

ACLS Study Guide 2016

Mandatory Precourse Self-Assessment at least 70% pass. Bring proof of completion to class.

The ACLS Provider exam is 50 multiple-choice questions. Passing score is 84%. Student may miss 8 questions. All AHA exams are now "open resource" so student may use books and/or handouts for the exam. For students taking ACLS for the first time or updating/ renewing students with a current card, exam remediation is permitted should student miss more than 8 questions on the exam. Viewing the ACLS Provider Manual ahead of time with the online resources is very helpful. The American Heart Association link is www.heart.org/eccstudent and has an ACLS Precourse Self-Assessment, supplementary written materials, and videos. The code for these online resources is in the ACLS Provider Manual page ii. **The code is acsls15.** Basic Dysrhythmia knowledge is required. The exam has at least 9 strips to interpret. **The course is a series of video segments then skills. The course materials will prepare you for the exam.**

BLS Overview – CAB



Push Hard and Fast - Repeat every 2 minutes

*If person unresponsive next step is to check breathing and pulse simultaneously. Pulse check no more than 5-10 seconds

Anytime there is no pulse or unsure -

COMPRESSIONS

Elements of good CPR

COMPRESSIONS

- Rate-at least 100 - 120
- Compression depth at least 2 inches, not more than 2.4 inches or 6 cm
- Switch compressors every 2 min or 5 cycles
- Minimize interruptions (less 10 secs)
- Fatal mistake to interrupt compressions – continue compress while charging

RECOIL

VENTILATION

- With perfusing rhythm squeeze the bag once every 5 to 6 seconds
- Excessive ventilation decreases cardiac output

Stroke

- Cincinnati Pre-Hospital Stroke Scale
- Facial Droop, Arm Drift, Abnormal Speech
- Non-contrast CT scan of the head
- Start fibrinolytic therapy as soon as possible
- Alerting the hospital will expedite patient's care on arrival

Acute Coronary Syndromes, STEMI

*STEMI door-to-balloon within 90 minutes

*12 Lead for CP, epigastric pain, or rhythm change

Recommended dose of aspirin is 160 – 325 mg

Right ventricular MI - caution with NTG

Cardiac Rhythm Strips to Interpret

- Ventricular Tachycardia
 - Stable
 - Unstable
 - Monomorphic
- Supraventricular tachycardia, unstable
- Heart Blocks
 - Second-degree atrioventricular Type I
 - Second-degree atrioventricular Type II
 - Third degree atrioventricular
- Ventricular Fibrillation
- PEA, Pulseless Electrical Activity

Bradycardia

Need to assess stable versus unstable

If stable . . .

- Monitor, observe, and obtain expert consultation

If unstable . . .

- Atropine 0.5mg IV. Can repeat Q 3-5 minutes to 3 mg
 - Maximum dose is 3mg (including heart blocks)
- If Atropine ineffective
 - Dopamine infusion (2-20mcg/kg/min)
 - Epinephrine infusion (2-10mcg/min)
 - Transcutaneous pacing

Tachycardia with a Pulse

•If unstable (wide or narrow)-go straight to

synchronized cardioversion (sedate first)

•If stable narrow complex

- obtain 12 lead
- vagal maneuvers
- adenosine 6mg RAPID IVP, followed by 12mg

Pulseless Rhythms - Cardiac Arrest - CPR

Oxygen, monitor, IV, Fluids, Glucose Check

Agonal gasps are a likely indicator

- 2 minute cycles of compressions, shocks (if VF/VT), and rhythm checks
- Epinephrine 1 mg first every 3-5 minutes (preferred method peripheral IV)

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Sandra M. Nettina



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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 Review Made Incredibly Easy** Laura Willis,2023-11-09 ACLS Review Made Incredibly Easy 4th Edition is packed with easy to remember definitions and step by step directions on the latest algorithms giving you the confidence you need to pass the ACLS certification exam as well as the knowledge and skills needed to perform advanced cardiac life support *Lippincott Manual of Nursing Practice* Suresh K. Sharma,2019-01-01 NA *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 **COMPLETE REVIEW OF MEDICINE FOR NBE** Dr Deepak Marwah,2018-04-14 All concepts of ECG from basics to advanced have been covered All 2017 updates for the management of various diseases have been extensively covered EEG concepts have been simplified for conceptual understanding All recent protocols have been covered at relevant places Diseases like diabetes and AIDS have been updated with relevant recent amendments Latest updates from CMDT 2018 have been covered throughout the text **Lippincott Q&A Certification Review: Emergency Nursing (CEN)** Patricia L. Clutter,2019-07-29 Face the demands of the emergency nursing certification exam CEN with the self assurance that only the right kind of preparation can bring with the newly updated Lippincott Q A Certification Review 3rd Edition This ideal study guide offers 175 multiple choice

