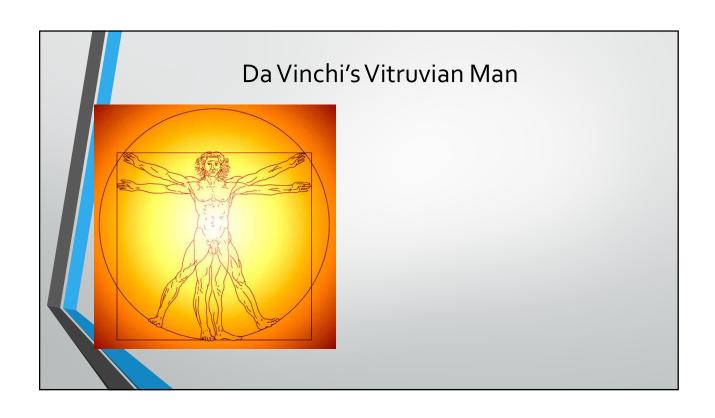
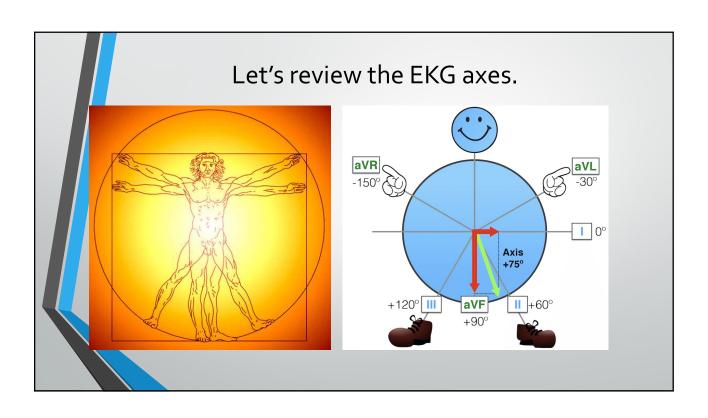
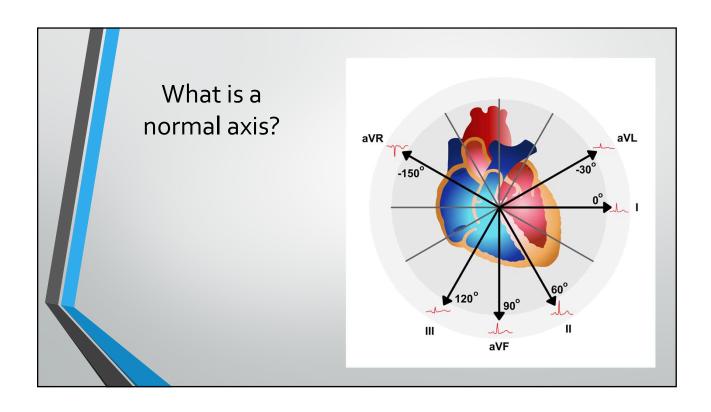
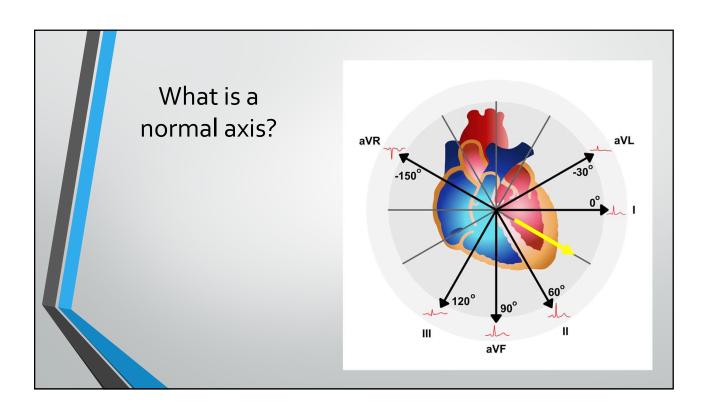
EKG Review — Axis Deviations and Bundle Branch Blocks John J. Hagan, M.D. 2022 NDAPA Fall Conference

