

## Sinus Bradycardia



### Characteristics

Normal sinus rhythm with a heart rate  $< 60$  bpm  
Consistent P wave  
PR: 0.12-0.20  
QRS:  $< 0.12$   
QT:  $< 1/2$  R to R

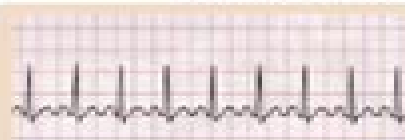
### Physical Manifestations

May be asymptomatic  
Lightheaded  
Syncope  
Chest pain  
Hypotension

### Treatment

Treat symptomatic bradycardia:  
Atropine  
Epinephrine  
External Pacemaker in an emergency

## Sinus Tachycardia



### Characteristics

Normal sinus rhythm with a heart rate of  $> 100$  bpm  
Consistent P wave  
PR: 0.12-0.20  
QRS:  $< 0.12$   
QT:  $< 1/2$  R to R

### Physical Manifestations

Subjective: feeling of anxiety, racing heart, or chest pain  
Objective: decreased BP,

### Treatment

Sinus tachycardia is always a symptom of something else: treat the underlying cause  
Encourage rest  
Administer CCBs like Cardizem or diltiazem

## Atrial Fibrillation



### Characteristics

A lot of ectopic cells in atria causing it to be "irregularly irregular."  
Paroxysmal or persistent  
Random QRS spacing  
No clear P wave

### Physical Manifestations

Irregular fast heart rate  
Patients may feel like their heart is racing, or chest pain

### Treatment

Because of the increased risk of clots you want to give blood thinners like heparin  
Control HR: give CCBs (Cardizem), amiodarone  
Cardioversion in extreme cases

## Atrial Flutter



### Characteristics

A lot of ectopic foci synchronized with each other. SA node firing over and over again. No pause for QRS  
HR:  $< 200$ , no P wave, skinny QRS  
Regular saw tooth wave pattern

### Physical Manifestations

LOC changes  
Irregular fast heart rate  
Patient may feel like their heart is racing, chest pain

### Treatment

Give Heparin and amiodarone  
Cardiovert back into sinus rhythm  
Long-term: Beta blockers (metoprolol), CCBs (Cardizem)

## Supraventricular Tachycardia



### Characteristics

HR  $> 100$  (faster than sinus tach)  
Skinny QRS, lump in middle  
Paroxysmal  
Sinus node is not getting a chance to fire

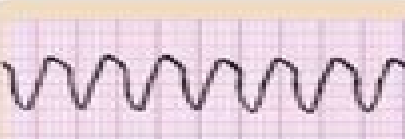
### Physical Manifestations

Fainting, dizziness  
Chest pain  
Rapid pulse  
Diaphoretic

### Treatment

1: Vagal Maneuvers (like a deep cough)  
2: Stable: give Adenosine rapid IV push (6-12-12)  
3: Unstable: Cardioversion

## Ventricular Tachycardia



### Characteristics

Fast PVCs, no atrial kick  
Paroxysmal  
HR: 150s, fast but not as fast as SVT  
No P wave

### Physical Manifestations

Cardiac Arrest!!  
SOB, chest pain, dizzy, lightheaded, nausea  
Palpitations

### Treatment

Pulseless: code, CPR, Defib  
Unstable w/ pulse: cardioversion (keep filling pulse)  
Stable: Try vagal maneuver and adenosine. Amiodarone, cardioversion

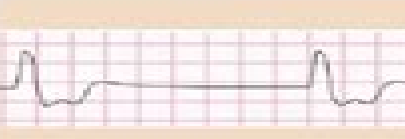
## Ventricular Fibrillation



### Characteristics

A lot of ectopic foci in ventricles  
No P, QRS, T  
Basically a wavy line  
Lethal

## Idioventricular



### Characteristics

HR: slow, 40-60  
No P wave  
QRS: abnormal wide shape ( $> 0.12$ )  
SA node does not fire, AV node takes over

