

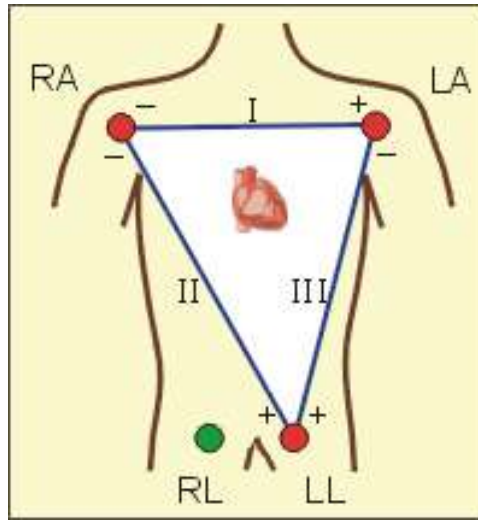
# EINTHOVEN'S TRIANGLE

**Sunnyvale HST**

# WHAT IS IT?

An imaginary triangle formed around the heart when limb leads are placed properly at the right arm, left arm and left leg.

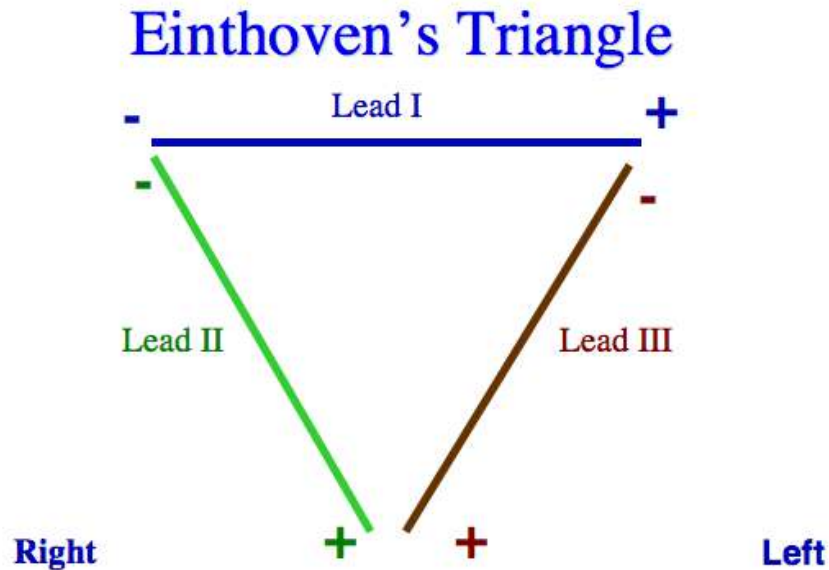
Each lead represents a different view of the heart.



# BIPOLAR LIMB LEADS

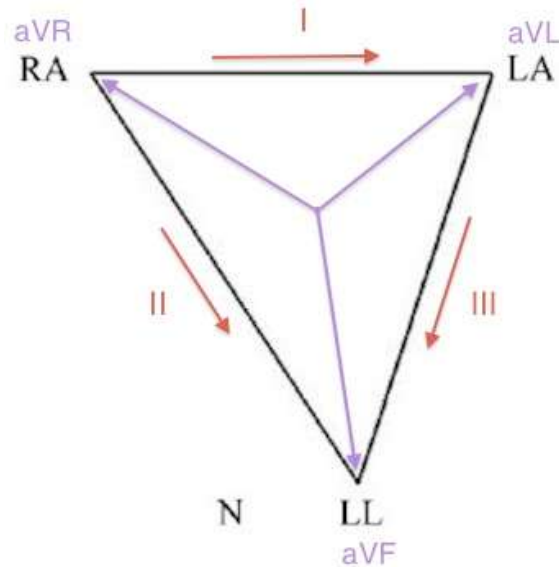
Leads that have a negative and positive pole on either end

