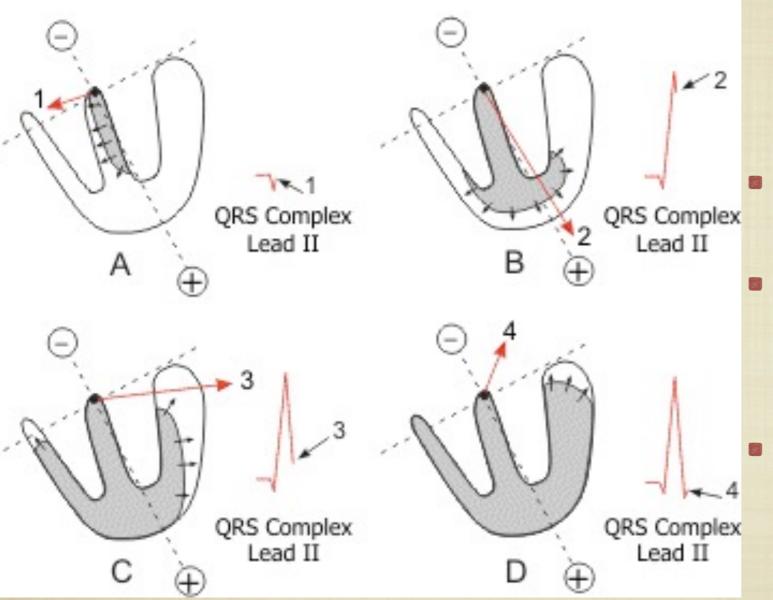


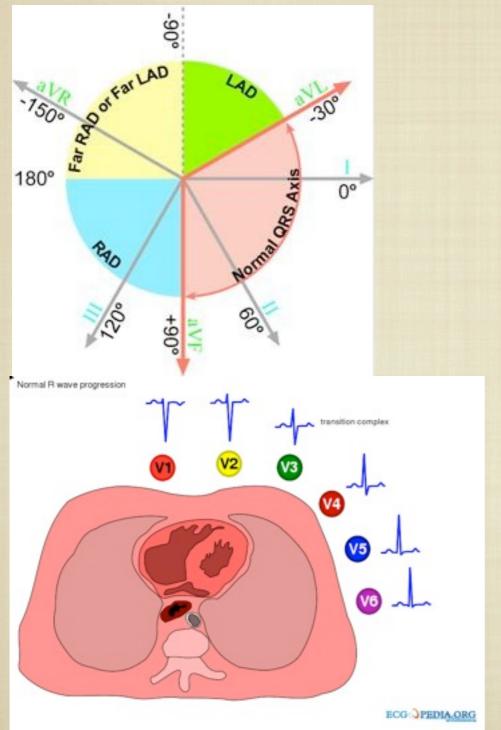
EKG AT REST: QRS COMPLEX(1)



- Q wave represents septal (wall btw R & L ventricles) depolarization. This is the beginning of ventricular depolarization.(1)
- It is propagated from left to right.
- The septal depolarization is initiated by the action potential arrived at the septal fascicle of left bundle branch (LBB)
 - Q wave appears as a negative deflection in lateral, inferior and anterior leads with an amplitude < 0.1 mV
- Sometimes Q wave is not visible on a normal EKG



EKG AT REST: QRS COMPLEX(2)



- RS represents VENTRICULAR MUSCLE depolarization. R is the positive deflection and S the negative one.
- Left Ventricle is more massive than the right one and the average vector points left, anywhere from -30 to +90 degrees. So R (positive) waves will be found in the inferior and lateral leads while S(negative wave)in aVR for ex.
- In sagittal plan: V1 and V2 covers the R ventricle while V5 and V6 the L ventricle. So an S wave will appear in the first 2 V leads and an R in the last 2 V leads. V3 and V4 are biphasic and called transition zone.
- The progressively increasing R wave from right to left in the precordial leads is known as R-wave progression
- QRS amplitude >> P wave amplitude due to much more muscle mass of the ventricles in comparison with the atria generating a greater action potential