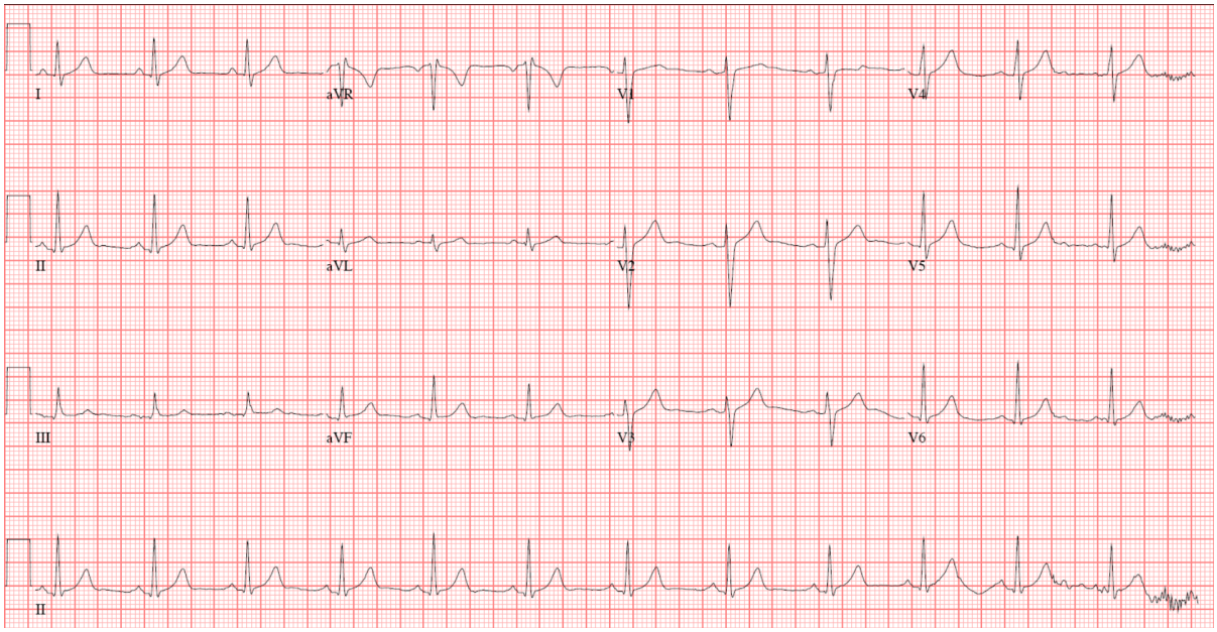
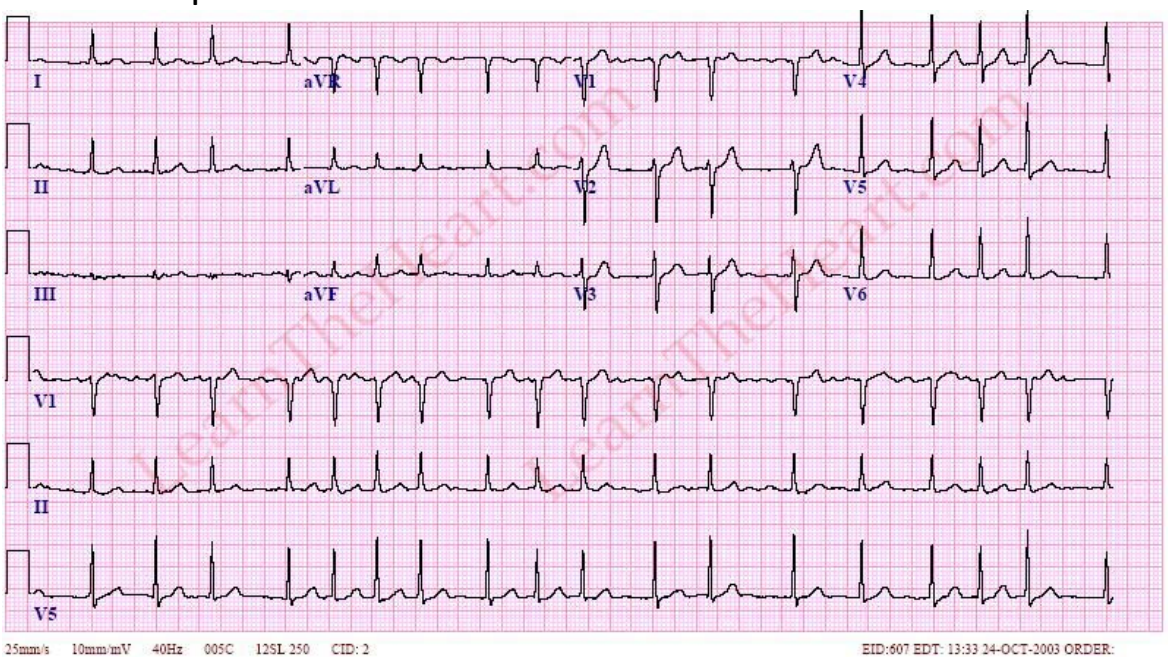
ECG DESCRIPTION – TEMPLATE AND EXAMPLES