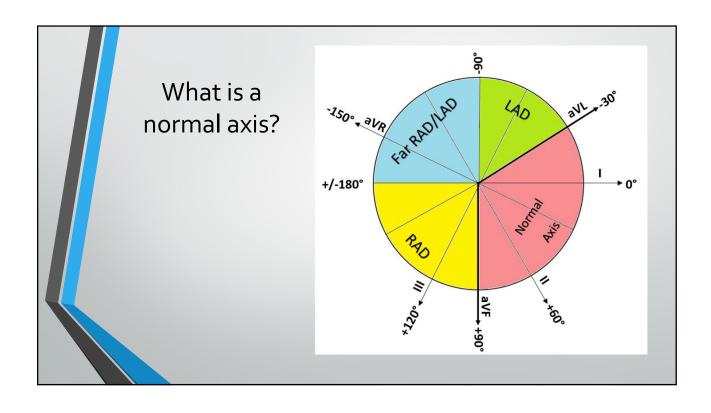
Recognizing EKG axis deviation is straightforward.

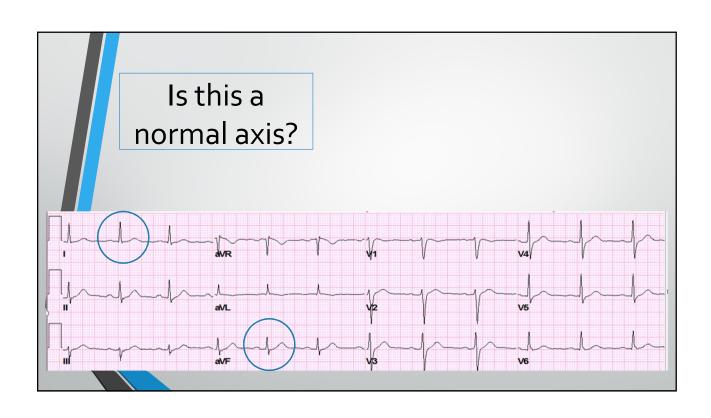


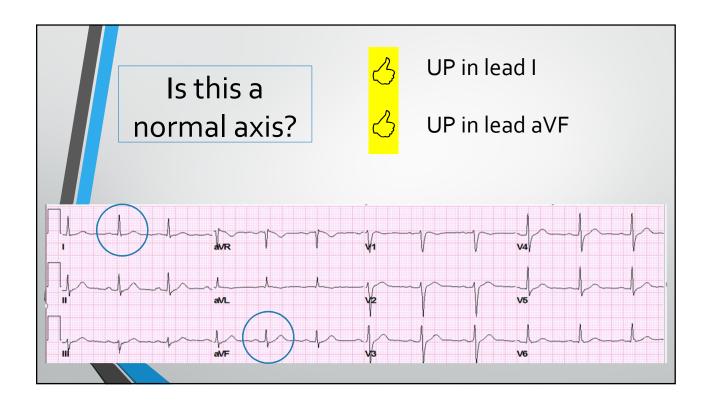


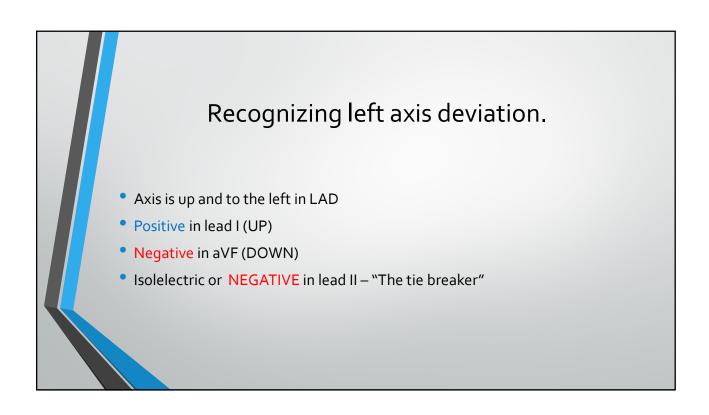


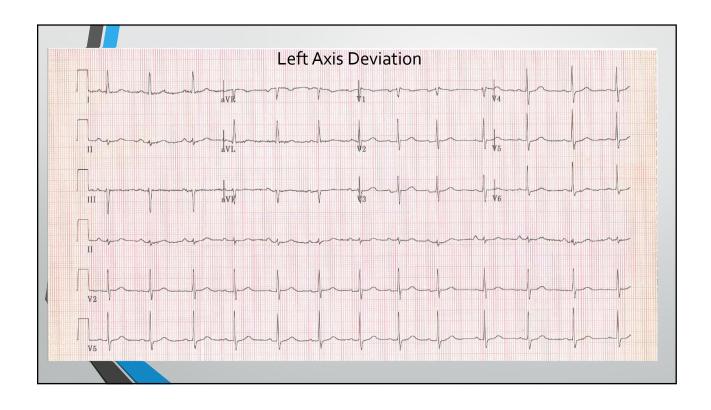


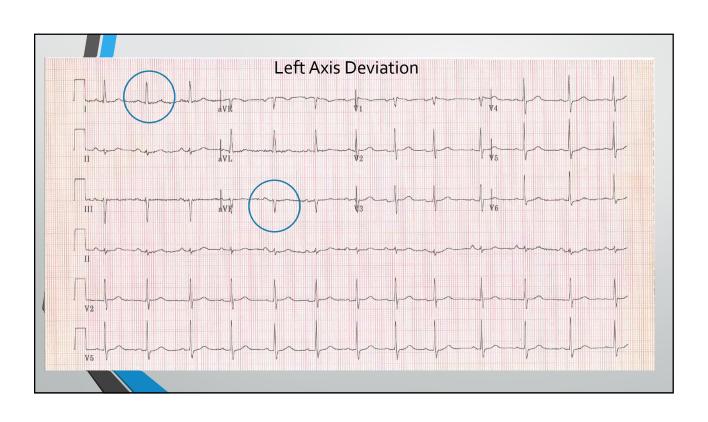