questions divided evenly among body systems and written in the same style and similar content as those created by the Board of Certification for Emergency Nursing BCEN Offering end of chapter answers and rationales plus two end of book practice exams this is the optimal study guide for all RNs preparing for the CEN exam *ACLS Review Made Incredibly Easy* LWW,Kate Stout,2017-01-26 CLS Review Made Incredibly Easy gives you the confidence you need to pass the ACLS certification exam as well as the knowledge and skills needed to perform advanced cardiac life support Packed with easy to remember definitions and step by step directions on the latest treatment algorithms this enjoyable review text tackles required ACLS course and exam content It is also the perfect on the spot clinical reference for nurses students and all healthcare professionals Be expertly guided through the latest ACLS training and exam preparation with NEW and updated content in quick read bulleted format based on current American Heart Association guidelines NEW and updated cardiovascular pharmacology content NEW and updated interventions Explains ACLS course and exam components and requirements Proven study strategies end of chapter quick quizzes and an end of book practice test Explanations of complex concepts easy to retain guidance on how to recognize and treat cardiac arrhythmias including Classifications of interventions including basic life support skills adult cardiac arrest algorithm and defibrillation Step by step how tos for current treatment algorithms Managing specific rhythms hypovolemia hypoxia acidosis hypothermia cardiac tamponade tension pneumothorax pulmonary coronary thrombosis and more Dozens of colorful diagrams and illustrations outline the core concepts and skills needed for ACLS certification including CPR when and how to use it Devices and procedures skills safe ventilation techniques including endotracheal intubation and supraglottic devices as well as defibrillators pacemakers and more Early management managing the first 30 minutes of cardiac emergencies Emergency conditions which cardiac rhythms may require ACLS treatment IV and invasive techniques such as peripheral and central IV line insertion Pharmacology knowing the action indication dosages and precautions for the major drugs used during ACLS Special features that include Just the facts quick summary of each chapter s content o Nurse Joy and Nurse Jake expert insights on interventions and problem solving Quick quiz multiple choice questions after each chapter to help you retain knowledge o Now I get it real life patient scenarios illustrating correct ACLS interventions o What to look for tips on identifying and interpreting arrhythmias About the Clinical Editor Kate Stout RN MSN is a Critical Care Charge RN at Southern Hills Hospital in Las Vegas Nevada

Moderate Procedural Sedation and Analgesia Michael Kost,2019-03-09 Introducing the definitive resource designed for practitioners working in the rapidly expanding area of moderate procedural sedation and analgesia clinical practice Moderate Procedural Sedation and Analgesia A Question and Answer Approach focuses on the preprocedural procedural and postprocedural care of the moderately sedated patient in a variety of settings This comprehensive text is designed to provide all the content and tools nurses and other clinicians need to demonstrate competency in moderate sedation and analgesia Additionally this user friendly text is written by well known sedation analgesia expert Michael Kost and recommended by

