



LIMB LEADS		PRECARDIAL LEADS	
I LCX LATERAL	aVa	V <sub>1</sub> LAD SEPTAL	V <sub>4</sub> LAD ANTERIOR
II RCA INFERIOR	aV <sub>L</sub> LCX LATERAL	V <sub>2</sub> LAD SEPTAL	V <sub>5</sub> LCX LATERAL
III RCA INFERIOR	aV <sub>F</sub> RCA INFERIOR	V <sub>3</sub> LAD ANTERIOR	V <sub>6</sub> LCX LATERAL

## AXIS

Right →  
 QRS down in I  
 Left →  
 QRS down in aV<sub>F</sub>

## CARDIAC CONDUCTION

**SA node** → P →

activation initiated wave of depolarization through TA, and through Bachmann's bundle to LA, stimulating atrial contraction

**AV node** → P-R INTERVAL

wave of depolarization travels to AV node to connect atria and ventricles and pauses, allowing atrial systole to finish before ventricular systole begins

→ **PURKINJE** → **QRS COMPLEX**  
**BUNDLE BRANCHES**

after pause at AV node, wave of depolarization spreads rapidly down bundle branches to Purkinje fibers then distributed into ventricular myocardium

**LOOK FOR:**  
 each QRS preceded by a P,  
 no extra waves

**LOOK FOR:**  
 PR interval  $< 200$  ms,  
 proper conduction delay

**LOOK FOR:**  
 ~ 1 QRS per second indicating normal HR,  
 normal QRS interval  $< 120$  ms

# Basic Ekg Study Guide

**Camilla Rothe**



## **Basic Ekg Study Guide:**

**The Complete Study Guide to Learning the Electrocardiogram** Douglas Martin, Douglas Martin Msn Rn, 2007-02-26  
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Critical care medicine is a dynamic and exciting arena where complex pathophysiologic states require extensive knowledge and up to date clinical information An extensive knowledge of basic pathophysiology as well as awareness of the appropriate diagnostic tests and treatments that are used to optimize care in the critically ill is essential Since our first edition 7 years ago new information crucial to the care and understanding of the critically ill patient has rapidly accumulated Because this knowledge base crosses many different disciplines a comprehensive multidisciplinary approach presenting the information is essential similar to the multidisciplinary approach that is used to care for the critically ill patient We have strived to provide this content in an easily digestible format that uses a variety of teaching tools to facilitate understanding of the presented concepts and to enhance information retention To meet the demand to provide comprehensive and diverse education in order to understand the pathogenesis and optimum care of a variety of critical illnesses we have substantially revised the prior topics in the first edition with updated information We have also markedly expanded the number of topics covered to include acute lung injury and the acute respiratory distress syndrome an expanded discussion of the physiology and operation of mechanical ventilation obstetrical care in the ICU neurosurgical emergencies acute coronary syndromes cardiac arrhythmias role of whole body rehabilitation in the ICU ethical conduct of human research in the ICU and nursing care of the ICU patient

*ECG/EKG Interpretation Study Guide & Workbook by Nurse Sarah* Nurse Sarah,2024-08-21 ECG EKG Interpretation Study Guide and Workbook by Nurse Sarah This book contains Nurse Sarah's own personal notes and memory tricks to help you learn and retain important ECG concepts for nursing school nursing exams and while working as a nurse Nurse Sarah has condensed and illustrated her YouTube lectures into these easy to read study notes for quick review This book contains beautiful colors and illustrations to make studying ECG rhythms fun Included are 26 ECG rhythm breakdowns 51 ECG rhythm analysis practice problems 100 comprehensive ECG practice questions chart summaries and more Also included are colorful worksheets that feature labeling fill in the blank select all that apply multiple choice true and false The following chapters are included Chapter 1 Quick Reference Tables Cardiac Labs to Know Cardiac Medications to Know Vital Signs Cardiac Measurements Top Rhythms at a Glance ECG Changes to Know at a Glance Chapter 2 Heart Anatomy Assessment Layers of the Heart Heart Anatomy Blood Flow of the Heart The Cardiac Cycle Heart Auscultation Electrical Conduction System Coronary Arteries Angina Chapter 3 ECG Basics ECG Lead Placement ECG Lead Views Coronary Arteries ECG

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