ACLS Study Guide (2020 Guidelines)



Pre-Course Requirements

The ACLS course now requires a mandatory Precourse Self-Assessment and Precourse Work with a passing score of at least 70%. Students may take the self-assessment as many times as needed. Please bring your Certificate of Completion with you to the ACLS class or email in advance to pretest@expresstraining.com. Instructions for accessing the Precourse Requirements are included in your registration confirmation.

ACLS Written Exam

The ACLS Provider exam is 50 multiple-choice questions, with a required passing score is 84%. All AHA exams are now "open resource" which means student may use the ACLS manual, study guides, handouts and personal notes during the exam. Using the ACLS Provider Manual ahead of time with the online resources is very helpful.

BLS Review

Assessment Steps for BLS	Compressions
 Make sure scene is safe Tap/shout to check for responsiveness Call for help if patient is unresponsive Check for pulse and breathing for at least 5 but no more than 10 seconds If no pulse (or not sure if there is a pulse) begin CPR 	At least 2 inches with a rate between 100 – 120/min Allow for full recoil PEtCO2 (intubated) < 10 mmHg indicates poor compressions interruptions in compressions should be < 10 seconds Switch compressors every 2 min. Waveform Capnography is the most reliable method of confirming placement and monitoring of ETT Pre-charging the defibrillator 15 seconds before the rhythm can improve CCV
Breaths During CPR	Rescue Breathing
Limit interruptions to less than 10 seconds Ratio of compressions to breaths 30:2 or other advanced protocols that maximize CCF Each breath given over 1 second An effective breath will result in visible chest rise CPR with ETT: 1 breath every 6 seconds with continuous compressions Excessive ventilation = decreased cardiac output	For a patient who is not breathing or breathing effectively give 1 breath every 6 seconds Give breaths gently, over 1 second An effective breath will result in visible rise/fall of the chest Excessive ventilation decreases cardiac output Difficulty positioning airway for patency, place NPA or OPA OPA Placement = Measure from the corner of the mouth to the angle of the mandible

ACS and Stroke

ACS - STEMI	Stroke
 Assessment: Pale, cool, diaphoretic, chest pain, dyspnea, anxiety, hypotension, poor perfusion Aspirin 162-325 mg Time frame to start Coronary Reperfusion (PCI) should be < 90min from ER arrival 	Noncontrast Head CT within 20 min. of hospital arrival. A normal CT may rule out hemorrhagic stroke To better facilitate care, notify receiving hospital in advance ischemic Stroke: start fibrinolytic therapy ASAP if there are no contraindications Hemorrhagic Stroke: neuro consult

RRT and MET (Rapid Response Team / Medical Emergency Team)

- MET / RRT focuses on prevention of deuteriation to cardiac arrest
- · Improve patient care by identifying and treating early clinical deterioration

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Michael Brown

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Histocompatibility and Immunogenetics Volker Oberle, 2025-09-26 The EFI ASHI and APHIA endorsed professional quide for laboratory diagnostics in transplantation medicine In Histocompatibility and Immunogenetics A Guide for Practitioners expert authors from across the globe deliver an authoritative introduction to the concepts methods and clinical applications of matching donors with acceptors of transplanted cells and organs Fundamental concepts and limitations of current immunogenetic as well as histocompatibility diagnostic approaches are explained and best practices to improving the outcomes of transplantation therapies are discussed Readers will also find A holistic view of transplantation diagnostics including drug and disease associations with histocompatibility markers Options for the medical treatment of organ rejection Practical discussions of specific methods in immunogenetics and histocompatibility such as crossmatching in transplantation and KIR genotyping A thorough introduction to the regulatory aspects of histocompatibility and immunogenetics Perfect for clinical geneticists and immunologists Histocompatibility and Immunogenetics will also benefit medical and research professionals working in medical laboratories and hospitals **Manual of Molecular and Clinical Laboratory** Immunology John L. Schmitz, Barbara Detrick, Maurice R. O'Gorman, 2024-12-24 THE authoritative guide for clinical laboratory immunology For nearly 50 years the Manual of Molecular and Clinical Laboratory Immunology has been the premier resource for laboratories students and professionals involved in the clinical and technical details of diagnostic immunology testing The 9th Edition continues its tradition of providing comprehensive clinical and technical information on the latest technologies used in medical and diagnostic immunology Led by a world renowned group of authors and editors this new edition reflects substantial changes aimed at improving and updating the Manual's utility while reflecting the significant transformations that have occurred since the last edition including the revolution of gene editing and the widespread adoption of molecularly engineered cellular therapies Topical highlights include Laboratory Management three new chapters cover essential aspects of quality assurance quality improvement and quality management aligning with the increasingly stringent and demanding regulatory environment Inborn Errors of Immunity the primary immunodeficiency section has been completely updated to align with the latest International Union of Immunological Societies classifications of inborn errors of immunity Functional Cellular Assays expanded content includes detailed discussions on various functional assays critical for modern immunologic testing Autoimmune Diseases expanded chapters on systemic and organ specific autoimmune disorders including new chapters on Sj gren s syndrome and deficiency of ADA2 as well as significant updates on organ specific autoimmune diseases Transplantation Immunology updated chapters detail the assessment of immune reconstitution and ABO testing reflecting latest practices The 9th Edition of the Manual of Molecular and Clinical Laboratory Immunology serves as an invaluable resource for laboratory directors clinicians laboratory managers technologists and students It provides critical insights into the selection application and interpretation of immunologic tests offering practical