standards of practice from the ANA AORN and the American Academy of Pediatrics New clinically focused text ensures clinicians involved in the administration and management of patients receiving moderate sedation have access to the most up to date information Strong safety focus throughout the book explains how technology and clinician practice can improve sedation administration Chapters organized in clinical problem question plus answer format help you easily comprehend material Follows the latest TJC Sedation Anesthesia Guidelines ensuring you are ready for medication administration in clinical practice Pediatrics and Geriatrics chapters cover specific sedation practice recommendations that address the substantive clinical practice challenges associated with these patient populations Pharmacologic profiles of medications detail their use in the moderate sedation practice setting CEN® Exam Prep Study Guide Springer Publishing Company,2023-03-16 CEN Exam Prep Study Guide gets right to the point with a targeted content based on the latest BCEN exam blueprint This easy to follow guide includes all the tools you need to prepare practice and pass the exam and nothing you don't PREPARE Concise coverage of the content you'll be tested on Quick reference features with complications alerts and nursing pearls Need to know information to prepare you for exam day PRACTICE Two full length practice tests one in book and one online to assess your readiness and simulate the test taking experience Detailed rationales for correct and incorrect answers Pop quizzes that highlight key information you don't want to miss PASS The first time with Springer Publishing Exam Prep's 100% Pass Guarantee With confidence knowing you're well prepared with all the skills and knowledge you need on exam day and in practice With pride in your commitment to patient health and safety CEN is a registered trademark of Board of Certification for Emergency Nursing BCEN BCEN does not sponsor or endorse this resource nor does it have a proprietary relationship with Springer Publishing *Lippincott Manual of Nursing Practice* Sandra M. Nettina,2018-08-27 Publisher's Note Products purchased from 3rd Party sellers are not guaranteed by the Publisher for quality authenticity or access to any online entitlements included with the product A classic nursing reference the fully updated Lippincott Manual for Nursing Practice 11th Edition offers expert nursing knowledge and much needed practical guidance on patient care Authoritative yet easy to follow this comprehensive text guides you through the nursing concepts and skills particularly vital for medical surgical assessment care and treatment Essential for both in the classroom and on the unit guidance this is the expertise that all students new nurses and medical surgical nurses need to grasp essential nursing concepts care management and procedures Onkolojik Aciller Tarkan YETİŞYİĞİT,Serhat ÖRÜN,2020-09-10 **Textbook of Emergency & Trauma Care** Devendra Richhariya,2018-02-28 This book is a comprehensive guide to emergency and trauma care covering the complete process from pre hospital care rapid and point of care assessment and triaging to care of the patient during transfer and in hospital care Beginning with a general overview of emergency care and resuscitation the following sections discuss the treatment of emergencies and trauma in different systems of the body A complete section is dedicated to paediatric emergencies The final chapters cover trauma management

toxicology disaster management and environmental emergencies such as thermal and chemical burns and snake bites The descriptive text is further enhanced by more than 700 flowcharts tables diagrams clinical photographs and short notes to assist learning Key points Comprehensive guide to emergency and trauma care Covers management of emergencies in different systems of the body Includes section on paediatric emergencies Highly illustrated with flowcharts tables diagrams photographs and short notes

Stoelting's Anesthesia and Co-Existing Disease, Fourth South Asia Edition Arun Kumar Paul,Nishkarsh Gupta,Agarwal Jyotsna,2024-06-28 Stoelting s Anesthesia and Co existing Disease Fourth South Asia Edition *Mosby's PDQ for RN - E-Book* Mosby,2015-11-18 Find essential nursing information at a glance Mosby s PDQ for RN Practical Detailed Quick 4th Edition is an easy to use pocket sized guide to important facts formulas and procedures used in the clinical setting It offers quick access to details you need but don t usually memorize such as signs and symptoms medications conversions abbreviations and normal abnormal ranges for lab tests Durable pages and spiral binding can withstand the wear and tear of daily use on the job When in doubt check this handy reference 10 tabbed color coded sections provide quick access to essential facts formulas lab values procedures and more Compact size features durable water resistant pages and spiral binding making the book easy to carry and use in any clinical setting A focus on special populations includes separate sections on pediatric maternity and geriatric patients Emergency Care section provides guidelines for treating stroke patients assessing trauma patients and responding to cardiopulmonary arrest HIPAA and OSHA compliant information reflects the latest practice standards and guidelines Colorful charts and tables make lookup easy and data is thorough enough for even experienced practicing nurses NEW Expanded coverage addresses oxygen delivery hypoglycemic drugs cardiac rhythms STEMI seizure treatment breath sounds and more NEW assessment tools are included for pain nutrition and alcohol abuse UPDATED content reflects the latest clinical developments screening guidelines and drug information

Miller's Anesthesia, 2-Volume Set E-Book Michael A. Gropper,Lars I. Eriksson,Lee A. Fleisher,Jeanine P. Wiener-Kronish,Neal H. Cohen,Kate Leslie,2019-10-07 Covering everything from historical and international perspectives to basic science and current clinical practice Miller s Anesthesia 9th Edition remains the preeminent reference in the field Dr Michael Gropper leads a team of global experts who bring you the most up to date information available on the technical scientific and clinical issues you face each day whether you re preparing for the boards studying for recertification or managing a challenging patient care situation in your practice Contains fully revised and updated content throughout including numerous new videos online Includes four new chapters Clinical Care in Extreme Environments High Pressure Immersion and Hypo and Hyperthermia Immediate and Long Term Complications Clinical Research and Interpreting the Medical Literature Addresses timely topics such as neurotoxicity palliation and sleep wake disorders Streamlines several topics into single chapters with fresh perspectives from new authors making the material more readable and actionable Features the knowledge and expertise of former lead editor Dr Ronald Miller as well as new editor Dr Kate Leslie of the