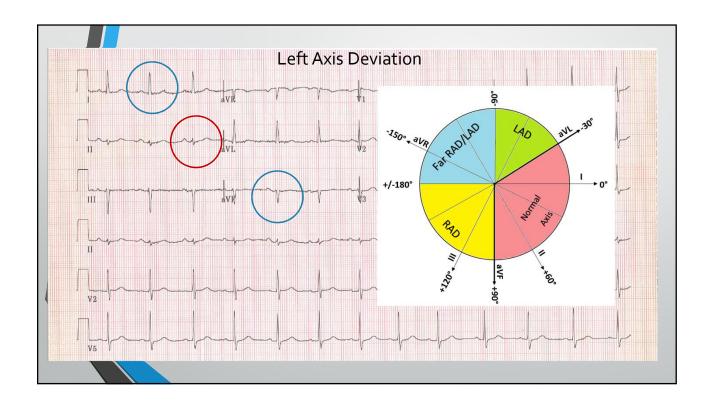


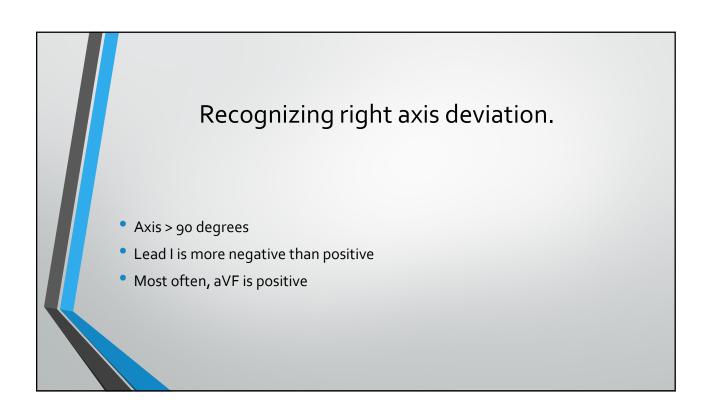


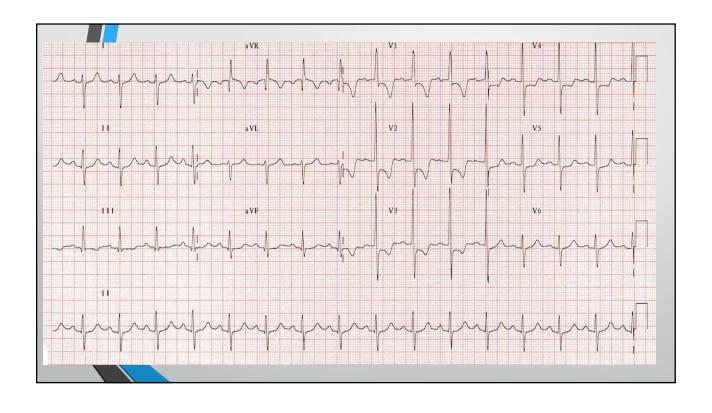


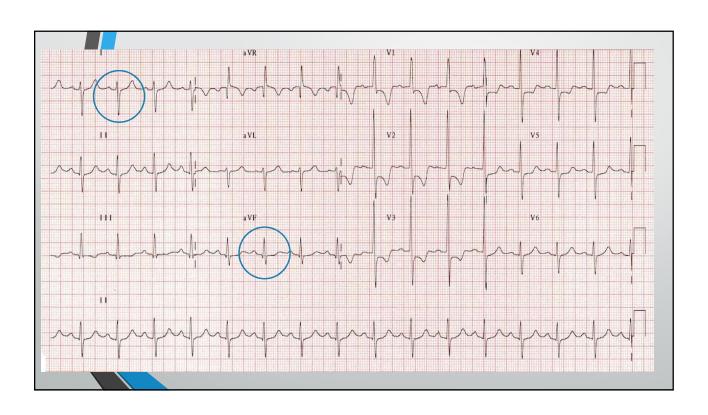


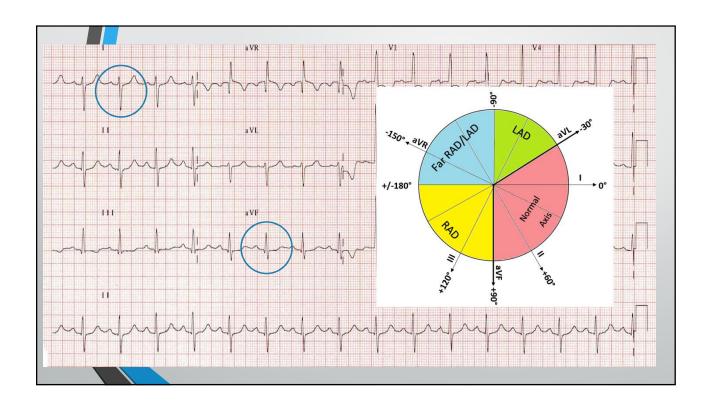


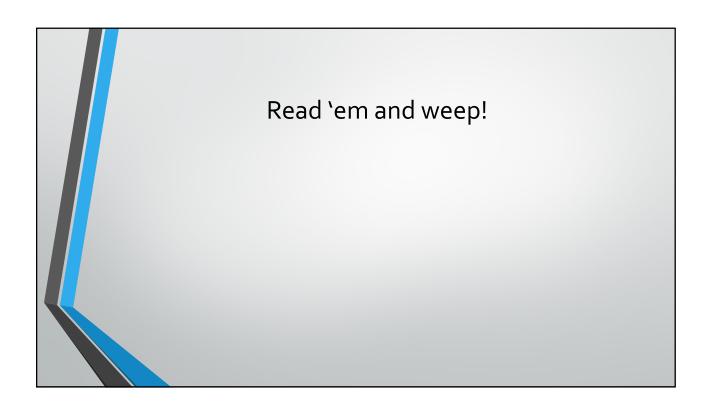


