

ADDITIONAL HYPERTROPHY CRITERIA

Cornell Voltage Criteria (Diagnosis of LVH)

Men	S in V3 + R in aVL >28mm
Women	S in V3 + R in aVL >20mm

Estes-Ronihilt Point Score System (5=LVH, 4=probable LVH)

i. R or S in limb lead	≥20mm	3 pts
	S in V1, V2, or V3	≥25mm
	R in V4, V5, or V6	≥25mm
ii. Any ST shift (without digitalis)		3 pts
iii. Typical "strain" ST-T (with digitalis)		1 pts
iv. LAD -15°		2 pts
v. QRS interval ≥0.09 sec		1 pts
vi. Intrinsicoid deflection in V5-V6 ≥0.04 sec		1 pts
vii. P-Terminal force in V1 >0.04 sec		3 pts
Total		13 pts



EARLY REPOLARIZATION

- A common ECG variant characterized by J point elevation <3 mm in contiguous leads. Presenting most often in young, athletic persons with sinus bradycardia.
- Most common in leads V2, V3 and inferior (II, III, aVF)
- If patient presents with chest pain, LAD occlusion must be ruled out using the LAD-BER Formula



INFARCT LOCALIZATION

Location	ST Elevation	Reciprocal
Inferior <small>(right coronary artery)</small>	II, III, aVF	V1-V6
Right Ventricular <small>(right coronary artery)</small>	V1+III>II	
Lateral Wall <small>(left coronary)</small>	I, aVL, V5-V6	
Anterior Wall <small>(left anterior descending)</small>	V1-V4	II, III, aVF
Posterior Wall (R:S>1, V1-2) <small>obscure branches of left coronary or right coronary artery</small>	V7-V9	V1-V3

INFARCT MORPHOLOGY

Ischemia (ST-depression (Blue) or T wave inversion)

- T waves usually upright in leads with dominant R wave
- Inverted symmetrical T waves (Red)

Injury (Signifies an acute event)

- S-T segment elevation (Red) >1mm
- Tall, peaked T waves
- T wave inversion

Infarct (Significant Q wave)

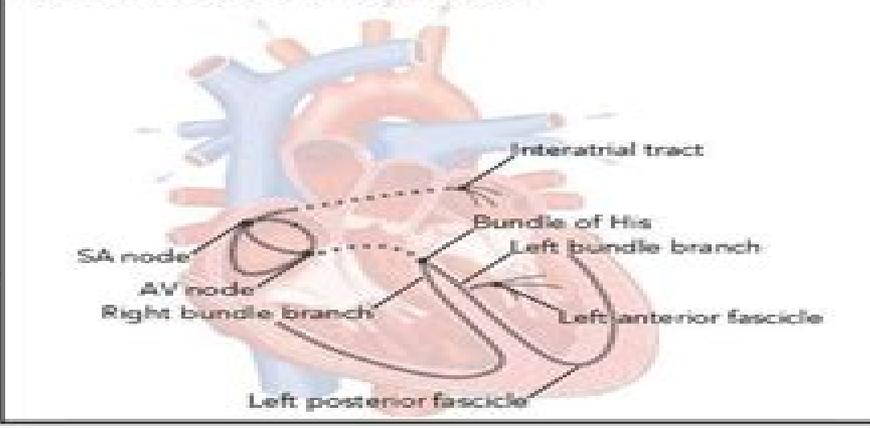
- Small Q waves may be normal (Blue)
- Significant Q wave (>1mm or >1/4 of the total ventral magnituded of the QRS complex) (Red)



COMMON ELECTROLYTE IMBALANCES

Hypocalcemia <small>Mild (<2.0mg/dL)</small>		Prolonged QT (& QTc) interval due to S-Tsegment prolongation.
Hypercalcemia <small>Mild (>2.0mg/dL)</small>		Shortened QT interval or Osborne (J) waves, if severe.
Hypokalemia <small>Moderate (>2mg/dL)</small>		T wave flattened (or inverted) with U waves appearing.
Hyperkalemia <small>Mild (>1.5mg/dL)</small>		Flattened P wave, wide QRS complex & peaked T waves.

