

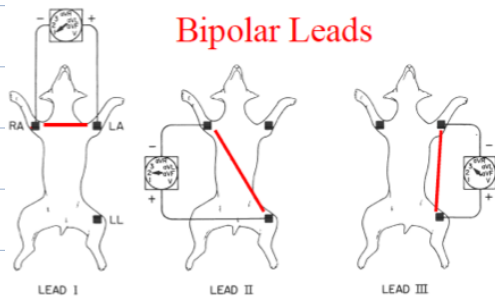


Electrocardiogram

↳ cannot tell us about cardiac function systolic/diastolic

Lead II - Positive and negative electrode
Negative right arm
Positive left leg

Depolarization headed positive, it records a positive 
headed negative it records a negative 



Leads

Lead I: right arm - left arm +

Lead II: right arm - left leg +

Lead III: left arm - left leg +

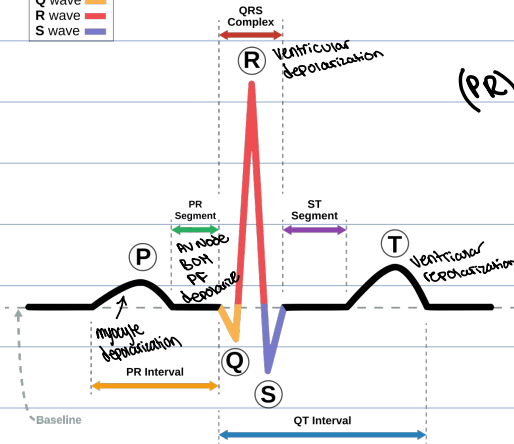
Large animals: lead I and II QRS complex should be negative

ECG waveform genesis

Lead II used for ECG complex assessment

Don't see SAN depolarization

Q wave
R wave
S wave



P-Wave = atrial myocyte depolarization
(PR) PQ interval = majority AV nodal and His-bundle
branch-Purkinje network depolarization

QRS = ventricular depolarization

T-wave = ventricular repolarization

* All specialized conduction tissue has depolarized
within the PQ interval

Comparative Electrocardiography

Type A (Dog, Cat, Ape, Man)

3 phases: Septum → Apex → Base

Type B (horse, cow/ruminants, pig, birds)

2 phases: Septum → base in a very rapid succession

more complete and deeper penetrating Purkinje system