

The Ultimate ACS Study Guide

Advanced Cardiac Life Support (ACLS) provides guidelines for healthcare professionals for all types of cardiac emergencies.



EKG Anatomy



P-Wave = electrical activity in the upper heart chambers; represents contraction of SA node and AV node.

PR Interval = time from P wave to QRS complex.

QRS Complex = ventricular depolarization.

ST Segment = transition from ventricular depolarization to repolarization. Repolarization starts at the end of the QRS complex.

T-Wave = repolarization of upper heart.

ECG Rhythms

Ventricular Fibrillation - no organized blood, immediate defibrillation.

Ventricular Tachycardia - ventricular arrhythmia. Heart rate 100-250 bpm. Immediate cardioversion.

P纈tential &逸搏 (Fibrillation Activity) - fibrillation rate 300-500 bpm.

Atrial Fibrillation - on EKG, if leads are all connected, begin CPR immediately.

Sinus Bradycardia - rate less than 60 bpm, no cause/minute. Prolonged PR interval if not otherwise.

1st Degree AV Block - prolonged PR interval. Rhythm normal.

2nd Degree Block Type I - Wenckebach - progressive PR interval lengthening. Gradual complete. Rhythm requires treatment.

2nd Degree Block Type II - Mobitz I - ventricular逸搏 (fibrillation activity). Unusually long PR interval.

3rd Degree Block - between SA and AV nodes. Complete heart block. Prolonged PR interval.

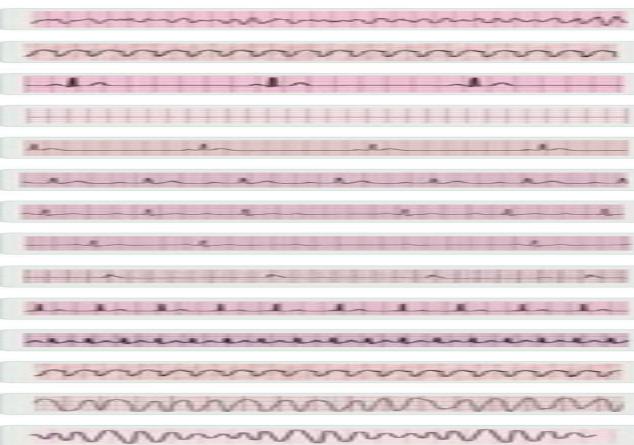
Sinus Tachycardia - increased heart rate of 100-150 beats per minute. No cause/minute. Rhythm normal.

Supraventricular Tachycardia - increased heart rate of 150-250 beats per minute. No cause/minute. Rhythm normal.

Monomorphic Ventricular Tachycardia - pharmacology for stable patients. Immediate cardioversion.

Polyomorphic Ventricular Tachycardia - cardiovert. If cardiovert fails, cardioversion and CPR.

Torsades de Pointes - differential signs of class III antiarrhythmics. Forms a spiral pattern on EKG. Immediate cardioversion - treat with magnesium.



Electrical Therapy Basics



Defibrillation - uses an automated external defibrillator (AED).

Synchronized Cardioversion - synchronized to the heart's rhythm point.

Transcutaneous Pacing - treats abnormally slow heart rate.

Airway Management



Adjuncts

- Oropharyngeal (OP) airway - use for unconscious patients with a gag reflex.
- Nasopharyngeal (NP) airway - use for unconscious patients without a gag reflex. NEVER USE WITH A HEAD INJURY.

Advanced Airways - recommended method, use with intubation with esophageal stethoscopy.

Post-Resuscitation Care



Follow the ABCDs:

- Airway - maintain ventilation and oxygenation.
- Breathing - keep PETCO₂ between 35-40mmHg.
- Circulation - maintain mean arterial pressure of 90mmHg.
- Differential Diagnosis - use H&Ts to determine contributing factors to cardiac arrest.