TRIFASCICULAR HIGHWAY



I Lateral <small>(aVL LEAD)</small>	aVR <small>(No Man's Land)</small>	V1 Septal <small>LAD/L Bundle Branch</small>	V4 Anterior <small>LAD</small>
II Inferior <small>(RCA)</small>	aVL Lateral <small>(LAD/L Bundle Branch)</small>	V2 Septal <small>LAD/L Bundle Branch</small>	V5 Lateral <small>(aVL LEAD)</small>
III Inferior <small>(RCA)</small>	aVF Inferior <small>(RCA)</small>	V3 Anterior <small>LAD</small>	V6 Lateral <small>(aVL LEAD)</small>

KEY

WNL	Within Normal Limits	Cx	Circumflex
N	Normal	LAD	Left Anterior Descending
*	Required	RCA	Right Coronary
SA	Sinoatrial	AV	Atrioventricular

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Guide To Ecg Analysis

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Guide to ECG Analysis Joseph T. Catalano,2002 This entry level electrocardiogram ECG interpretation text provides the basic skills required for competency in single lead ECG interpretations It presents a logical progression through the conduction system to identify dysrhythmias describes their causes and discusses the common symptoms associated with them Also covers concepts such as bundle branch blocks and pacemaker rhythms Practice strips and answer key provided

A Practical Guide to ECG Interpretation Ken Grauer,1998 Expanded updated content easier to understand definitions more tracings and tables it all adds up to a newly revised edition of this practical guide to the basics of ECG evaluation Using clinically relevant questions throughout Dr Grauer provides concise answers and rationales for each making this an excellent resource for self study

A Comprehensive Guide to Understanding and Managing Arrhythmias Dr. Spineanu Eugenia,2024-10-16 Are you ready to unlock the secrets of arrhythmias and their life altering impact on cardiac health This comprehensive guide dives deep into the intricacies of arrhythmias offering readers a detailed understanding of the irregularities in heart rhythm from their physiological roots to cutting edge treatment options MASTER THE COMPLEXITIES OF CARDIAC ELECTROPHYSIOLOGY LEARN ABOUT DIFFERENT TYPES OF ARRHYTHMIAS AND THEIR CAUSES DISCOVER THE IMPACT OF ARRHYTHMIAS ON CARDIAC FUNCTION EXPLORE HISTORICAL PERSPECTIVES AND MODERN INNOVATIONS ACCESS REAL WORLD CASE STUDIES AND CLINICAL INSIGHTS Whether you re a medical student healthcare provider or someone looking to understand arrhythmias this book provides the knowledge needed to navigate through this critical aspect of heart health With clear explanations and rich clinical insights this book is your guide to managing and understanding arrhythmias in a comprehensive and approachable way

ECG Interpretation Lippincott Williams & Wilkins,2005-06-22 ECG Interpretation An Incredibly Easy Pocket Guide provides time starved nurses with the essentials of electrocardiography in a streamlined bulleted and highly visual format The book fits into a pocket for quick reference anytime and anywhere and uses charts illustrations logos and other Incredibly Easy features to help nurses spot key points at a glance Topics include ECG basics such as obtaining and interpreting rhythm strips arrhythmia interpretation pacemakers and ICDs and 12 lead ECGs For each arrhythmia causes signs and symptoms and pharmacologic and nonpharmacologic treatment are presented Test Zone questions and answers evaluate the reader s mastery of the subject

ECG Notes Shirley A Jones,2009-12-07 A quick look up reference for ECG interpretation and management This indispensable guide presents the basics anatomy and physiology of the cardiovascular system electrical conduction system of the heart basic ECG concepts and components ACLS and CPR algorithms emergency medications and comprehensive information on monitoring leads and interpretation of over 100 ECG strips including 12 lead and pacemaker rhythms