Normal ECG



Regular action, sinus rhythm, frequency 75/min, normal axis, transition zone between V2 and V3, PR interval 160 ms, QRS 100ms, ST segment in isoelectric line, T waves positive.

Example 1

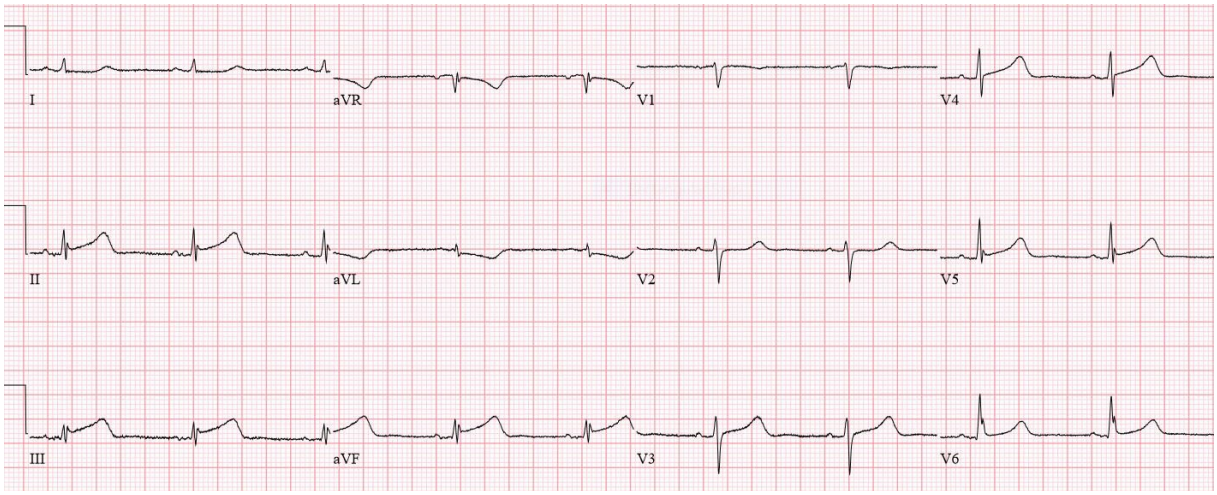


Irregular action (irregularly irregular), atrial fibrilation, frequency 108/min, normal axis, transition zone in V3-V4, QRS 80ms, ST in isoelectric line, T waves flat in III, aVL, aVF, otherwise positive.

