

# 12/15-lead ECG electrode placement

## AHA labels

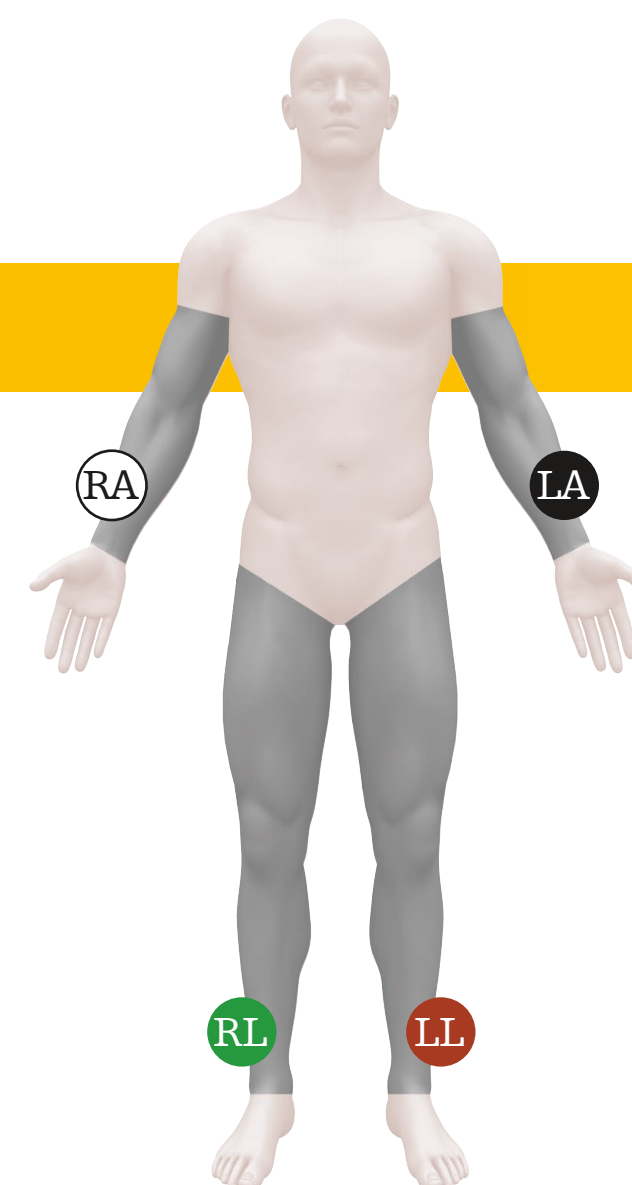
### Why is electrode location important?

- Incorrect ECG electrode location can adversely affect both manual and automated ECG interpretation.
- Correct electrode location is important when comparing the current ECG to a prior ECG or an ECG recorded later at the hospital.

### 12-lead: limb electrode locations

For accurate 12-lead measurements and interpretation, limb electrodes must be placed on the limbs, not the torso. Criteria for interpretation were developed using ECGs with limb placement. In addition, avoid placement on large muscle groups.

Electrode	Standard location
RA	Right arm, distal to axillary fold
LA	Left arm, distal to axillary fold
RL	Right leg, anywhere on leg
LL	Left leg, anywhere on leg

