

RHYTHM

- Locate the P wave (rate, axis, morphology)
- What is the relationship between the P wave and QRS
- Analyze QRS morphology

AXIS DEVIATION

Normal (-30 to 90°)

Left

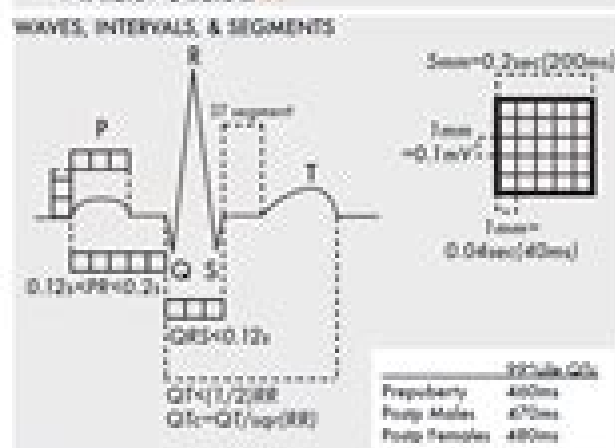
Right

Lead I QRS

Lead II, III, aVF QRS

HYPERTROPHY

- LEFT ATRIAL ENLARGEMENT (P mitrale)**
 - P wave > 0.12sec and bifid in **lead II**
- RIGHT ATRIAL ENLARGEMENT (P pulmonale)**
 - P wave > 0.25mV in **lead II**
- LVM**
 - R wave in **V3** or **V4** > 25mm
 - S wave in **V1** or **V2** > 25mm
 - Sum of R wave in **V3** or **V4** + S wave in **V1** > 25mm
- RVM**
 - R wave > S wave in **V1**



NORMAL Q WAVES

- Small (septal) q waves normal in **leads aVL, I, II, V3, V4**
- Can be normal on expiration in **lead III**

PATHOLOGICAL Q WAVES (PRIOR MI)

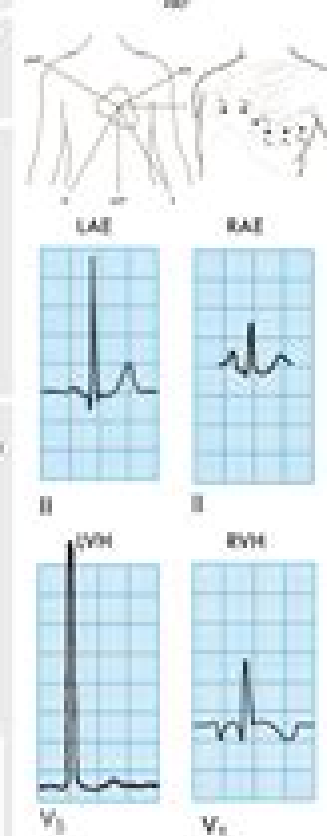
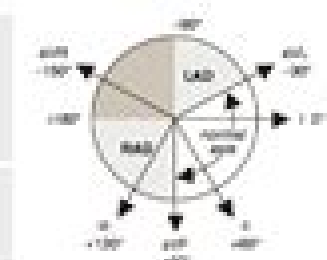
- > 1/2 small squares deep (or > 25% of R wave)
- > 1 small square wide (or 30ms)
- More likely diagnostic if with inverted T wave

DOMINANT R WAVE

- In **lead V1**: normal in young children; seen in RVH, RBB, HCM, posterior MI
- In **lead aVL**: TCA poisoning, dextrocardia, VT

POOR R WAVE PROGRESSION

- Prior anterosagittal MI, cardiomyopathy, LVH, RVH/COPD, LBB



SHARP J POINT

- ST seg. & T wave well demarcated, not merged as in STB
- J point elevation is normal in young, healthy athletes

DIFFUSE J POINT

- ST slowly curving with only an area J point can be found

ST SEGMENT ELEVATION

- (New STB at the J point)
- In **all leads** (except V3-V6), significant STE =
 - In two contiguous leads
 - > 0.1mV
- In **leads V2-V3**, significant STE =
 - > 0.15mV in women
 - > 0.2mV in men < 40yrs
 - > 0.25mV in men > 40yrs

ST SEGMENT DEPRESSION

- (New horizontal or down-sloping STD)
- Significant STD =
 - In two contiguous leads
 - > 0.05mV
- and/or
 - Twave inversion > 0.1mV in two contiguous leads with
 - Prominent R wave or R/S ratio > 1

(Known LBBB and pacing make ECG less diagnostic for ACS)

PATTERNS

- Anterior MI (LAD) = **V3-V4**
- Lateral MI (LCx) = **I, aVL, V5-V6**
- Anterolateral MI (LAD) = **I, aVL, V1-V6**
- Inferior MI (RCA, LCx) = **II, III, aVF**
- Inferolateral MI (RCA, LCx) = **I, aVL, V3-V6, II, III, aVF**
- Acute posterior MI (RCA or LCx)
 - Deepened R waves in **leads V1-V2**
 - ST depression in **V1-V2**
 - Upright, tall T waves

STEMI EVOLUTION

- Hypertonic T waves (tall, peaked, symmetric)
- STE in contiguous leads (concave = convex, merging with T wave)
- Development of Q wave and T wave inversions as ST returns to baseline

NORMAL INVERTED T WAVES

- Normal in **leads aVL, V1**
- Can be normal in **lead V2** in young pts, **lead V3** in black pts, **lead III** during expiration

INVERTED T WAVES IN ISCHEMIA

- > 0.1mV in two contiguous leads

TALL T WAVES

- < 1/2 preceding QRS

LVH → LV STRAIN PATTERN → TWI in **leads I, aVL, V3-6**

RVH → RV STRAIN PATTERN → TWI in **leads II, III, aVF**

SOURCES: ECG intervals on UpToDate (Basic principles of ECG analysis, Myocardial ischemia and infarction), Making Sense of the ECG by Houghton, Pocket Medicine by Salentine, Third Universal Definition of Myocardial Infarction by Thygesen et al. www.henrydelroaio.com; compiled by Henry Del Rosario MD; last update 5/2018

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