Acute Coronary Syndromes (ACS)

Unstable Angina

- unexpected chest pain due to poor blood flow
- blood thinners
- aspirin
- open a narrow or blocked artery

ST-segment Elevation MI (STEMI)

- total blockage of a coronary artery
- electrical activity during the ST-segment shows ST-segment elevation
- coronary intervention (PCI) or emergency CABG surgery

Non-ST-segment Elevation MI (NSTEMI)

- partial blockage of a coronary artery
- ST-segment depressed instead of elevated, no thrombolytic
- pharmacotherapy, immediate percutaneous coronary intervention
- Coronary artery bypass grafting (CABG) surgery



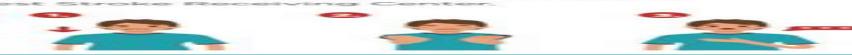
Stroke Assessment and Treatment

Cardiac arrest is a frequent complication after an acute ischemic stroke. If a stroke is suspected, immediately transport to the nearest Stroke Receiving Center.

Cincinnati Prehospital Stroke Scale:

1. Age >60
2. Arm drift
3. Speech

“You can't teach an old dog new tricks”



Code Termination

Consult with medical control before code termination.



- 1. Persistent asystole 25 minutes or longer
- 2. Obvious signs of death, withhold resuscitation efforts

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Pals And Acls Study Guide

**Juliana J. Brixey,Jack E. Brixey,Virginia
K. Saba,Kathleen A. McCormick**

Pals And Acls Study Guide:

ACLS Study Guide Barbara Aehlert,2007 Written in a conversational style the 3rd edition of the ACLS Study Guide features unique user friendly and easy to remember treatment algorithms totally revised to reflect the 2005 emergency cardiac care guidelines Full color throughout it offers a complete concise overview of advanced cardiovascular life support ACLS acute coronary syndromes and acute stroke It also features easy to access information with Stop and Review quizzes in each chapter and a comprehensive pretest and posttest New to this edition are a handy ACLS quick reference fold out card a heart rate ruler and more In addition to being an outstanding study tool the ACLS Study Guide 3rd Edition is the official text for the American Safety and Health Institute ACLS certification course For more information on ASHI courses call 800 246 5101 or visit www.ashinstitute.com A pretest and posttest each containing 50 questions with answers and rationales provide readers with opportunities to check comprehension prior to and after study Chapter Objectives allow readers to preview the main points in each chapter Quick Review boxes throughout the chapters and Stop and Review sections at the end of the chapters test reader comprehension of the material Chapters 1 8 comprise a Preparatory section to provide the foundation for the case presentations in the second section Ten case studies present real life clinical situations enabling the reader to make decisions based on information in the Preparatory section Consistent organization of case studies include Objective Skills to Master Rhythms to Master Medications to Master Related Text Chapters Questions Answers Essential Actions and Unacceptable Actions to aide in the study and mastery of material Unique treatment algorithms totally revised to reflect the 2005 emergency cardiac care guidelines simplify the new treatment guidelines making them easier to use and remember Chapter on Stroke has now been expanded to include Special Resuscitation Situations ACLS Pearl boxes contain key points and useful tips for clinical practice Keeping it Simple boxes contain essential information in a clear and concise manner A heart rate ruler is included to help determine heart rate while practicing ECG recognition A 4 x 6 pocket size quick reference card with key ACLS algorithms is included for field use Vascular Access and Medications combined into one chapter to present venous circulation information with all relevant common medications used during a cardiac related emergency

Pediatric Advanced Life Support Study Guide Barbara Aehlert,2005 The second edition of this study guide by popular author Barbara Aehlert incorporates both prehospital and hospital management of pediatric emergencies In a concise easy to read outline format Pediatric Advanced Life Support Study Guide 2nd Edition provides the most essential information a provider needs Pediatric Advanced Life Support Study Guide 2nd Edition reflects the 2000 emergency cardiovascular care guidelines It is also the approved text for the American Safety contact your sales representative for details An outline format featuring bulleted lists concise tables and a user friendly writing style makes this comprehensive text incredibly easy to read and understand A Pretest and a Posttest consisting of multiple choice true false fill in the blank and essay questions tests readers overall comprehension of the material PALS Pearl Boxes help readers apply information covered in the text to real

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step by step videos demonstrating the skills in the textbook and more Because this two volume set corresponds to the National Registry of EMTs National EMS Practice Analysis it provides you with the best possible preparation for the National Registry exam Publisher s website **Pediatric Advanced Life Support** Barbara Aehlert,President Southwest Ema Education Inc Phoenix Arizona Barbara Aehlert, R.N.,Aehlert,1996 A full color PALS study guide This popular study guide summarizes the basic concepts presented in the AHA course and provides an opportunity for self evaluation through its question and referenced answer format Includes a comprehensive pre test and post test and four additional chapter quizzes Answers are referenced to 1992 JAMA and AHA PALS text

