



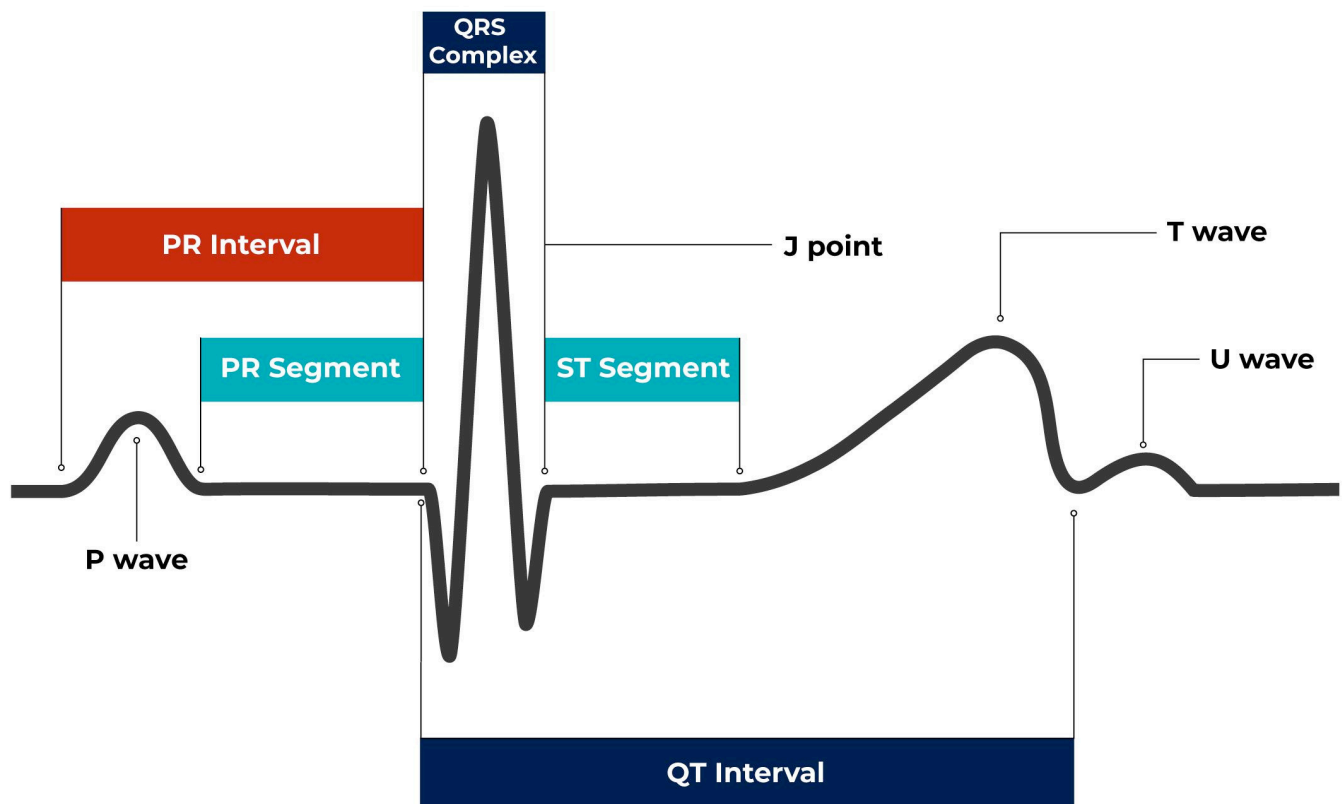
Dr. G the NP

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EKG TIP GUIDE

Cardiology Concepts Simplified

EKG ELEMENTS



P WAVE

Electricity going down the atria

PR INTERVAL

The time it takes for electrical stimuli to spread through the atria and the AV node

QRS COMPLEX

The time it takes for the electrical stimuli to spread through the ventricles

J POINT

End of the QRS complex and the start of the ST segment

T WAVE

Continuation of the electricity in the ventricles resetting

QT INTERVAL

The return of stimulated ventricles back to a resting state

U WAVE

Sometimes seen after the T wave; represents the last phase of the ventricle resetting

EKG DEFINITIONS



Intraventricular Conduction Delay (IVCD)

A general, non-specific term meaning somewhere in the ventricles electricity is conducting a little slow.

J Point Elevation

A benign ST elevation that can be found in LVH, chronic LBBBs, or even healthy, young people.

Left Anterior Fascicular Block (LAFB)

Within the left ventricle, the front wire is conducting electricity slowly.

Left Posterior Fascicular Block (LPFB)

Within the left ventricle, the back wire is conducting electricity slowly; commonly seen with a RBBB.

Left Bundle Branch Block (LBBB)

Within the left ventricle, both the front and back wires is conducting electricity very slowly.

Left Ventricular Hypertrophy (LVH)

High QRS voltage present in certain leads; can be seen in hypertension, aortic stenosis (overload states), and cardiomyopathy.

Premature Atrial Contraction (PAC)

An early beat arising from the atria but not originating from the SA node.

Premature Ventricular Contraction (PVC)

An early beat originating from the ventricles.

Poor Precordial R Wave Progression (PPRWP)

When an increase in the R/S ratio is not present in leads V1-V6; computer interpretations may call an erroneous old myocardial infarction because of PPRWP.

Right Bundle Branch Block (RBBB)

Within the right ventricle the electricity is conducting very slowly.

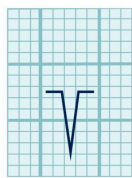
Right Ventricular Hypertrophy (RVH)

High voltage seen with a tall R wave in lead V1; may be present in congenital heart disease, pulmonary disease, or right atrial overload.

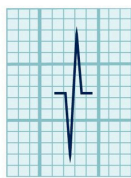
QRS MORPHOLOGY



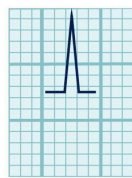
Examples of QRS Morphologies



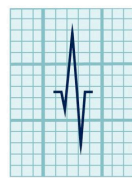
QS/Q



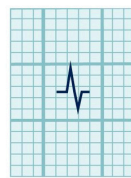
QR



R



qRS



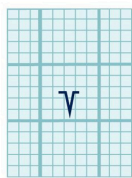
rs



rSR'



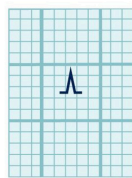
rS



qs/q



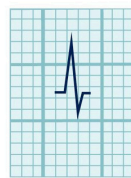
qR



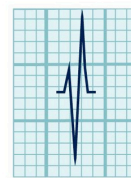
r



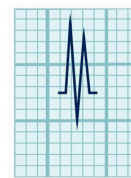
qRs



Rs



rSR'



RsR'

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