturer's directions.
- Relay ECG interpretation to base hospital if indicated.
- Transmit ECG tracings that are positive or suspected for acute MI before arrival to receiving Cardiovascular Receiving Center.
- If defibrillation or synchronized cardioversion is necessary, place paddles or defibrillation pads, removing 12-lead patches if necessary.

DOCUMENTATION:

- Document obtaining 12-Lead and interpretation on prehospital care report (PCR).
- Transmit 12-Lead to CVRC from the field.
- Attach or upload a copy of 12-lead to PCR.

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

Approved:

Carl Schultz MD

Review Date: 01/04, 03/06, 07/17, 2/18, 9/19
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12-LEAD ELECTROCARDIOGRAPHY

NOTES:

- Presentation of heartburn, pleuritic or musculoskeletal chest pain does not rule out heart disease or acute MI.
- Do not need to repeat positive for acute MI 12-lead performed at clinic or other similar medical setting.
- Machine interpretation of suspected MI may not be accurate in presence of paced rhythms, bundle branch blocks, and certain tachycardia rhythms (*e.g.*, SVT, atrial flutter). When communicating machine interpretation to base hospital, paramedics should advise base of paced / BBB / tachycardia rhythms.
- Base Hospital contact required for patients who refuse BLS or ALS transport after having a 12-lead performed in the field.

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