

# 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 ventricular depolarization to ventricular contraction.

**QRS Complex** = ventricular depolarization; represents contraction of ventricles.

**ST Segment** = period between end of ventricular contraction and beginning of ventricular relaxation.

**T-Wave** = relaxation of upper heart.

## ECG Rhythms

**Ventricular Fibrillation** - no organized blood, immediate defibrillation.

**Ventricular Tachycardia** - ventricular arrhythmia; heart rate 100-250 bpm, immediate cardioversion.

**P纓atory & Fibrillatory Activity** - fibrillation is fibrillation but activity is fibrillation and immediate CPR.

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

**Sinus Bradycardia** - rate less than 60 bpm, no cause/minute, pharmacological if symptomatic.

**1st Degree AV Block** - prolonged P-R interval, fibrillarity.

**2nd Degree Block Type I - Wenckebach** - progressive PR interval lengthening, fibrillarity requires treatment.

**2nd Degree Block Type II - Mobitz** - ventricular fibrillation, fibrillarity.

**3rd Degree Block** - fibrillation, SA and AV fibrillarity.

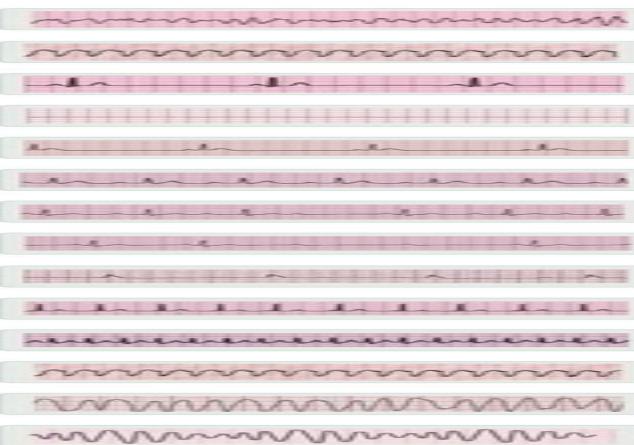
**Sinus Tachycardia** - increased heart rate of 100-150 beats per minute, no cause/minute, fibrillarity.

**Supraventricular Tachycardia** - increased heart rate of 100-250 beats per minute, no cause/minute, fibrillarity.

**Monomorphic Ventricular Tachycardia** - pharmacological for stable patients, immediate cardioversion.

**Polyomorphic Ventricular Tachycardia** - cardiovert with different drugs and CPR.

**Torsades de Pointes** - different types of QRS complexes form a spiral pattern, fibrillarity - treat with magnesium.



## Electrical Therapy Basics



**Defibrillation**  
Used on automated external defibrillator (AED).

**Synchronized Cardioversion**  
Sync with synchronized cardioversion point.

**Transcutaneous Pacing**  
Treats abnormally slow heart rate.

## Airway Management



**Adjuncts**

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

**Advanced Airways** - recommended method, use with trained provider with endotracheal intubation.

## Post-Resuscitation Care



### Follow the ABCs:

- Airway - continue ventilation and oxygenation
- Breathing - keep PETCO<sub>2</sub> between 35-40mmHg
- Circulation - use Hg's and T's to determine contributing factors

## Acute Coronary Syndromes (ACS)

### Unstable Angina

- Unexpected chest pain due to poor blood flow
- Increased pain
- Blood thinners
- Angiogram - open or 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
- Pharmacological, immediate percutaneous coronary intervention
- Coronary artery bypass grafting (CABG) surgery



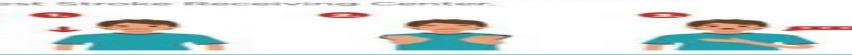
## Stroke Assessment and Treatment

Stroke 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 over 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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# Acls Study Guide 2015

**Angela Arnold,Megan Dash**

## **Acls Study Guide 2015:**

**ACLS Study Guide - E-Book** Barbara J Aehlert, 2016-10-06 Awarded second place in the 2017 AJN Book of the Year Awards in the Critical Care Emergency Nursing category Provide the best possible emergency cardiovascular care using the newest ECC guidelines ACLS Study Guide 5th Edition offers a complete full color overview of advanced cardiovascular life support An easy to read approach covers everything from airway management to cardiac arrest rhythms and their management electrical therapy acute coronary syndromes and acute stroke In addition to the latest ACLS treatment algorithms this edition includes case studies and hundreds of full color photos and illustrations Case studies present common realistic clinical situations helping you learn and apply skills in cardiac rhythm interpretation medication administration and other essential interventions ACLS Pearls boxes offer brief explanations of complex topics and useful tips for clinical practice End of chapter quizzes include answers and rationales helping you learn and remember the most important information Easy to understand approach simplifies your study of advanced cardiac life support thanks to Barbara Aehlert's unique conversational writing style NEW UPDATED content centers on evidence based practice recommendations including the 2015 American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care and the 2015 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science With Treatment Recommendations NEW Improved format integrates all case studies into the appropriate chapters so that you can apply concepts immediately to real world situations