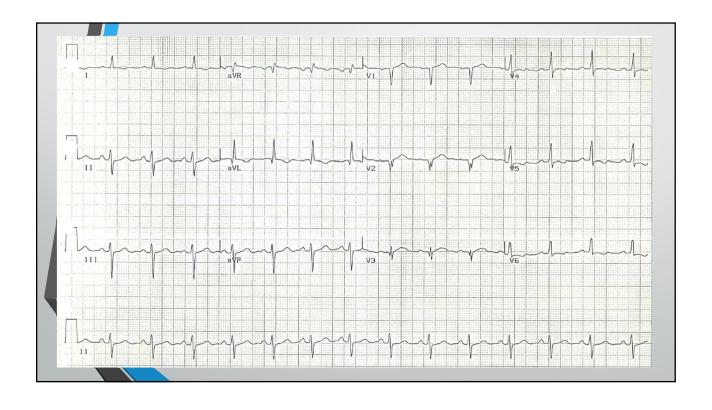


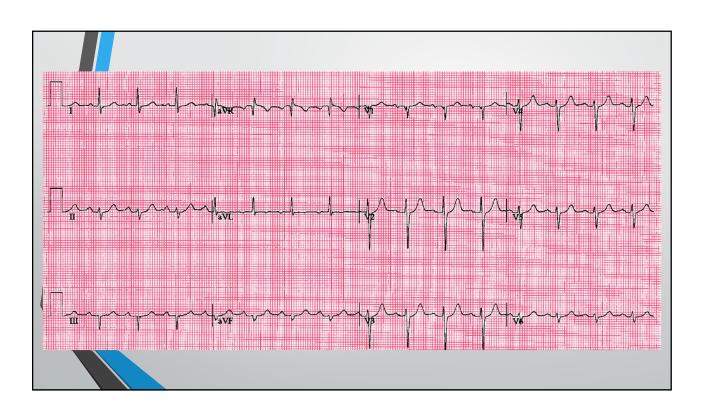


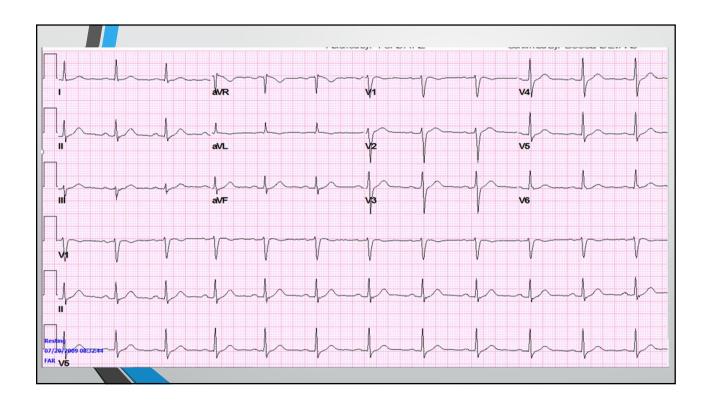


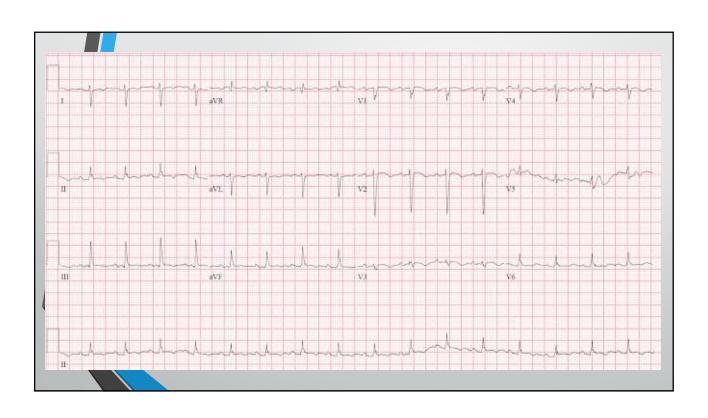


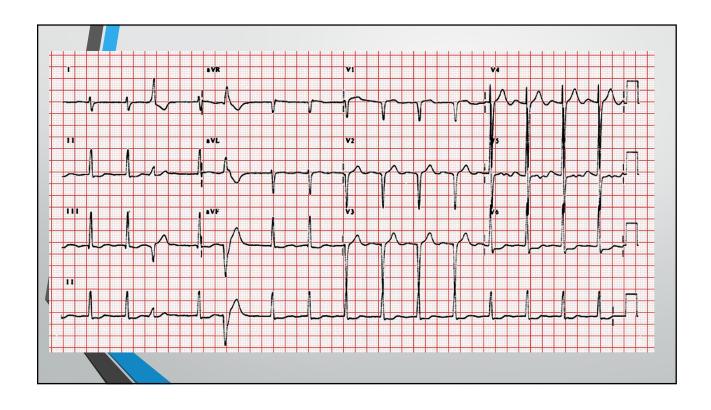


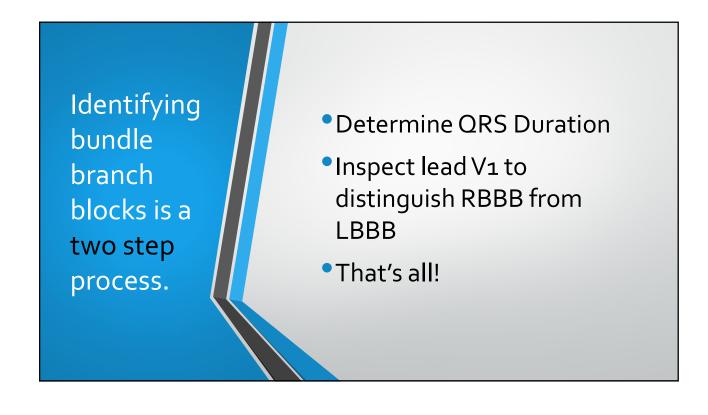


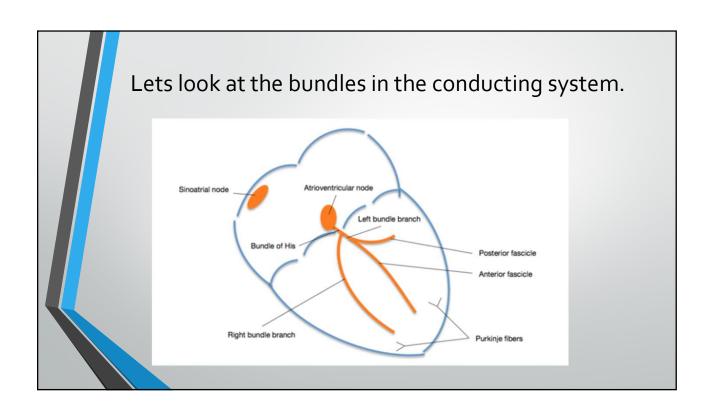