Skillmasters ,2006-08-01 Now in its Second Edition this compact portable reference is a complete concise and straightforward guide to ECG interpretation The comprehensive coverage includes ECG basics rhythm strips arrhythmias

pharmacologic and nonpharmacologic treatments 12 lead and 15 lead ECGs and more The book features scores of waveform illustrations look alike arrhythmias with distinguishing features assessment and treatment algorithms and troubleshooting tips for ECG problems This edition has new chapters on pharmacologic and nonpharmacologic treatment and new information on biventricular pacers and ablation therapy A practice strip appendix has been added for self testing Rhythm strips have been added to the Quick Guide to Arrhythmias appendix

National Library of Medicine Current Catalog National Library of Medicine (U.S.),1993

Emergency Pathophysiology Samuel M. Galvagno,2013-05-15 This core textbook defines the pathophysiologic mechanisms underlying the disease states commonly encountered by pre hospital care providers The chapters are short clinically focused and specific to the diseases disorders and traumatic conditions of critical interest to the EMT and pre hospital environment Each chapter identifies the appropriate drugs and management guidelines to be used Designed to bridge the gap between EMT and the Physician in all emergent or acute conditions the book includes management cautions and tips are highlighted throughout the presentation The book is tailored specifically to the curriculum for EMT training

Easy ECG Hans-Holger Ebert,2004-08-11 This book fills a gap between the EKG atlas and textbooks based on electrophysiology Easy ECG fills a gap between the EKG atlas and textbooks based on electrophysiology Starting with the relevant anatomical information the book provides instructive EKG lead diagrams and clear schematic drawings that will help familiarize the reader with characteristic EKG patterns and electrophysiologic principles Electrocardiographic phenomena and the electrophysiologic events that underlie them are linked to practical implications for clinical diagnosis and treatment providing the reader with a competent guide for navigating the sometimes difficult depths and shoals of accurate EKG interpretation

Advanced Methods and Tools for ECG Data Analysis Gari D. Clifford,Francisco Azuaje,Patrick McSharry,2006 This practical book is the first one stop resource to offer a thorough up to date treatment of the techniques and methods used in electrocardiogram ECG data analysis from fundamental principles to the latest tools in the field The book places emphasis on the selection modeling classification and interpretation of data based on advanced signal processing and artificial intelligence techniques

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

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ECG Holter

Jan Adamec, Richard Adamec, 2008-12-14 For centuries the analysis of the heart rhythm has belonged to the foundations of medical art We know that doctors in ancient Tibet used the interpretation of the heart rate to draw prognostic conclusions somehow a modern rationale that deserves further attention The rapid advancement of science is providing more and more information about the details but the subatomic resolution of structures hides the risk and the complex procedures are fragmented into static impressions The same has happened to the ECG The revolutionary development acknowledged by the Nobel Prize for Einthoven led from the analysis of the dynamic heart rate to the static analysis of the heart stream curve It is only with the ECG Holter recording over longer periods that the cardiologists rediscovered the old dynamic With the continuous recording of the heart rate and its periodicity it became accessible to a new dimension a dimension that requires technically well defined foundations for accurate data collection detailed knowledge of the electrocardiologic particularities of arrhythmia and medical knowledge for the translation of the results into a diagnostic synthesis With the ECG Holter the issue is no longer just to detect an arrhythmia but also to determine dynamic circumstance in which the critical event occurred In fact we investigate the trigger the event and the context and we have to integrate all of that information within the clinical picture from the pathology right through to the symptom indeed a multi dimensional task

Mosby's Guide to Physical Examination Henry M. Seidel, 2003 This comprehensive textbook of physical examination history taking and health assessment is distinguished by its unique author team of two physicians and two nurses Their blend of expertise results in an unusually broad multidisciplinary perspective a unique emphasis on differential diagnosis and an uncommonly compassionate patient centered approach What's more their expertise in both adult health and pediatrics fosters an especially thorough emphasis on lifespan considerations The book also features one of the most extensive art programs found in any physical examination text particularly with

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ANS function as well as non smokers subjects Many factors are related to impaired ANS function including sedentary habits smoking high fat intake genetic changes etc **Hospital Literature Index** ,1991

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