**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](http://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 *AACN Procedure Manual for High Acuity, Progressive, and Critical Care - E-Book* AACN,2016-12-02 NEW Updated content throughout reflects the latest evidence based guidelines and national and international protocols NEW 17 new procedures reflect major additions to nursing practice in high acuity progressive and critical care settings NEW Engaging new illustrations of procedures equipment and techniques are integrated throughout

**Mosby's Dictionary of Medicine, Nursing & Health Professions - E-Book**

Mosby,2021-07-21 Selected for Doody's Core Titles 2024 with Essential Purchase designation in Dictionaries Terminology Make sense of complex medical terms with this comprehensive reference Mosby's Dictionary of Medicine Nursing Health Professions 11th Edition includes more than 56 000 authoritative definitions along with 2 450 illustrations that's twice the number of images found in other medical dictionaries Appendixes in the book and online make it easy to look up frequently used information and an enhanced eBook version includes animations audio pronunciations and more Helping you communicate more effectively in the workplace this reference is an indispensable reference for students nurses and healthcare professionals More than 56 000 entries offer detailed definitions as well as the latest information on pathophysiology treatment and interventions and nursing care More than 2 450 color photographs and line drawings demonstrate and explain complex conditions and abstract concepts Convenient alphabetical organization makes it easy to find key terms and definitions Color Atlas of Human Anatomy includes clearly labeled drawings for easy A P reference Detailed appendixes provide useful information on lab values pharmacology and clinical calculations NIC and NOC infection control standards and more that can be used throughout your healthcare career NEW Approximately 5 000 new and revised definitions reflect the latest developments in health care drugs and nursing terminology NEW Approximately 500 new and updated illustrations are included NEW Enhanced eBook includes linked audio pronunciations animations and integrated reference tables NEW information on population health is included NEW Significant revisions of pharmacology content bring this information up to date NEW Added pronunciations are provided in this edition

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alike Over 56 000 entries offer detailed definitions as well as the latest information on pathophysiology treatment and interventions and nursing care More than 2 450 color photographs and line drawings demonstrate and explain complex conditions and abstract concepts Strict common sense alphabetical organization makes it easy to find key terms and definitions Detailed appendixes provide you with useful information on lab values symbols and abbreviations pharmacology infection control standards and more that can be used throughout your health career NEW Approximately 5 000 new and revised definitions reflect the latest developments in health care drugs and nursing terminology NEW Completely updated illustrations visually clarify key definitions to reflect current healthcare practice and equipment [Handbook of Pediatric & Neonatal Emergencies](#) S Sushamabai,2019-06-30 This book provides clinicians and trainees with the latest advances and procedures in the management of paediatric and neonatal emergencies Divided into 16 sections the text begins with discussion on the concept of intensive care resuscitation and diagnosis of an acutely sick child The following chapters cover the treatment of emergency scenarios in different systems of the body respiratory cardiovascular nervous endocrine renal and gastrointestinal The book concludes with sections on infectious diseases oncology accidents and poisoning and neonatology A chapter on drug dosages is also included Topics are presented in a step by step systematic approach further enhanced by photographs diagrams flowcharts and tables to assist learning Key points Comprehensive guide to latest advances in management of paediatric and neonatal emergencies Covers emergency scenarios in all anatomical systems Includes section on paediatric drug dosages Highly illustrated with photographs diagrams flowcharts and tables

