

EKG INTERPRETATION



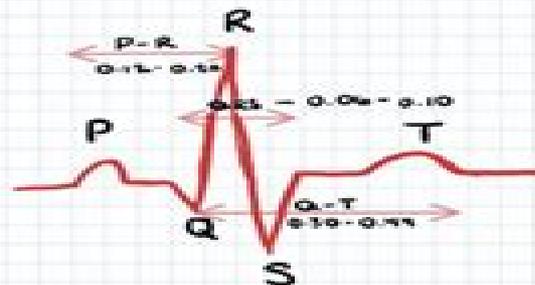
8-STEP ANALYSIS

- 1 **Regular?** Are the R-R intervals regular? Can this be considered regular if there are dropped beats. The R-R should not vary more than 0.16 sec (4 boxes)
- 2 **Rate?** Identify both the atrial and ventricular rates. Are they the same?
 Tachycardic = > 100 BPM Bradycardia = < 60 BPM
- 3 **P-waves?** What's the frequency / configuration of P-waves? Do they all occur before the QRS? If P waves are upright in lead II the beat likely originates in the SA node. If P wave occurs after QRS → Junctional
- 4 **P-R interval?** Is P-R between 0.12-0.20 seconds? PR < 0.12 → beat originated somewhere else in atria. P-R > 0.20 → delay in conduction. Inconsistent P-R → could indicate heart block.
- 5 **QRS Complex?** QRS 0.08-0.12 = normal. QRS > 0.12 sec → Conduction delay. QRS > 0.16 → beat originated below AV node or bundle branch block.
- 6 **Q-T interval?** Q-T interval should be 0.36-0.44 seconds. A prolonged QT can be caused by certain drugs, ↓ K⁺ or ↓ Mg, renal dysfunction etc.
- 7 **Anything Else?** Are T waves normal, peaked or inverted? Is there ST elevation or depression? Are U waves present?
- 8 **Name it** Where does the rhythm originate? Is it sinus, atrial, junctional or ventricular? Tachy or Brady? Are there any other abnormalities or heart blocks?

NORMAL SINUS RHYTHM



- Rate: 60-100
- P waves have consistent shape
- Every P wave precedes a QRS
- Regular rhythm



SINUS TACHYCARDIA



- HR > 100 BPM
- Normal P & T waves
- Regular rate + rhythm

Tx: Airway, O₂, ECG, IV access

- If unstable → Synchronized cardioversion
 ↳ Atrial LK, DVTs, Shock, & BP
- If wide QRS → Antiarrhythmic
 ↳ > .12 sec
 [- Amiodarone
 - Procainamide
 - Sotalol]
- If neither → Vagal maneuver + Adenosine
 or β-blocker or Ca²⁺ channel blocker

2013 Ekg Study Guide

Marti A Burton, Linda J May Ludwig



2013 Ekg Study Guide:

Study Guide for Today's Medical Assistant Kathy Bonewit-West, Sue Hunt, Edith Applegate, MS, 2012-10 Chapter assignment tables at the beginning of chapters guide you through textbook and study guide assignments and make it easy to track your progress Laboratory assignment tables list the procedures in each chapter including study guide page number references and indicate the procedures shown on the DVDs A pretest and posttest in each chapter measure your understanding with 10 true false questions Key term assessments include exercises to help in reviewing and mastering new vocabulary Evaluation of Learning questions let you assess your understanding evaluate progress and prepare for the certification examination Critical thinking activities let you apply your knowledge to real life situations Practice for Competency sections offer extra practice on clinical skills presented in the book Evaluation of Competency checklists evaluate your performance versus stated objectives and updated CAAHEP performance standards Updated content includes exercises for topics such as electronic medical records advanced directives HIPAA emergency preparedness ICD 10 coding documentation medical office technology medical asepsis vital signs pediatrics colonoscopy IV therapy and CLIA waived tests New activities provide practice for the Today's Medical Assistant textbook's newest and most up to date content New Emergency Protective Practices for the Medical Office chapter includes procedures critical thinking questions and other activities to help you understand emergency preparedness New Wheelchair Transfer Procedure and Evaluation of Competency checklist includes a step by step guide to this important procedure New video evaluation worksheets on the Evolve companion website reinforce the procedures demonstrated on the textbook DVDs New practicum and externship activities on Evolve provide practice with real world scenarios

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fundamentals of pharmacology with a focus on the various body systems Drug classifications names sources and development serve as essential foundations Furthermore this volume uniquely discusses that understanding pharmacokinetics pharmacodynamics pharmacogenomics and drug toxicity is crucial before addressing medications clinical indications mechanisms of action adverse effects and contraindications Readers will encounter clinical case studies at the end of each chapter accompanied by questions that provide real world scenarios Helpful appendices address high alert medications dosage calculations and answer keys Key Features This book highlights both basic pharmacology including pharmacodynamics and pharmacokinetics and clinical pharmacology Each chapter will cover indications mechanisms of action adverse effects and contraindications This book begins with a detailed introduction to the origins of pharmacology and drug effects on various body systems which are crucial to today s pharmacology environment Pharmacology is a multidisciplinary science by its nature Hence disciplinary areas include chemistry biology and neuroscience This book benefits health providers without in depth training in pharmacology such as pharmacy technicians medical assistants dental students medical students nurse practitioners physician assistants surgical technicians and physical therapists

Complex Coronary Intervention, An Issue of Interventional Cardiology Clinics Michael Lee,2016-04-20 This issue of the *Interventional Cardiology Clinics* edited by Michael Lee covers all key aspects of complex coronary intervention Topics include but are not limited to Saphenous Vein Interventions Atherectomy Devices for the Treatment of Calcified Lesions Bifurcation Stenting Chronic Total Occlusion Multivessel Coronary Artery Disease Management of Complications Perforation Dissection Thrombosis Antithrombotic Therapy in Percutaneous Coronary Intervention and Acute Myocardial Infarction Thrombectomy

EKG Technician Study Guide Ph D Jane John-Nwankwo, RN,2020-09-21 This is a concise but straightforward study guide used by hundreds of students for the EKG national certification exam Included in the book are Duties of an Electrocardiograph technician General anatomy of the heart Internal heart structure Coronary Circulation Heart physiology Basic electrophysiology Conduction system of the heart Fundamentals of electrocardiogram The electrocardiographic grid waves Definition of waves segments intervals and junctions The normal electrocardiograph waves and complexes The normal EKG segments intervals and Junctions Analyzing the EKG strip EKG interpretation and Pathology Recordings with diagrams Artifacts of EKG Recording with diagrams 400 Practice Questions for the national certification Exam for EKG Technicians

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