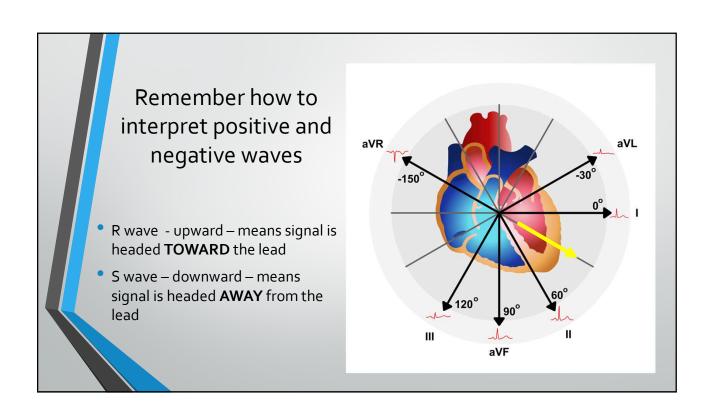


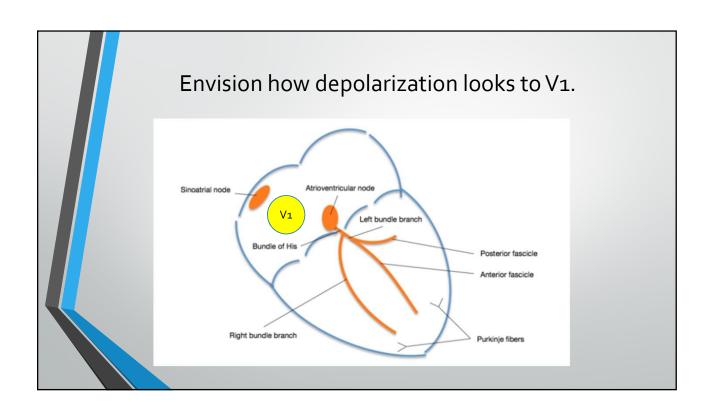


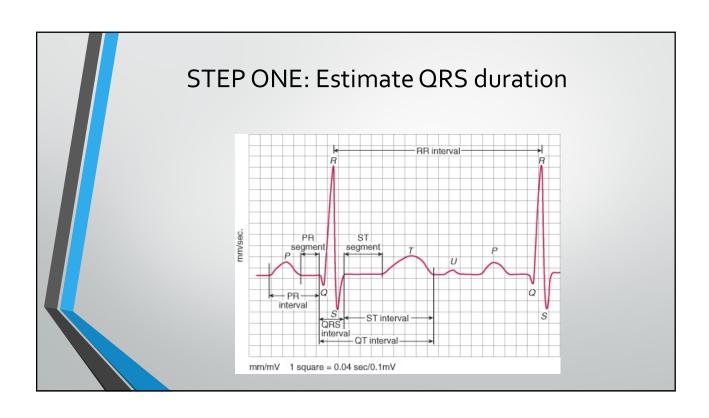


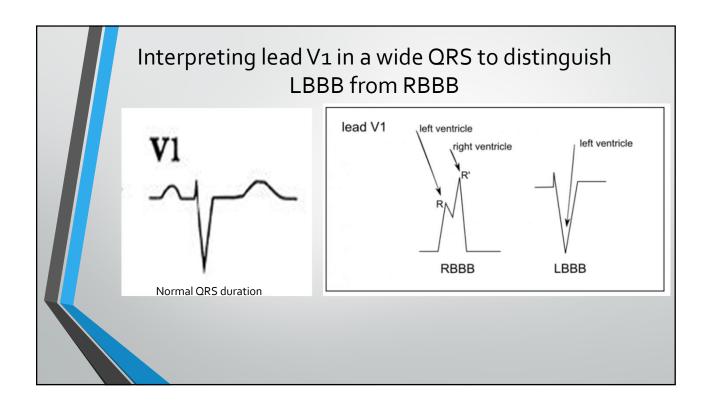






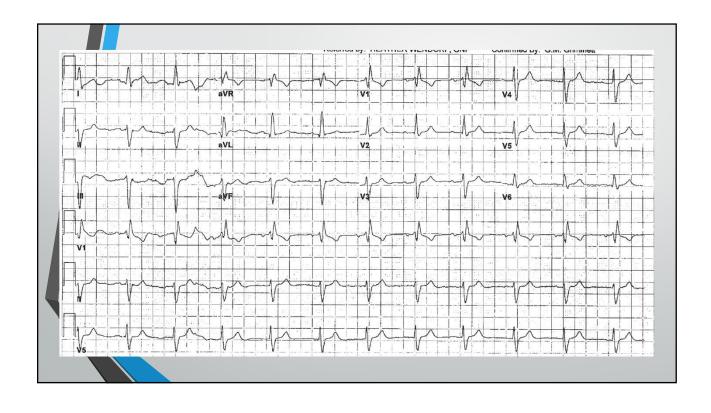


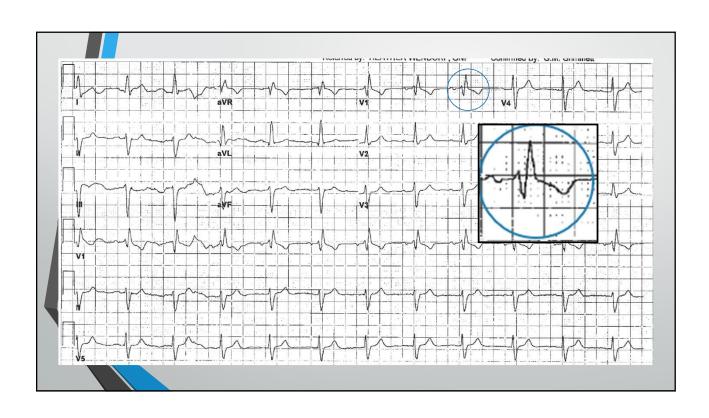


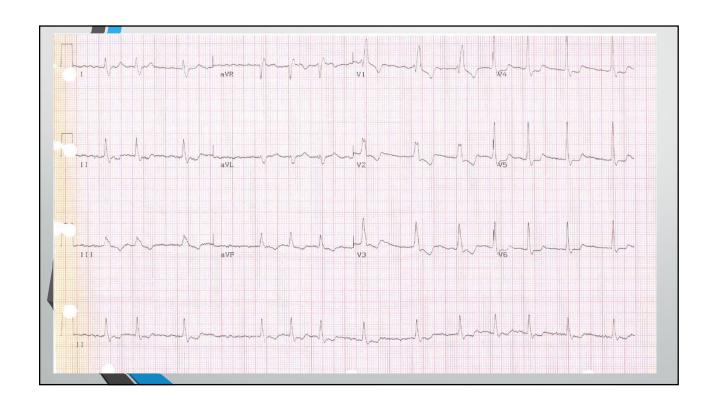