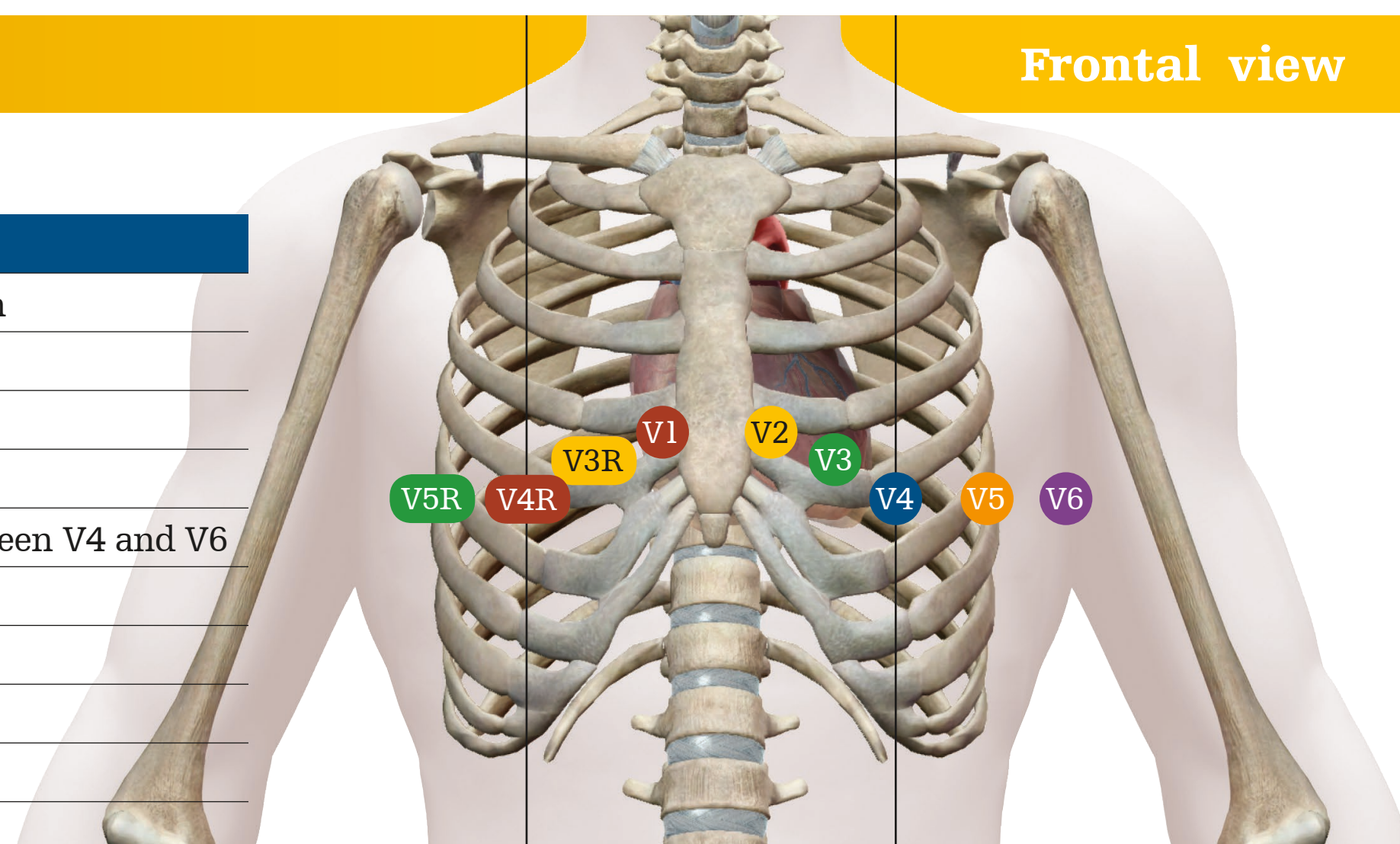


### 12/15-lead ECG: chest electrode locations

For women, place electrodes under breast.

Electrode	Location
V1	4th intercostal space at right border of the sternum
V2	4th intercostal space at left border of the sternum
V3	Midway between V2 and V4
V4	5th intercostal space at midclavicular line
V5	Level with V4 at left anterior axillary line, or between V4 and V6
V6	Level with V4-V5 at left midaxillary line
V3R	Midway between V1 and V4R
V4R	5th intercostal space, right midclavicular line
V5R	Level with V4R at right anterior axillary line

Note: Automated interpretation may be invalid if standard V electrodes are moved to alternate locations



### 15-lead ECG: posterior electrode locations

Electrode	Location
V7	Level with V4-V6 at left posterior axillary line
V8	Level with V4-V6 at left midscapular line
V9	Level with V4-V6 at left spinal border

