



TITLE: 12 LEAD ECG PERFORMANCE CRITERIA

EMS Policy No. 2551

12 LEAD ECG

Name: _____ Date: _____ License # _____

Medical history and/or presenting complaints consistent with coronary ischemia.

A. Indications:

Only Patients with one or more of the following signs/symptoms:

1. Chest or upper abdominal discomfort suggestive of coronary ischemia.
2. Acute onset of unexplained hypotension.
3. Return of spontaneous circulation (ROSC).
4. Acute onset congestive heart failure.

B. Precaution:

1. Performing a 12 lead ECG on a patient without proper indications increases the likelihood of obtaining a false positive STEMI finding.

Performance Criteria		Pass	Fail
1.	Uses universal precautions.		
2.	Do not delay assessment and treatment. Follow appropriate policies regarding the patient's clinical assessment.		
3.	Explain to the patient the procedure and the importance of obtaining an ECG.		
4.	States: Exposes the chest and prepare the patient's skin for electrode placement. Dry the skin if it is excessively moist. If there is significant chest hair, use a razor to shave areas where leads will be placed.		
5.	Attach ECG leads to the patient: <ol style="list-style-type: none"> 1. Place the electrodes on the limbs. The limb leads can be placed anywhere from the shoulders to the wrist and the thighs to the ankles – not the torso. 2. Place the electrodes on the chest. The six precordial (chest) lead electrodes: <ol style="list-style-type: none"> a. V1: right 4th intercostal space, just to the right of the sternum. b. V2: left 4th intercostal space, to the left of the sternum. c. V3: Halfway between V2 and V4. d. V4: Left 5th intercostals space, midclavicular line. e. V5: Horizontal to V4, anterior axillary line. f. V6: Horizontal to V5, mid-axillary line. 		
6.	Encourage the patient to remain as still as possible and not to talk.		



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Performance Criteria		Pass	Fail
7.	Run the 12-Lead ECG.		
8.	The 12-Lead/Age menu will appear. Select the patient's age.		
9.	If the monitor detects noise (such as patient motion or a disconnected electrode), the 12-Lead is interrupted. Take appropriate action and run the 12-Lead again.		
10.	If the 12-lead ECG indicates an acute STEMI, based on cardiac monitor/defibrillator manufacturer's operating instructions regarding STEMI alerting messages. <ul style="list-style-type: none"> ➤ LP12 (** ACUTE MI SUSPECTED ***) ➤ LP15 (** MEETS ST ELEVATION MI CRITERIA ***) ➤ Zoll E Series (** * * * * ACUTE MI * * * * * *) ➤ Philips Tempus (** MEETS ST ELEVATION MI CRITERIA ***) 1. States: Notify the STEMI Receiving Center (SRC). 2. States: They will transmit 12 lead to SRC. 3. States: Transport to SRC.		
11.	Attaches a copy of the 12-lead ECG to the PCR.		

Please provide comments for any item that is marked as failed:

Name & Signature of Evaluator

Date

Effective: July 1, 2024
Supersedes: January 1, 2012

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Approved: Signature on file
Medical Director

Signature on file
EMS Administrator