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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 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 specific quick links employ QR codes for instant access to high quality online references Edited by the American Association of Critical Care Nurses written by more than 100 expert critical care clinicians under the direction of Karen L Johnson PhD RN FAAN and extensively reviewed by more than 100 additional critical care experts to ensure the accuracy and currency Comprehensive coverage includes all procedures commonly performed in progressive and critical care settings including those performed by advanced practice nurses indicated by an AP icon Straightforward step by step organization uses consistent headings to make following a procedure and finding the various supporting elements quick and easy with bulleted lists tables and detailed illustrations throughout to ensure that content is easy to reference and follow Rationales for all interventions in patient and family education assessment patient preparation procedure and monitoring help students understand the rationale for every step and a level of evidence is provided when a research base exists to substantiate an intervention giving insight into the strength of recommendations

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guidelines and national and international protocols NEW Full color design with color reference tabs enhances navigation plus full color illustrations reinforce understanding UPDATED Key AACN initiatives such as Practice Alerts are integrated throughout and content coordinates with the AACN Core Curriculum for Progressive and Critical Care Nursing 8th Edition NEW Chapter specific quick links via QR codes provide quick access to online references which have been updated and limited to the highest value sources **Patient Safety, An Issue of Oral and Maxillofacial Clinics of North America**

David W. Todd, Jeffrey D. Bennett, 2017-05-06 This issue of Oral and Maxillofacial Surgery Clinics of North America focuses on Patient Safety and is edited by Drs David Todd and Jeffrey D Bennett Articles will include General concepts of patient safety for the oral surgeon Proper management of medications to limit errors Preventing wrong site surgery for the oral and maxillofacial surgeon Fire safety for the oral surgeon and staff Preoperative preparation and planning of the oral and maxillofacial surgery patient Team staff and simulation training Obstructive sleep apnea and obesity considerations for the oral surgeon Monitoring for the oral and maxillofacial surgeon Discharge criteria and how it is impacted by patient and procedure The malpractice system versus patient safety Equipment safety maintenance and inspection Reporting systems and surgery registries for the oral surgeon and more *The Ophthalmic Assistant E-Book* Harold A. Stein, Raymond M. Stein, Melvin I. Freeman, Rebecca Stein, 2021-12-28 Covering all the knowledge and skills needed for everyday duties as well as success on certification and recertification exams The Ophthalmic Assistant 11th Edition is an essential resource for allied health personnel working in ophthalmology optometry opticianry and other eye care settings Drs Harold A Stein Raymond M Stein and Melvin I Freeman are joined by new editor Dr Rebecca Stein and several new contributing authors who provide practical up to date guidance on ocular diseases surgical procedures medications and equipment as well as paramedical procedures and office management for today's practice This outstanding reference and review tool provides essential knowledge and guidance for ophthalmic assistants technicians and technologists as critical members of the eye care team Keeps you up to date with coverage of key topics such as topography guided PRK cataract surgery with multifocal IOLs to treat presbyopia and OCT and OCTA as well as the latest information on basic science new testing procedures and equipment and two new chapters on refractive surgery and eye banking Provides full color visual guidance for identification of ophthalmic disorders explanations of difficult concepts and depictions of the newest equipment used in ophthalmology and optometry more than 1 000 images in all Features more than 400 interactive multiple choice review questions that test your knowledge and understanding of key concepts Includes a bonus color image atlas that tests your clinical recognition of disease and disorders of the eye Contains convenient quick reference appendices with hospital practice forms for more efficient patient record keeping conversion tables and numerous language translations plus information on ocular emergencies pharmaceuticals and more Enhanced eBook version included with purchase Your enhanced eBook allows you to access all of the text figures and references from the book on a variety of devices *Mosby's PDQ for LPN - E-Book*

Mosby, 2015-11-27 NEW Expanded coverage addresses oxygen delivery hypoglycemic drugs cardiac rhythms STEMI seizure treatment breath sounds and more NEW assessment tools are included for pain nutrition and alcohol abuse UPDATED content reflects the latest clinical developments screening guidelines and drug information **Mayo Clinic Critical and Neurocritical Care Board Review** Rodrigo Cartin-Ceba, William D. Freeman, Alice Gallo de Moraes, Richard A Oeckler, 2025-07-28 This book provides a comprehensive review of critical care medicine to assist in preparation of the neurocritical care and general critical care boards

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