

ECG Quiz PDF

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What is the primary purpose of an ECG?
○ To measure blood pressure
To measure the electrical activity of the heart
To assess kidney function
○ To evaluate lung function
Which of the following components are part of a standard ECG?
☐ P wave
☐ U wave
QRS complex
☐ T wave
Explain the significance of the QRS complex in an ECG and what it represents in terms of cardiac physiology.
Which lead system is primarily used in a standard 12-lead ECG?
○ Limb leads and chest leads
O Head leads and torso leads
O Neck leads and back leads
O Arm leads and leg leads



Which conditions can be indicated by changes in the ST segment of an ECG?
☐ Myocardinal infarction
☐ Pericarditis
Atrial fibrillation
☐ Hyperkalemia
Describe the steps involved in preparing a patient for an ECG and the importance of correct lead placement.
What is the normal range for the heart rate as determined by an ECG?
○ 40-60 beats per minute
○ 100-120 beats per minute
○ 120-140 beats per minute
○ 60-100 beats per minute
What are common causes of artifacts in ECG readings?
Patient movement
☐ Incorrect lead placement
□ Low battery in the ECG machine
☐ Electrical interference
Discuss how an ECG can be used to diagnose atrrial fibrillation and the characteristic features seen

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on the ECG.



What does a prolonged QT interval on an ECG suggest?
○ Hypercalcemia
○ Right bundle branch block
○ Sinus tachycardia
○ Long QT syndrome
Which electrolyte imbalances can be detected through changes in an ECG?
☐ Hyperkalemia
☐ Hypernatremia
Hyponatremia
☐ Hypokalemia
Explain the clinical significance of detecting a right bundle branch block on an ECG and how it appears.
Which wave on the ECG represents atrrial depolarization?
○ P wave
○ R wave
○ T wave
○ Q wave

Which of the following ECG changes might indicate left ventricular hypertrophy?



☐ Increased R wave amplitude in V5 and V6	
☐ Prolongued QT interval	
ST segment depression	
Deep S wave in V1	
Describe how myocardial infarction is identified on	an ECG and the changes that occur over time.
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What is the typical duration of a normal PR interval	on an ECG?
○ 0.04-0.08 seconds	
○ 0.20-0.24 seconds	
○ 0.24-0.30 seconds	
O.12-0.20 seconds	
Which of the following are considered arrhythmias	detectable by ECG?
☐ Atrial flutter	
Sinus bradycardia	
Hypertension	
☐ Ventricular tachycardia	
Discuss the importance of calibration and standard accuracy of the readings.	ization in ECG machines and how it affects the
	/1

What is indicated by an inverted T wave on an ECG?



○ Normal finding	
○ Hypercalcemia	
○ Atrial enlargement	
○ Myocardinal ischemia	
Which conditions can cause a prolonged PR interval on an ECG?	
First-degree heart block	
☐ Hypothyroidism	
Atrial fibrillation	
☐ Hypercalcemia	
Evaluate the significance of ECG in emergency medicine and its role in the rapid assessment of patients.	
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What does the T wave on an ECG represent?	
○ Atrial repolarization	
○ Ventricular depolarization	
○ Atrial depolarization	
Ventricular repolarization	
What are potential clinical applications of an ECG?	
☐ Diagnosing cardiac arrhythmias	
Assesssing lung function	
Evaluating heart valve function	
Monitoring the effects of cardiac medications	
Analyze the limitations of ECG in diagnosing cardiac conditions and suggest ways to overcome	

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these limitations.



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What is the primary characteristic of a normal sinus rhythm on an ECG?	
○ Irregular heart rate	
○ Absence of P waves	
○ Inverted QRS complex	
Regular heart rate with a P wave before each QRS complex	
Which factors can affect the accuracy of an ECG reading?	
Which factors can affect the accuracy of an ECG reading? □ Patient's age	
☐ Patient's age	
☐ Patient's age ☐ Lead misplacement	
Patient's age Lead misplacement Poor skin contact	
 □ Patient's age □ Lead misplacement □ Poor skin contact □ Ambient temperature Explain the role of ECG in monitoring treatment efficacy for cardiac conditions and provide	
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