

The Ultimate ACLS Study Guide

ADVANCED LIFE SUPPORT IN THE PREHOSPITAL SETTING
 PROVIDING QUALITY CARE TO YOUR PATIENTS AND YOURSELF



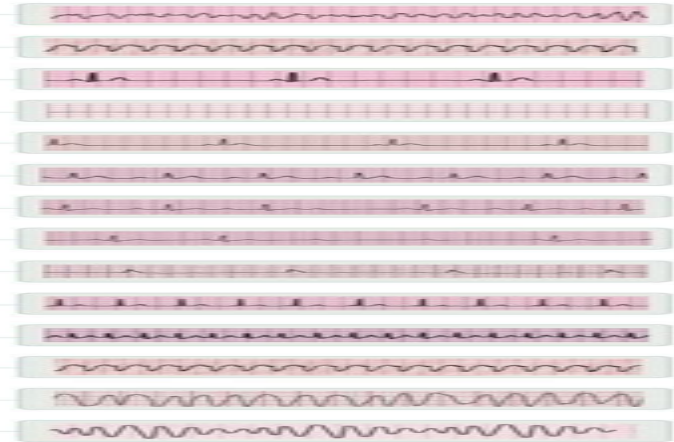
EKG Anatomy



P Wave - represents electrical activity in the SA Node. Prolonged P wave indicates a delay in conduction.
PR Interval - represents the time between the P wave and the QRS complex. Prolonged PR interval indicates a delay in conduction.
QRS Complex - represents the electrical activity of the ventricles. A prolonged QRS complex indicates a delay in conduction.
T Wave - represents the electrical activity of the ventricles. A prolonged T wave indicates a delay in conduction.

ECG Rhythms

- Ventricular Fibrillation** - Irregular, chaotic, and disorganized electrical activity.
- Ventricular Tachycardia** - Rapid, regular, and narrow QRS complex. Prolonged QRS complex indicates a delay in conduction.
- Supraventricular Tachycardia** - Rapid, regular, and narrow QRS complex. Prolonged QRS complex indicates a delay in conduction.
- Atrial Fibrillation** - Irregular, chaotic, and disorganized electrical activity. Prolonged P wave indicates a delay in conduction.
- Sinus Bradycardia** - Slow, regular, and narrow QRS complex. Prolonged P wave indicates a delay in conduction.
- 1st Degree AV Block** - Prolonged PR interval. Prolonged QRS complex indicates a delay in conduction.
- 2nd Degree Block Type I - Wenckebach** - Prolonged PR interval. Prolonged QRS complex indicates a delay in conduction.
- 2nd Degree Block Type II - Mobitz** - Prolonged PR interval. Prolonged QRS complex indicates a delay in conduction.
- 3rd Degree Block** - Prolonged PR interval. Prolonged QRS complex indicates a delay in conduction.
- Sinus Tachycardia** - Rapid, regular, and narrow QRS complex. Prolonged P wave indicates a delay in conduction.
- Supraventricular Tachycardia** - Rapid, regular, and narrow QRS complex. Prolonged P wave indicates a delay in conduction.
- Second-Degree Ventricular Tachycardia** - Rapid, regular, and narrow QRS complex. Prolonged P wave indicates a delay in conduction.
- Third-Degree Ventricular Tachycardia** - Rapid, regular, and narrow QRS complex. Prolonged P wave indicates a delay in conduction.
- Third-Degree AV Block** - Prolonged PR interval. Prolonged QRS complex indicates a delay in conduction.



Electrical Therapy Basics



Defibrillation - Use of external defibrillator (AED) to restore normal cardiac rhythm.
Synchronized Cardioversion - Shock synchronized to specific ECG wave.
Transcutaneous Pacing - Treats abnormally slow heart rate.

Airway Management



Adjuvants -
 - Cricothyroidal (CRS) airway - Use for cricothyroidal (CRS) airway.
 - Endotracheal (ET) airway - Use for endotracheal (ET) airway.
 - NEVER USE WITH A HEAD INJURY.
Advanced Airway -
 - Endotracheal (ET) airway - Use for endotracheal (ET) airway.
 - Endotracheal (ET) airway - Use for endotracheal (ET) airway.

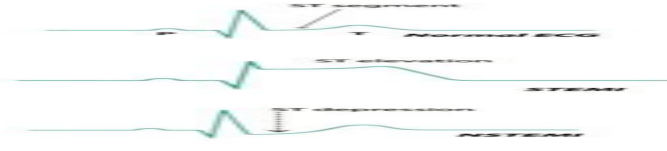
Post-Resuscitation Care



Follow the ABCs:
 - Airway - Maintain airway and oxygenation.
 - Breathing - Maintain breathing and oxygenation.
 - Circulation - Maintain circulation and oxygenation.
 - Disability - Maintain disability and oxygenation.
 - Exposure - Maintain exposure and oxygenation.