Answer: Atrial fibrillation

Explanation: Irregularly irregular activity, no P waves, narrow QRS complexes

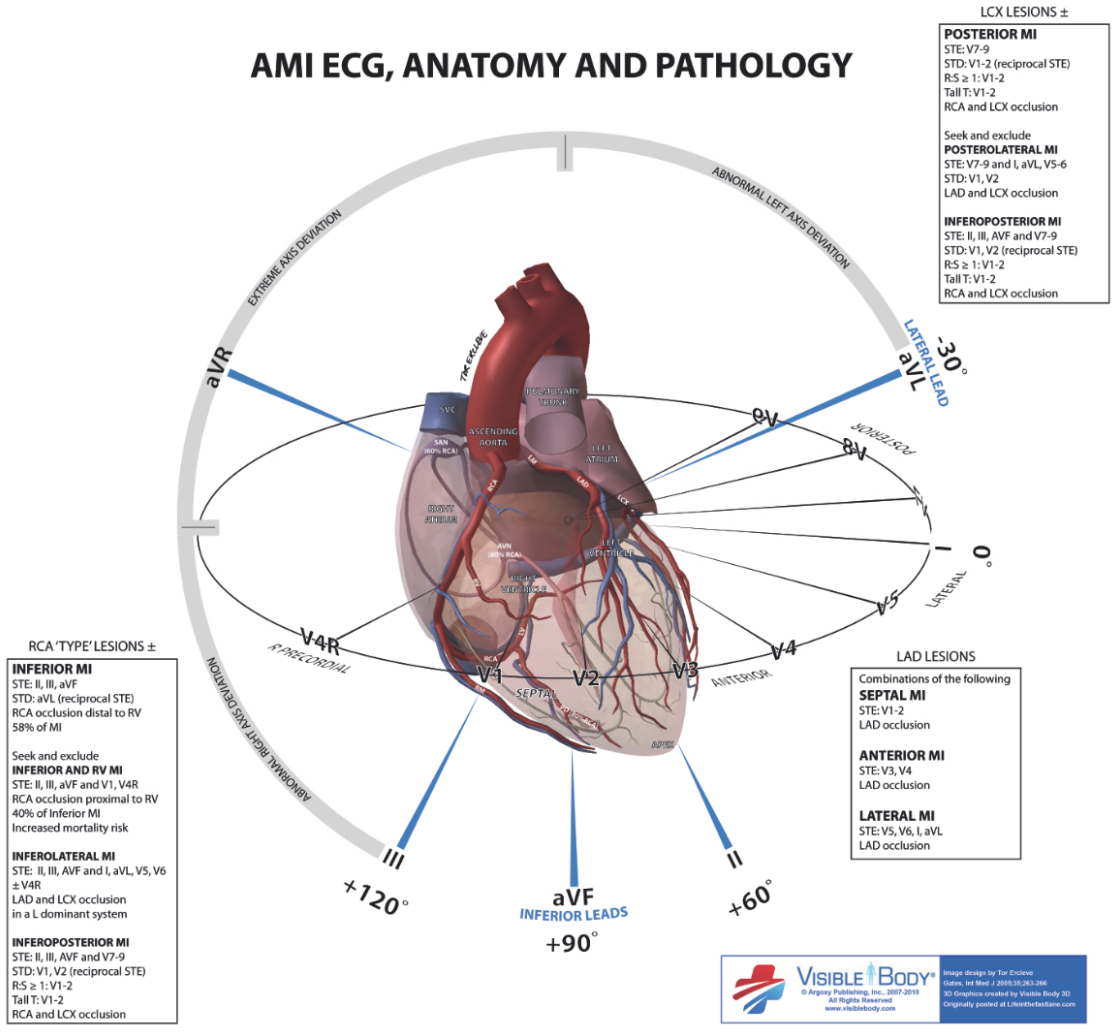
Example 2



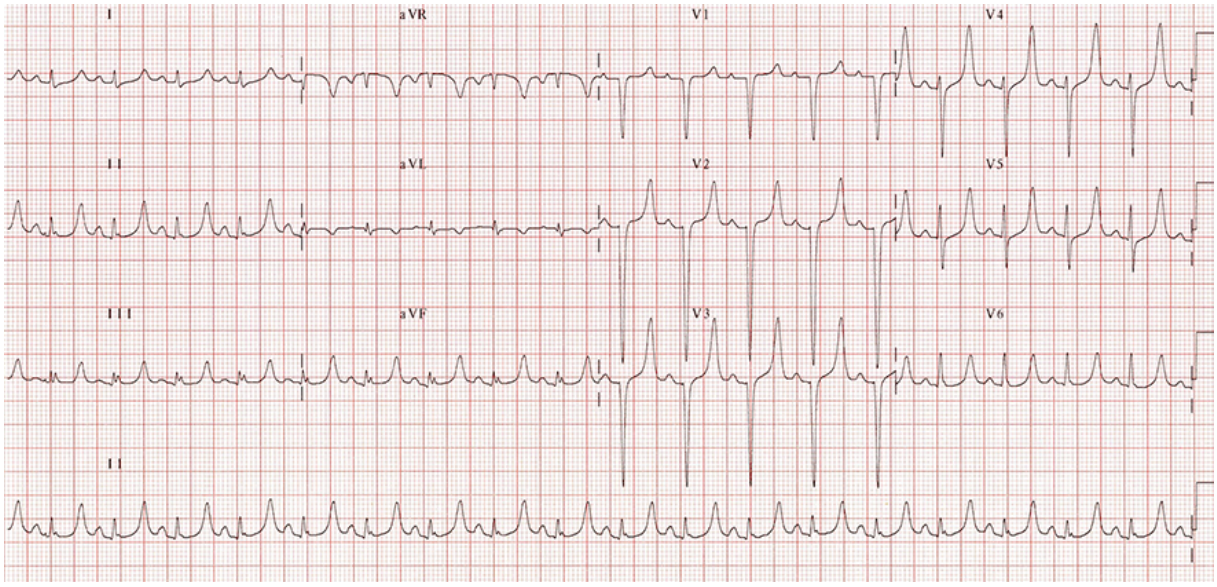
Action regular, sinus rhythm, frequency 60/min, normal axis, transition zone in V3-V4, PR 160ms, QRS 90ms, ST elevation in II, III, aVF, ST depression in aVL, negative T waves in aVL.

Answer: Inferior STEMI (**ST E**levation **M**yocardial **I**nfarction)

Explanation: Leads II, III and aVF are "looking" at the inferior wall of the heart, ST depression in aVL is the reciprocal view (from other side)



Example 3

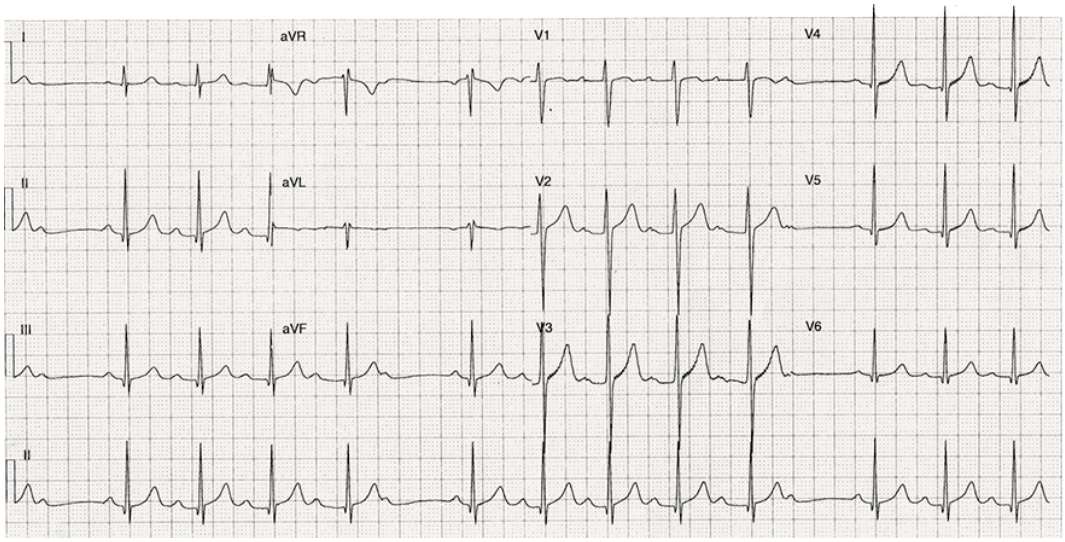


Regular action, sinus rhythm, frequency 120/min, normal axis, transition zone in V5, PR interval 140ms, QRS 80ms, ST elevation <1mm in V2 and V3, high peaked T waves in all leads except aVL.

Answer: Hyperkalemia

Explanation: High peaked T waves (resembling Eiffel tower) esp. in precordial leads, often higher than R wave

Example 4



Irregular activity, sinus rhythm, frequency 72/min, normal axis, TZ in V3, PR interval prolongating (140ms…220ms…320ms), QRS 100ms, ST segment in isoelectric line, T waves positive. Several skipped QRS complexes.

Answer: AV block 2. degree, Mobitz 1

Explanation: PR is progressively prolongating until skipped QRS complex.