EKG and Telemetry: Cardiac Rhythm Capture and Interpretation
INSTRUCTOR LED SKILLS PRACTICE

Name: _____ Date: _____

Supplies Needed	Telemetry patches if applying on task trainer/manikin, leads (if available), rhythm strips, calipers, laminated picture of chest and expo markers/eraser.
Equipment Needed	

	✓
Preparation	
Perform I-CHECK: introduce yourself, check armband (two patient identifiers), hand hygiene, explain procedure, check order, and keep privacy	
Prepare the patient for placement of monitoring electrodes • Dry skin if patient is wet or sweaty • Can use alcohol pad to clean skin in area patch is needed. • Remove excessive hair if patches are not sticking (use electric razor) • Abrade the skin gently to improve patch adherence • Position patient supine or in semi-fowlers	
12 lead EKG Electrode Placement	
Apply electrode patches in the correct placement • V1 = (red) 4th intercostal space to the right of the sternum • V2 = (Yellow)4th intercostal space to the left of the sternum • V3 = (Green) Directly between leads V2 & V4 • V4 = (Blue) 5th intercostal space at midclavicular line • V5 = (orange) level with v4 at left anterior axillary line • V6 = (Purple) level with V5 at midaxillary line directly under the midpoint of the armpit • RA = (White) upper right arm • LA = (Black) upper left arm • RL = (Green) lower right leg • LL = (Red) lower left leg	
Ensure patient does not move and avoids talking during the recording of the 12 lead EKG	
Remove leads from patient chest. If another 12 lead will be needed, patches can remain on patient during treatment. If another 12 lead not needed in immediate future, remove patches.	
Trained provider should review results of EKG.	
Verbalizes 12 lead EKG allows views of I,II,III, aVR, aVF, aVL, and V1-6	
Verbalizes leads to monitor for each: Inferior (II, III, and aVF), lateral (I, aVL, V5, V6), Anterior (V1-V4)	
5 lead Monitoring Electrode Placement	
Limb leads: smoke (black) over fire (red) Snow (white) over grass (green). Also can use white on right • RA = White (White on right, white clouds over green grass-right arm) • LA = Black (Black smoke over red fire-left arm) • RL = Green (green grass-right leg) • LL = Red (Red fire-left leg) • V1= Brown (Center of chest-right of sternum, 4th intercostal space)	

Five lead monitoring allows views of I, II, III, and V1	
EKG Interpretation	
Identifies P waves, PR interval, QRS, and T wave	
Calculates the rate on a 6 second strip	
Identifies by sight artifact, NSR, Atrial fibrillation, Ventricular fibrillation, Ventricular Tachycardia, Asystole, 3rd Degree block	
Practices measuring telemetry components and interpreting telemetry strips.	

The student demonstrated active participation throughout the lab session, fully engaging in practice activities and discussions while making a focused effort to develop a strong understanding of the skill.

Evaluator Initials or Signature: _____ Date: _____