**RHCSA/RHCE Red Hat Linux Certification Study Guide, Seventh Edition (Exams EX200 & EX300)** Michael Jang,Alessandro Orsaria,2016-04-15 Based on Red Hat Enterprise Linux 7 the new edition of this bestselling study guide covers the updated Red Hat Certified System Administrator RHCSA and Red Hat Certified Engineer RHCE exams RHCSA RHCE Red Hat Linux Certification Study Guide 7th Edition is fully revised to cover the recently released Red Hat Enterprise Linux 7 and the corresponding RHCSA and RHCE certification exams This new edition provides complete coverage of all official exam objectives for the new exams An integrated study system based on proven pedagogy this revised bestseller features special elements that reinforce and teach practical skills while preparing candidates for the exam Each chapter includes step by step exercises Exam Watch and On the Job sidebars Two Minute Drills end of chapter self tests and hands on lab questions Electronic content includes four complete lab based practice exams to ensure you're ready to sit for the live exams Complete coverage of all exam objectives and performance based requirements related to the exams including difficult lab based scenarios Electronic content includes four complete lab based practice exams two for RHCSA and two for RHCE A proven study system for RHCSA and RHCE candidates This book includes copies of the Linux Kernel provided under the terms of the GNU General Public License version 2 **Tintinalli's Emergency Medicine: A Comprehensive Study Guide, 9th edition** Judith E. Tintinalli,O. John Ma,Donald Yealy,Garth D. Meckler,J. Stephan Stapczynski,David M.

Cline, Stephen H. Thomas, 2019-10-22 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product The long awaited new edition of the world's most widely used and highly regarded textbook and reference of emergency medicine A Doody's Core Title for 2019 Tintinalli's Emergency Medicine is THE essential resource for everyone working in and teaching emergency medicine The Ninth Edition provides the depth and breadth of coverage that reflects the complexity and expertise needed to practice emergency medicine in today's fast paced environments This comprehensive text is an important clinical resource for physicians residents and students advance practice providers emergency nurses EMTs and paramedics It is a necessary resource for in training and board examinations and recertification Tintinalli's Emergency Medicine covers everything from prehospital care disaster preparedness and basic and advanced resuscitative techniques to all the significant medical traumatic and environmental conditions requiring emergency treatment in adults children and neonates Highlights of the Ninth Edition Full color design with more tables than ever to succinctly present key information Extensive updates to all sections incorporating the latest clinical and evidence based information Online access to over 100 videos covering a wide range of diagnostic and therapeutic procedures and POCUS for obstetric gynecologic pediatric musculoskeletal and vascular conditions World class pediatric section on the care of neonates infants and children Expanded chapters on the management of gynecologic and obstetric conditions and emergencies Updated information on toxicologic and environmental emergencies Contemporary concise discussion of ED identification and treatment of opioid use disorders Updated information on procedural sedation Expert advice on the management and care of transgender patients Latest information available on neurologic and cardiac emergencies From the reviews of the seventh edition Collectively they have once again produced an excellent text that manages to cover the broad scope of emergency medicine while remaining an easily readable and practical resource Last for the inevitable comparison of this current edition of Tintinalli's Emergency Medicine with other available emergency medicine textbooks available in my opinion Tintinalli's still comes out on top It is more concise and easier to read than some yet it covers the breadth of emergency medicine practice more comprehensively than others Just as previous editions did the seventh presents all of the most pertinent and up to date information in a well organized format that is comprehensive yet easy to read That and many of the attractive new features in this current edition will ensure its place on my bookshelf for years to come JAMA Guide to the Canadian Family Medicine Examination, Second Edition Angela Arnold, Megan Dash, 2017-10-06 The ONLY guide specifically created to prepare for the Canadian Family Medicine Licensing Examination Everything you need to ace the SAMPs portion of the exam This unique review delivers thorough coverage of every priority topic included on the short answer management problems section of the Canadian Family Medicine Licensing Examination Each topic includes questions and answers answer explanations references and input from previous test takers and those who were involved in creating the exam The second edition has been updated to reflect the latest guidelines and

exam topics NEW end of chapter case based Q A Call outs that help readers remember important information include Red Flags indicative symptoms and Remember icons References including relevant studies data and guidelines are provided for each topic [ACLS Study Guide ,1994](#) [Gomella and Haist's Clinician's Pocket Reference, 12th Edition](#) Leonard G. Gomella,Steven A. Haist,2022-06-17 An all new edition of the original Scut Monkey Handbook the acclaimed survival guide for the wards and the clinic 4 STAR DOODY S REVIEW This pocket reference is packed with information that is important for medical students and interns on a day to day basis It is rich with practical information that might otherwise be located in different manuals The fundamental information is important for all clinicians to master thus the book serves house staff quite well also This book continues to be a favorite among medical students and house staff for good reason Doody s Review Service on a previous edition This portable pocket sized manual of manuals provides medical students and residents with essential patient care information including up to date coverage of current treatment protocols clinical microbiology critical care and commonly used medications Readers will find step by step guidance on the history and physical examination differential diagnosis key lab and diagnostic tests and much more The Twelfth Edition is highlighted by NEW specialty Pearls NEW chapters on the Patient Presentation Specialized Diagnostics Hospice and Palliative Care Interdisciplinary Health Care Teams and Principles of Ambulatory Care and must know board tips at the end of each chapter and NEW laboratory tests

