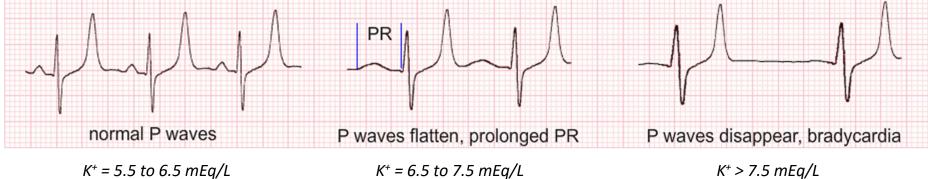
• Hyperkalemia



ECG changes depend on serum K⁺ level and rapidity of rise:

- $K^+ = 5.5 \text{ to } 6.5 \text{ mEq/L}$
 - Tall, peaked, narrow-based T waves

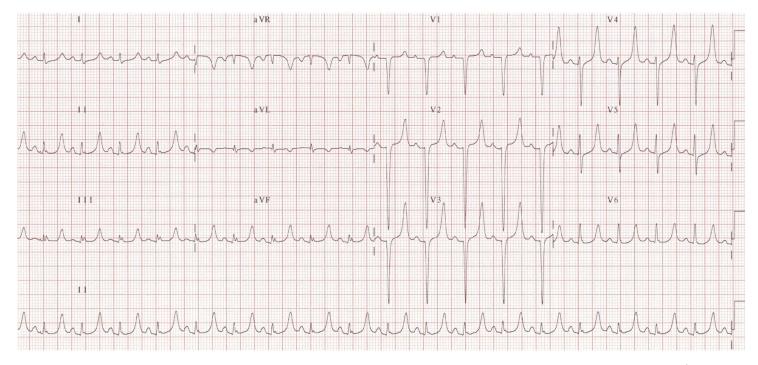
Generally defined as > 10 mm in precordial leads and > 6 mm in limb leads. May also be seen as normal variant or in acute MI, LVH, or LBBB.

- QT interval shortening
- Reversible LAFB or LPFB
- $K^+ = 6.5$ to 7.5 mEq/L
 - 1° AV block
 - Flattening and widening of the P wave
 - QRS widening

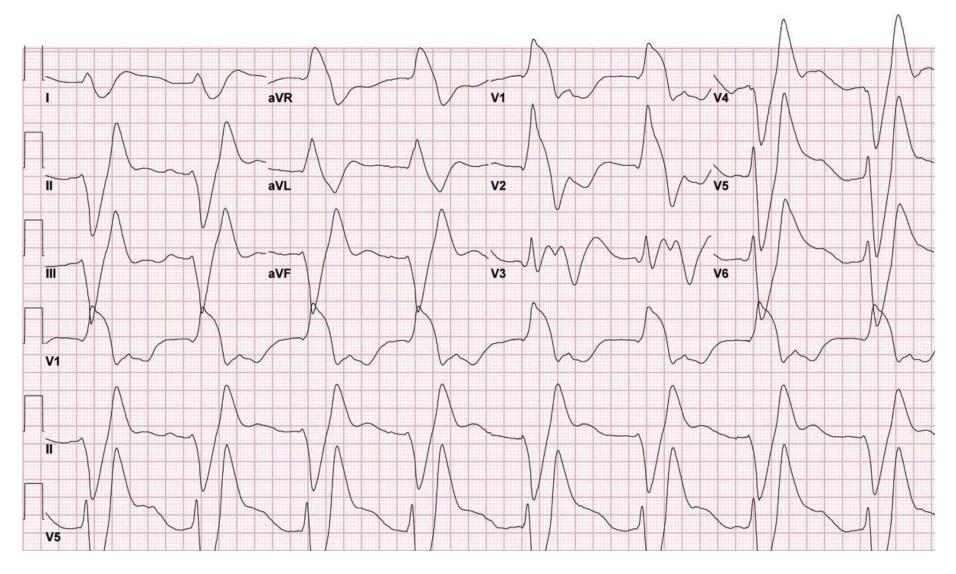
• $K^+ > 7.5 \text{ mEq/L}$

- Disappearance of P waves, which may be caused by:
 - Sinus arrest, or "Sinoventricular conduction" (sinus impulses conducted to the ventricles via specialized atrial fibers without atrial depolarization)
- LBBB, RBBB, or markedly widened and diffuse IVCD resembling a sine-wave pattern
- ST segment elevation
- Arrhythmias and conduction disturbances including VT, VF, idioventricular rhythm, asystole

An extremely wide QRS complex (>200 msec) with high-amplitude T waves (>10 mm) strongly suggests hyperkalemia.



Markedly increased size and peaked appearance of the T wave. Potassium level was 7.0 mEq/L



Severe hyperkalemia with K^+ level = 8.9 mEq/L