The Comprehensive Respiratory Therapist Exam Review -

E-Book James R. Sills,2010-04-12 Prepare for success on respiratory therapy credentialing exams Updated to reflect the 2009 National Board of Respiratory Care NBRC content outlines Sills The Comprehensive Respiratory Therapist s Exam Review 5th Edition helps you review for both entry and advanced level credentialing exams It covers every testable subject providing content review self assessment questions and study hints This title includes additional digital media when purchased in print format For this digital book edition media content is not included Unique Exam Hint boxes point out subjects that are frequently tested helping you study plan your time and improve your test taking skills Self study questions are included at the end of each chapter accompanied by answers and rationales in the back of the book Complexity level codes recall application and analysis help you prepare for questions in the way that is most appropriate e g memorization for recall or synthesis for analysis NBRC content outline coding provides a code for each topic so you can be sure that you have covered every topic that might appear on the exam CRT and RRT level codes speed your review by identifying the individual topics for the CRT and RRT exams as well as topics for both One text now covers both the entry and advanced levels of Respiratory Therapists credentialing exams so you need only one book to prepare for CRT and RRT credentials Updated content reflects the NBRC s new examination content outlines so you get an accurate current review New coverage includes subject areas such as CPAP BiPAP titration during sleep hemodynamic monitoring hyperinflation therapy laryngeal mask airway high frequency ventilation oxygen titration thoracentesis ultrasound and ventilator associated pneumonia protocols An Evolve website includes both CRT and RRT practice exams

ACLS Quick Review Study Cards Barbara Aehlert,Barbara

J Aehlert, Msed Bspa RN,1994 Perforated cards in a book format feature a review question and ECG tracing on the front of the card with the answer and rationale on the back Color coded cards are designed to correspond with discussions in the author s text ACLS Quick Review Study Guide 500 cards

Certified Respiratory Therapist Exam Review Guide Albert

Heuer,Louis Sinopoli,2010-11-15 Certified Respiratory Therapist Review Guide is a comprehensive study guide for respiratory therapy students and graduates of accredited respiratory therapy education programs who are seeking to take the entry level Certified Respiratory Therapist CRT credentialing exam from the National Board for Respiratory Care NBRC This unique review guide devotes extensive coverage to two problematic areas for credentialing exam candidates which are

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Mosby's Comprehensive Pediatric Emergency Care Barbara Aehlert,2005 Mosby s Comprehensive Pediatric Emergency Care is the first text to incorporate both prehospital and hospital management of pediatric emergencies This unique text provides in depth coverage of every area of pediatric emergency care making it ideal for prehospital providers physicians nurses and other health care professionals who treat pediatric patients This new text reflects the 2000 American Heart Association Emergency Cardiovascular Care guidelines and includes pediatric advanced life support This is the approved textbook for the American Safety contact your sales representative for details Includes pediatric advanced life support An outline format featuring bulleted lists concise tables and a user friendly writing style makes this comprehensive text incredibly easy to read and understand A laminated quick reference card gives practitioners easy access to critical information in the field or hospital This convenient card includes essential information regarding respiratory and heart rates blood pressure basic life support interventions Glasgow Coma Scale airway size and equipment selection for intubation corresponding to the Broselow Resuscitation Tape several pediatric algorithms and pain assessment tools PEDS Pearl boxes help readers apply information covered in the text to real life clinical situations A Medication Chart in Chapter 8 features an alphabetical listing of medications commonly used in pediatric emergency care helping readers learn the basics of common medications at a glance Sidebars contain additional information relevant to the topics covered in the chapter giving readers an opportunity for further learning Chapter quizzes help readers gauge their comprehension of the chapter Glossary at the end of the book allows readers to look up words quickly and easily A Pretest and a Posttest consisting of multiple choice true false fill in the blank and essay questions test readers overall comprehension of the material Contains a FREE laminated quick reference card

Essentials of Nursing Informatics Study Guide Juliana J. Brixey,Jack E. Brixey,Virginia K. Saba,Kathleen A. McCormick,2015-09-05 Introducing the most complete compact guide to teaching and learning nursing informatics If you're looking for a clear streamlined review of nursing informatics fundamentals Essentials of Nursing Informatics Study Guide is the go to reference Drawn from the newly revised 6th Edition of Saba and McCormick's bestselling textbook Essentials of Nursing Informatics this indispensable study guide helps instructors sharpen their classroom teaching skills while offering students an effective self study and review tool both in and out of the classroom Each chapter features a concise easy to follow format that solidifies students understanding of the latest nursing informatics concepts technologies policies and skills For the nurse educator the study guide includes teaching tips class preparation

