

APPENDIX: 10**TITLE: CARDIAC MONITORING PROCEDURES****REVISED: November 1, 2017****I. INDICATIONS:**

Patients at risk for dysrhythmias or receiving medications shall have continuous EKG monitoring. A rhythm strip shall accompany each EKG rhythm interpreted in written patient reports. A 12 Lead EKG shall be obtained when appropriate.

A PARAMEDIC SHALL ATTEND ALL PATIENTS REQUIRING EKG MONITORING.

II. CONTRAINDICATIONS:

NONE

III. PROCEDURE:**12-LEAD EKG PLACEMENT:**

Limb leads are placed on a non-bony part of the distal anterior aspect of the appropriate extremity.

Chest leads are placed as follows, shave and gently abrade the area as needed.

Left chest leads

- V1: fourth intercostal space just right of the sternum
- V2: fourth intercostal space just left of the sternum
- V3: fifth rib, between V2 and V4
- V4: fifth intercostal space, midclavicular line
- V5: fifth intercostal space, anterior axillary line
- V6: fifth intercostal space, midaxillary line

Right chest leads: (Optional)

- Placed in corresponding position on the right side of the chest
- Documented as V3R, V4R, etc. (V4R is preferred)

Posterior chest leads (V7-V9) (Optional)

- V7: Posterior axillary line, fifth intercostal space
- V8: Midscapular line, fifth intercostal space
- V9: Left of the vertebrae, fifth intercostal space

“12-LEAD EKG RULES TO LIVE BY”

- Watch for reciprocal (mirror image) changes opposite the site of a suspected MI
- Inferior MI with reciprocal changes in V1-V2, consider posterior MI
- Inferior MI with decreased B/P, decreased heart rate, consider right-sided MI. This is especially true if ST elevation is greater in lead III than lead II
- About 30% of left inferior MI's are also right-sided MI's
- Apparent A-Fib with regular R-R's, consider digoxin toxicity
- Right-sided MI's may need fluids before nitrates

IV. SPECIAL CONSIDERATIONS:

- Limb lead EKG monitoring is for rhythm interpretation only. A 12-lead must be obtained to document diagnostic EKG changes (ST segment changes, Q waves, etc.)
- If a 12-lead EKG is not available, a “Modified Chest Lead” (MCL) may be obtained by monitoring lead III and placing the left leg electrode in the V1, V4, or V6 position. This shall be documented as MCL-1/4/6
- The diagnostic 12-lead EKG is intended to assist in the recognition of infarction and dysfunction. **A normal 12-lead EKG does not preclude the presence of an MI.**
- The acquisition of a 12-lead EKG should not significantly delay treatment or transport