# Ecg Study Guide

**James H. O'Keefe (Jr.), Stephen C.  
Hammill, Mark S. Freed**



## **Ecg Study Guide:**

*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 break downs 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 Waveform Explained Steps to Analyzing an ECG Rhythm Chapter 4 ECG Rhythm Interpretation Normal Sinus Rhythm Sinus Bradycardia Sinus Tachycardia Supraventricular Tachycardia Sinus Arrest Pause Atrial Fibrillation Atrial Flutter PACs and PJs Wandering Atrial Pacemaker and Multifocal Atrial Tachycardia Ventricular Tachycardia PVCs Ventricular Fibrillation First Degree AV Heart Block Second Degree AV Block Type 1 Mobitz I Wenckebach Second Degree AV Block Type 2 Mobitz II Third Degree AV Heart Block Complete Asystole Junctional Escape Accelerated Junctional Junctional Tachycardia Pulseless Electrical Activity PEA Right Bundle Branch Block Left Bundle Branch Block Name Each Rhythm Review Chapter 5 ECG Worksheets Test Answers Worksheets and Answers Your Turn ECG Analysis Practice Your Turn ECG Analysis Answers Comprehensive ECG Test Quick ECG Reference Summaries References Nurse Sarah BSN RN is the lead educator for the RegisteredNurseRN brand Her YouTube channel has over 3 million subscribers and hundreds of millions of views from around the world **The Complete Study Guide to Learning the Electrocardiogram** Douglas Martin, Douglas Martin Msn Rn, 2007-02-26 5 00 Download 12 50 Printed book 100pages \_\_\_\_ Written by healthcare professionals in an easy to read and understand format The guide will teach you the basics of cardiac A P EKG paper measurements waveform components and how it applies to the electrocardiogram Further this guide covers EKG rhythms from normal sinus rhythm to lethal cardiac arrhythmias To test your knowledge and aid you in real life interpretation of EKG rhythms a workbook and answer key is also provided The workbook contains over 50 major EKG rhythms and arrhythmias along with a helpful answer key so you can check your work Also provided is a handy pocket guide that contains all EKG rhythms at a glance along with normal and abnormal EKG rhythm measurements **The Complete Guide to ECGs** James H. O'Keefe (Jr.), Stephen C. Hammill, Mark S. Freed, 2019-11-27 The Complete Guide to ECGs is ideal for physicians physicians in training and other

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**Study Guide and Procedure Checklist Manual for Kinn's The Medical Assistant - E-Book** Brigitte

Niedzwiecki, Julie Pepper, 2022-09-08 Designed to support the trusted content in Kinn's The Medical Assistant 15th Edition this study guide is an essential review and practice companion to reinforce key concepts encourage critical thinking and help you apply medical assisting content This robust companion guide offers a wide range of activities to strengthen your understanding of common administrative and clinical skills including certification preparation questions a review of medical terminology and anatomy and application exercises Trusted for more than 65 years as a key part of the journey from classroom to career it also features competency checklists to accurately measure your progress and performance from day one until you land your first job as a medical assistant Comprehensive coverage of all administrative and clinical procedures complies with accreditation requirements Approximately 190 step by step procedure checklists enable you to assess and track your performance for every procedure included in the textbook Chapter by chapter correlation with the textbook allows you to easily follow core textbook competencies Matching and acronym activities reinforce your understanding of medical terminology anatomy and physiology and chapter vocabulary Short answer and fill in the blank exercises strengthen your comprehension of key concepts Multiple choice questions help you prepare for classroom and board exams Workplace application exercises promote critical thinking and job readiness before you enter practice Internet exercises offer ideas for expanded and project based learning NEW Content aligns to 2022 Medical Assisting educational competencies NEW Advanced Clinical Skills unit features three new chapters on IV therapy radiology basics and radiology positioning to support expanded medical assisting functions NEW Coverage of telemedicine enhanced infection control related to COVID 19 and catheterization NEW Procedures address IV therapy limited scope radiography applying a sling and coaching for stool collection UPDATED Coverage of administrative functions includes insurance coding privacy security and more EXPANDED

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**Pharmacotherapy Principles and Practice Study Guide** Michael D. Katz, Kathryn R. Matthias, Marie A. Chisholm-Burns, 2010-12-17 A case based companion study guide to Pharmacotherapy Principles and Practice 2e learn how to apply your knowledge to actual patient situations Pharmacotherapy Principles and Practice Study Guide uses 98 cases to help you learn how to apply pharmacotherapeutic concepts to specific patient situations Each case is presented in a consistent manner similar to what you would see in a clinical setting and focuses on one primary topic or problem Patients discussed in these cases will have drug therapy problems requiring identification and management For each case you will be asked to develop a Patient Database Drug Therapy Problem Worksheet and Pharmacotherapy Care Plan using the forms

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