[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 [Yearbook of](#)

*International Organizations 2014-2015 (Volume 4)* Union Of International Associations, Union of International Associations, 2014-09-17 The Yearbook of International Organizations provides the most extensive coverage of non profit international organizations currently available Detailed profiles of international non governmental and intergovernmental organizations IGO collected and documented by the Union of International Associations can be found here In addition to the history aims and acitvities of international organizations with their events publications and contact details the volumes of the Yearbook include networks between associations biographies of key people involved and extensive statistical data Providing both an international organizations and research bibliography Volume 4 cites over 46 000 publications and information resources supplied by international organizations and provides nearly 18 000 research citations under 40 subject headings This volume also includes a research bibliography on international organizations and transnational associations **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 Reichman's Emergency Medicine Procedures, 3rd Edition Eric F. Reichman, 2018-12-25 The most clear complete and easy to understand review of emergency medicine procedures enhanced by an animation library and more than 1 500 full color photographs Doody's Core Titles for 2021 Reichman's Emergency Medicine Procedures Third Edition is written to provide a detailed step by step approach to more than 200 procedures performed in an emergency or acute care setting This trusted classic will provide medical students residents advanced practice clinicians and the seasoned emergentologist with a reliable one stop procedural reference on which to base clinical practices and technical skills The Third Edition is enhanced by added chapters algorithms clinical pictures radiographs tables and coverage of cutting edge technological advancements Features Organized into 16 sections each representing an organ system an area of the body or a surgical specialty Each chapter is devoted to a single procedure Chapters have a similar format that encompasses Relevant anatomy and pathophysiology Indications and contraindications for the procedure Preparation for the patient including consent anesthesia and analgesia Step by step description of the procedure Cautions that indicate common problems Alternative techniques and helpful hints Aftercare and follow up Potential complications Summary of critical information More than 1 500 full color photographs Companion online library of animations demonstrates approximately 40 common or difficult procedures Includes both common and infrequently encountered procedures Important evidence based recommendations throughout Helpful pedagogy includes key information cautions and important facts highlighted in bold The techniques presented in this book will dramatically expand your understanding of emergency medicine procedures and most importantly your ability to deliver positive patient outcomes **Who's Who of American Women, 1997-1998** Marquis Who's Who, [Anonymus AC01783920], 1996-12 WHO'S WHO OF AMERICAN WOMEN is the one essential reference

to depend on for accurate detailed facts on American women of achievement This new edition includes in depth biographical profiles of prominent accomplished women **Obstetric Anesthesia: Quick References & Practical Guides** Philip E. Hess, Yunping Li, John J. Kowalczyk, Justin K. Stiles, 2023-06-20 This succinct evidence based book delivers everything you need to provide safe effective care to pregnant women in subacute and emergency situations A quick reference guide designed for on the spot clinical guidance Obstetric Anesthesia Quick References Practical Guides fills a gap in the current literature by distilling the information of a comprehensive textbook into a quick review and provides standard instructions that can be integrated into everyday practice You'll find a collection of common and uncommon clinical challenges with up to date obstetric anesthesia practices that serve both experienced and novice clinicians Chapters include a brief review of the topic clinical pearls bullet points and tables highlighting key information references for the latest scientific information and primary literature as well as guides protocols or standard operating procedures for immediate application all based on the BIDMC Department of Anesthesia's long history of providing cutting edge care for pregnant women The text also serves as a clinical reference guide and teaching tool Obstetric Anesthesia Quick References Practical Guides Describes tools and methods for caring for pregnant women in labor Includes the best scientific evidence and BIDMC's Department of Anesthesia's Obstetrical Division's thoroughly tested institutional practices used for the care of pregnant women Incorporates clear step by step instructions and up to date guidelines and standards Provides essential information in each chapter followed by evidence based best practices for the given topic li Pairs succinct presentations with relevant and practical instructions for patient care to support emergency decision making problem solving and patient safety *AIIMS Annual Report All-India Institute of Medical Sciences, 2015*

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