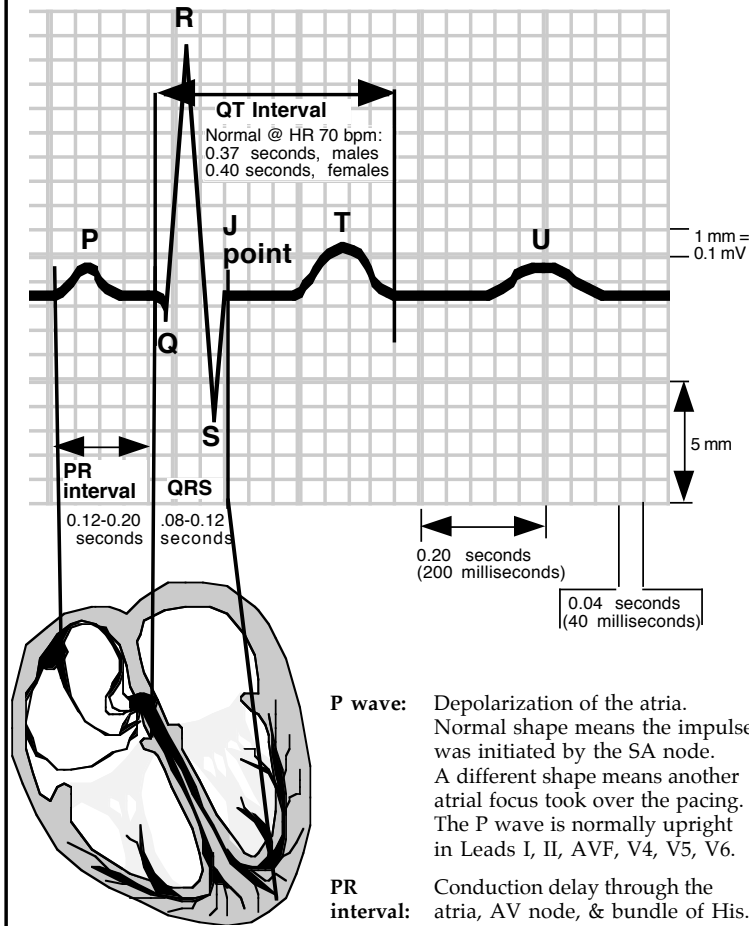


The Normal ECG



Q wave: The first negative deflection of the QRS. Normally, Q waves are small (< 1 mm tall). Q waves that are > 1 mm may be significant for pathology (ischemia, infarction).

QRS: Depolarization of the ventricles. Normally, the QRS is positive in all leads except AVR. Normal configuration and duration means the impulse was initiated by the AV node. A wide QRS means conduction was delayed through the AV node or an ectopic impulse within the ventricles initiated the impulse.

J Point: Where the S wave ends and the ST segment begins. ST segment monitoring analyzes the ST segment beginning 60 milliseconds after the J point, to minimize confusion with the upslope of the T wave.

T wave: Repolarization of the ventricles. Electrical stimulus during the T wave (R-on-T phenomenon) can cause ventricular arrhythmia.

QT interval: The distance from the Q to the end of the T wave. Prolonged by some electrolyte and metabolic imbalances. Prolonged QT can increase the chance of R-on-T phenomenon.

U wave: Probably repolarization of the Purkinje system.