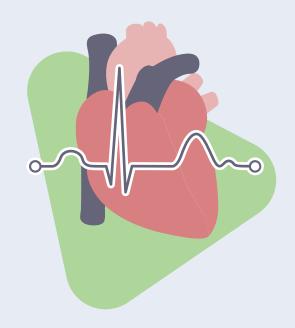
# Understanding a Normal ECG

A step-by-step breakdown of a normal electrocardiogram (ECG) to help you recognize key waveforms and intervals.



# What is an ECG?

An electrocardiogram (ECG) is a **graphical recording** of the **heart's electrical activity over time**.

quick

noninvasive

affordable

# **How it works**

By placing **adhesive electrodes** on the skin, an ECG captures electrical impulses from multiple angles, providing a **3D view** of the **conduction system, myocardium, and cardiac structures**.

In a **healthy heart**, the ECG shows **consistent**, **predictable waveforms** that correspond to normal cardiac function.

In **pathologic conditions**, an ECG can help detect:

Arrhythmias

Ischemia

Inflammation

Other abnormalities





#### **P** Wave

Represents **atrial depolarization**; should be **smooth and rounded**.

#### **PR Interval**

Measures time from **atrial to ventricular activation** (Normal: 0.12–0.20 sec).

## **QRS Complex**

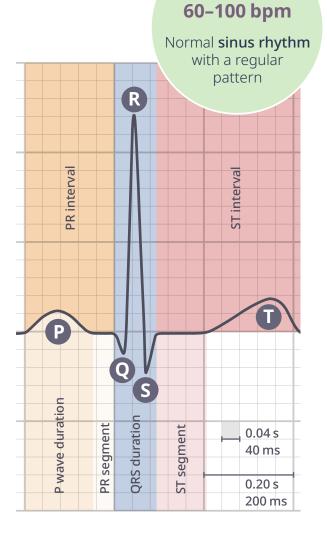
Reflects **ventricular depolarization**; normally **narrow** (<0.12 sec).

## **ST Segment**

Should be flat.

#### T Wave

Represents ventricular repolarization.



**Heart Rate** 



# Mastering normal ECG interpretation is key before recognizing abnormalities.





Want a deeper dive into ECG interpretation?

Click the link to explore the full **Concept Page**!