Acute Coronary Syndromes (ACS)

- Unstable Angina** - Chest pain, shortness of breath, sweating, nausea, vomiting, dizziness, lightheadedness, or fainting.
- ST Segment Elevation MI (STEMI)** - Chest pain, shortness of breath, sweating, nausea, vomiting, dizziness, lightheadedness, or fainting.
- Non-ST Segment Elevation MI (NSTEMI)** - Chest pain, shortness of breath, sweating, nausea, vomiting, dizziness, lightheadedness, or fainting.



Stroke Assessment and Treatment

Cincinnati Prehospital Stroke Scale:
 1. Face - Can you smile?
 2. Arm - Can you raise both arms?
 3. Leg - Can you walk?
 4. Speech - Can you say 'hello'?

Code Termination

Consult with medical control before code termination.
 - If no signs of life after 25 minutes of resuscitation.
 - If no signs of life after 25 minutes of resuscitation.

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Acls Study Guide 4th Edition

Barbara J Aehlert



AcLS Study Guide 4th Edition:

ACLS Study Guide - E-Book Barbara J Aehlert, 2011-12-08 Reflecting the 2010 Emergency Cardiovascular Care guidelines ACLS Study Guide 4th Edition offers a complete full color overview of advanced cardiovascular life support An easy to read approach covers everything from airway management and rhythms and their management to electrical therapy acute coronary syndromes and acute stroke In addition to the latest ACLS treatment algorithms this edition includes new case studies new photos and illustrations a heart rate ruler and a handy ACLS quick reference card for use in the field Written by Barbara Aehlert ACLS Study Guide is the official textbook for the American Safety Health Institute ACLS certification course A pretest and posttest each containing 50 questions with answers and rationales allow you to check your knowledge prior to and after your study Chapter objectives preview the main points in each chapter Stop and Review sections at the end of the chapters help you remember the most important information ACLS Pearls boxes offer key points and useful tips for clinical practice Keeping it Simple boxes provide essential information in a clear and concise manner Ten case studies present real life clinical situations allowing you to make decisions based on information in the Preparatory section Consistent format of case studies includes Objective Skills to Master Rhythms to Master Medications to Master Related Text Chapters Essential Actions and Unacceptable Actions A heart rate ruler is included to help you interpret ECGs 4 x 6 pocket size quick reference card contains key ACLS algorithms for field use 100 new and updated photos and illustrations show key ACLS procedures and equipment Pharmacological interventions are integrated into the chapters for a more cohesive learning experience New streamlined approach reduces the number of pages and simplifies the information you need to know **ACLS Study Guide** Barbara J. Aehlert, 2011-12-08 Reflecting the 2010 Emergency Cardiovascular Care guidelines this title offers a full color overview of advanced cardiovascular life support It features an easy to read approach that provides coverage ranging from airway management and rhythms and their management to electrical therapy acute coronary syndromes and acute stroke

AACN Procedure Manual for Progressive and Critical Care - E-Book AACN, 2023-07-07 American Journal of Nursing AJN Book of the Year Awards 1st Place in Critical Care Emergency Nursing 2024 Selected for Doody's Core Titles 2024 with Essential Purchase designation in Critical Care Edited by the American Association of Critical Care Nurses and written by more than 100 critical care experts under the direction of Karen L Johnson PhD RN FAAN this definitive reference represents the gold standard of care for procedures performed in progressive and critical care settings It guides you through procedures common to the adult critical care environment including those performed by advanced practice nurses in an illustrated step by step format This edition now in full color features new procedures new and updated illustrations and updated content throughout reflecting the latest evidence based guidelines and national and international protocols Quick reference tabs make it easier than ever to locate content quickly This new edition integrates key AACN initiatives such as Practice Alerts and coordinates closely with the AACN Core Curriculum for Progressive and Critical Care Nursing 8th Edition Chapter

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Acls suporte avançado de vida em cardiologia, 4a edição Barbara Aehlert,2012-09-06 Refletindo as diretrizes do atendimento cardiovascular de emergência esta 4a edição do ACLS oferece um guia para estudo completo e em cores do suporte avançado de vida em cardiologia Uma abordagem de leitura fácil que abrange tudo de vias aéreas e reconhecimento do ritmo à terapia elétrica síndromes coronarianas agudas e acidente vascular cerebral agudo Os NOVOS recursos incluem os últimos algoritmos de tratamento ACLS novos estudos de casos 1 fotos e ilustrações novas uma referência de frequência cardíaca e um cartão de consulta rápida do ACLS para uso na prática NOVO Intervenções farmacológicas integradas aos capítulos para facilitar a aprendizagem coesa As seções Pare e Revise ao final dos capítulos ajudam a lembrar das informações mais importantes Os quadros Dicas ACLS oferecem pontos chave e observações práticas clínicas Os quadros sobre o título Simplificando fornecem dados essenciais de maneira clara e concisa As seções Pr teste e Pós teste cada uma contendo 5 questões com respostas e comentários ao final do livro permitem avaliar seu conhecimento antes e depois do estudo

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