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Study Guide to

Accompany Egan's Fundamentals of Respiratory Care Stephen F. Wehrman, Robert L. Wilkins, James K Stoller, 2003

Includes a wide variety of activities such as review questions 3 levels following the NBRC question format vocabulary review chapter objectives chapter highlights case studies and critical thinking questions.

Paramedic Practice Today: Above

and Beyond: Volume 2 Aehlert, Robert Vroman, 2011 Providing the tools you need to succeed the two volume set of

Paramedic Practice Today Above and Beyond offers a solid foundation for paramedic practice and is now updated to reflect the 2010 emergency cardiovascular care guidelines. A conversational easy to read style simplifies topics and helps you master National Standard Curriculum objectives and meet the new National Education Standards. Each volume includes a companion DVD ROM with step by step videos demonstrating the skills in the textbook and more. Because this two volume set corresponds to the National Registry of EMTs National EMS Practice Analysis it provides you with the best possible preparation for the National Registry exam.

Publisher's website **The Emergency Department Technician Handbook, E-Book** Robert Shesser, Ali Pourmand, Amy Keim, 2022-10-20

Emergency Department Technicians EDTs play a vital role in actively supporting the medical team in today's hospitals and the role continues to expand in light of staffing shortages and increased emergency department volumes. *The Emergency Department Technician Handbook* is a reliable comprehensive resource in this increasingly important field filling a timely need in EDT workforce development for both technicians and educators. Concise readable text along with high quality clinical photos and a video library that depict procedures and patient positioning make this new handbook a must have resource in every emergency department. Provides quick convenient access to practical guidance and everyday answers in an easy to read outline format. Discusses key topics such as patient flow and assessment in the ED triage and point of care testing. Advises on best practices for wound care including cleansing dressing

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results you need to be familiar with **Last Minute Emergency Medicine: A Concise Review for the Specialty Boards** Mary Jo Wagner,Susan Promes,2007-05-06 This new study guide presents all the important topics covered on emergency medicine exams with a special emphasis on comparing and contrasting disease presentations and treatments to one another Written by experts in residency education Last Minute Emergency Medicine provides an outstanding final tune up to board review **Mosby's First Responder Textbook** Walt Stoy,Walt A. Stoy,1997 Introducing the only full color first responder text package to have a corresponding video series that mirrors the 1995 curriculum Topics covered include patient assessment illness and injury childbirth and children and EMS operations Five Practical Skills appendices detail skills above and beyond the DOT curriculum First Response scenarios to help put material in real life context Review boxes for self assessment Technique boxes for step by step skills instruction Practical skills appendices covering oxygen administration ventilation AEDs immobilization and more

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Table of Contents Pals And Acls Study Guide

1. Understanding the eBook Pals And Acls Study Guide
 - The Rise of Digital Reading Pals And Acls Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Pals And Acls Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Pals And Acls Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pals And Acls Study Guide
 - Personalized Recommendations
 - Pals And Acls Study Guide User Reviews and Ratings
 - Pals And Acls Study Guide and Bestseller Lists
5. Accessing Pals And Acls Study Guide Free and Paid eBooks
 - Pals And Acls Study Guide Public Domain eBooks
 - Pals And Acls Study Guide eBook Subscription Services

- Pals And Acls Study Guide Budget-Friendly Options
- 6. Navigating Pals And Acls Study Guide eBook Formats
 - ePUB, PDF, MOBI, and More
 - Pals And Acls Study Guide Compatibility with Devices
 - Pals And Acls Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pals And Acls Study Guide
 - Highlighting and Note-Taking Pals And Acls Study Guide
 - Interactive Elements Pals And Acls Study Guide
- 8. Staying Engaged with Pals And Acls Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pals And Acls Study Guide
- 9. Balancing eBooks and Physical Books Pals And Acls Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pals And Acls Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Pals And Acls Study Guide
 - Setting Reading Goals Pals And Acls Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Pals And Acls Study Guide
 - Fact-Checking eBook Content of Pals And Acls Study Guide
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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