Leads I, II and III

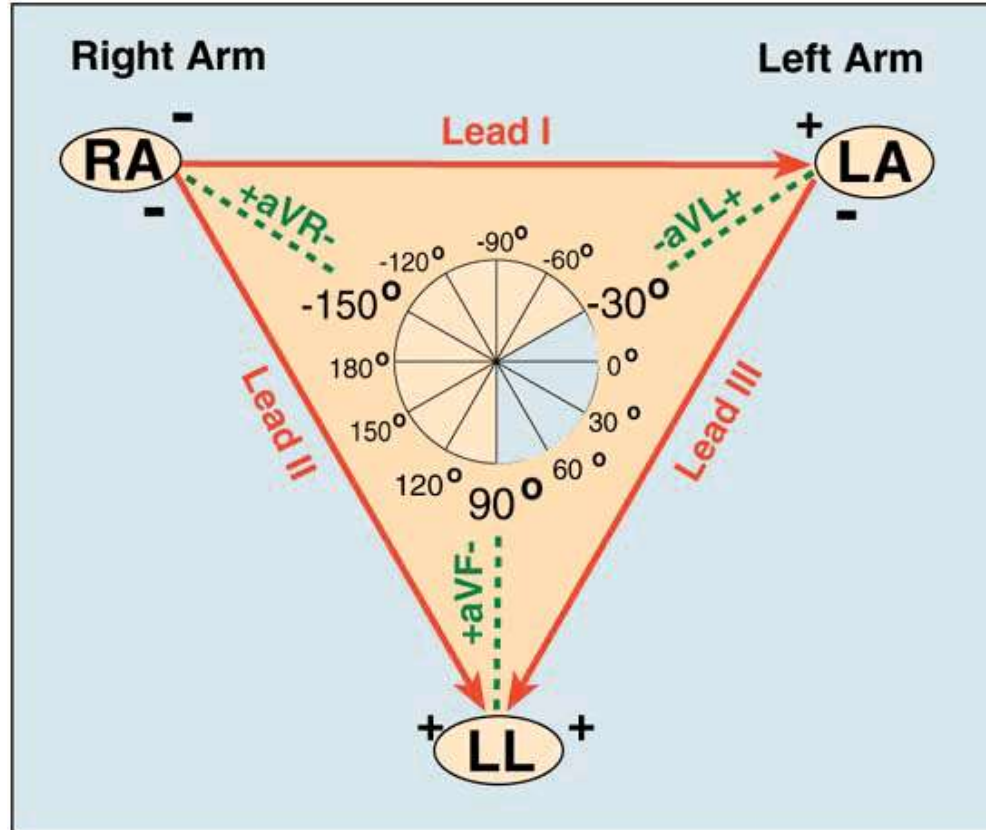


# UNIPOLAR LIMB LEADS

Leads that originate from the center of Einthoven's Triangle (Wilson's Central Terminal) and combine with leads I, II or III to create new views of the heart

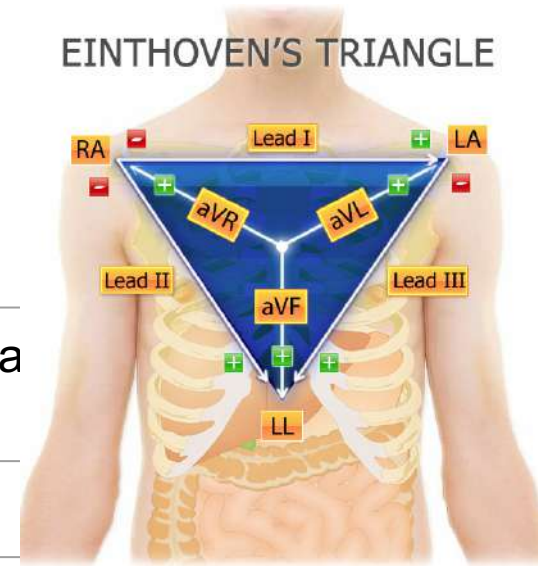


# PUT IT ALL TOGETHER



# VIEWS OF THE HEART

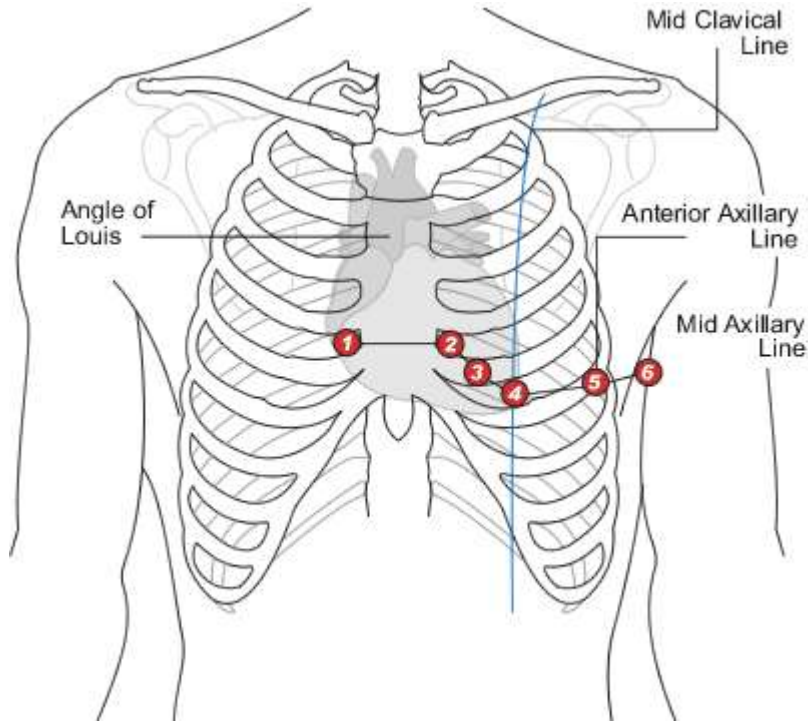
EINTHOVEN'S TRIANGLE



Lead	Positive Electrode	Negative Electrode	View of Heart
I	Left arm	Right arm	Left side
II	Left leg	Right arm	Inferior
III	Left leg	Left arm	Inferior/Right
aVR	Right arm		Right side
aVL	Left arm		Left side
aVF	Left leg		Inferior

\*Imagine a camera pointed from the positive electrode toward the heart, and that tells you the view created

# CHEST LEADS (FOR 12-LEAD EKG)



Lead	Electrode Placement	View of Heart
V1	4th intercostal space to right of sternum	Septum
V2	4th intercostal space to left of sternum	Septum
V3	Directly between V2 and V4	Anterior
V4	5th intercostal space at midclavicular line	Anterior
V5	Level with V4 at left anterior axillary line	Lateral