Right Bundle Branch Block - RBBB

- QRS duration greater than 120 ms (3 boxes)
- The terminal wave in V1 is POSITIVE heading toward the lead
- rsR 'Bunny ear' pattern in the anterior precordial leads (V1-V3)
- Slurred S wave in V5, V6. Also seen in I and aVL.







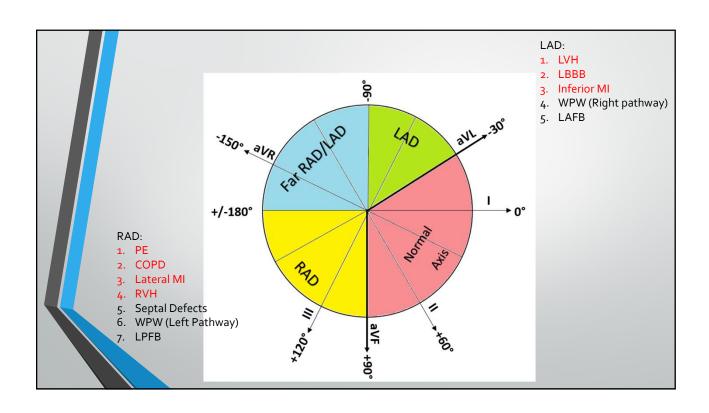
LBBB

- QRS duration greater than 120 ms (3 boxes)
- The terminal wave in V1 is **NEGATIVE** heading AWAY from the lead
- Broad monomorphic pattern in the anterior precordial leads (V1-V3)
- Broad monomorphic R waves V₅, V6. Also seen in I and aVL.









RAD: Right Ventricular Hypertrophy

Criteria:

- 1. RAD > 110°
- 2. Dominant R wave in V1 (> 7mm tall or R/S ratio > 1).
- 3. Dominant S wave in V5 or V6 (> 7mm deep or R/S ratio < 1).
- 4. QRS duration < 120ms (i.e. changes not due to RBBB).

Clinical Pearl:

Do not diagnose in presence of RBBB