guidance on troubleshooting clinical application and an understanding of test limitations This comprehensive and up to date manual remains an essential tool for anyone involved in the diagnosis evaluation and management of immune mediated and immune system related disorders Elsevier's Medical Laboratory Science Examination Review Linda Graeter, Elizabeth Hertenstein, Charity Accurso, Gideon Labiner, 2014-08-28 Elsevier s Medical Laboratory Science Examination Review is a brand new resource that offers all the review practice and support you need to prepare for the either the MLS or MLT certification examination Each chapter in the book offers a thorough review on one of the core areas of Medical Laboratory Science as outlined by the ASCP Board of Certification Practice questions are also featured at the end of each chapter and explanations and rationales for each correct answer appear at the end of the text Plus an eight page full color insert displays photomicrographs of hematological and microbiological specimens exactly as they appear under the microscope and on the MLS and MLT certification exams A mock certifications exam is included in the print book as well as online at the companion Evolve website which also houses additional practice questions totaling 1 000 questions in all Inclusion of both MLS and MLT level content and questions enables the book to be used for both certification exams Print mock exam at the end of the book contains 100 certification examination preparation questions Content reviews in outline form enables each topic to be easily reviewed but covered in an appropriate depth Online mock exams on the companion Evolve website include all the practice questions from the book plus additional unique questions that can be used to create mock exams for extra practice Eight page full color insert within the book features 50 illustrations that show hematological and microbiological photomicrographs Test taking tips and suggestions discuss the exam how it s set up and scored when to answer guess and not answers questions how to identify distracters and more **Systems Biology and Bioinformatics** Kayvan Najarian, Siamak Najarian, Shahriar Gharibzadeh, Christopher N. Eichelberger, 2009-04-13 The availability of molecular imaging and measurement systems enables today s biologists to swiftly monitor thousands of genes involved in a host of diseases a critical factor in specialized drug development Systems Biology and Bioinformatics A Computational Approach provides students with a comprehensive collection of the computational methods Manual of Molecular and Clinical Laboratory Immunology Barbara Detrick, John L. Schmitz, Robert G. Hamilton, 2020-07-16 THE authoritative guide for clinical laboratory immunology For over 40 years the Manual of Molecular and Clinical Laboratory Immunology has served as the premier guide for the clinical immunology laboratory From basic serology testing to the present wide range of molecular analyses the Manual has reflected the exponential growth in the field of immunology over the past decades This eighth edition reflects the latest advances and developments in the diagnosis and treatment of patients with infectious and immune mediated disorders The Manual features detailed descriptions of general and specific methodologies placing special focus on the interpretation of laboratory findings and covers the immunology of infectious diseases including specific pathogens as well as the full range of autoimmune and immunodeficiency diseases cancer and transplantation Written to guide the

laboratory director the Manual will also appeal to other laboratory scientists especially those working in clinical immunology laboratories and pathologists It is also a useful reference for physicians mid level providers medical students and allied health students with an interest in the role that immunology plays in the clinical laboratory **Clinical Laboratory** Management Timothy C. Allen, Vickie S. Baselski, Deirdre L. Church, Donald S. Karcher, Michael R. Lewis, Andrea J. Linscott, Melinda D. Poulter, Gary W. Procop, Alice S. Weissfeld, Donna M. Wolk, 2024-03-25 Clinical Laboratory Management Apply the principles of management in a clinical setting with this vital guide Clinical Laboratory Management Third Edition edited by an esteemed team of professionals under the guidance of editor in chief Lynne S Garcia is a comprehensive and essential reference for managing the complexities of the modern clinical laboratory. This newly updated and reorganized edition addresses the fast changing landscape of laboratory management presenting both foundational insights and innovative strategies Topics covered include an introduction to the basics of clinical laboratory management the regulatory landscape and evolving practices in the modern healthcare environment the essence of managerial leadership with insights into employee needs and motivation effective communication and personnel management including the lack of qualified position applicants burnout and more financial management budgeting and strategic planning including outreach up to date resources for laboratory coding reimbursement and compliance reflecting current requirements standards and challenges benchmarking methods to define and measure success the importance of test utilization and clinical relevance future trends in pathology and laboratory science including developments in test systems human resources and workforce development and future directions in laboratory instrumentation and information technology an entirely new section devoted to pandemic planning collaboration and response lessons learned from COVID 19 and a look towards the future of laboratory preparedness This indispensable edition of Clinical Laboratory Management not only meets the needs of today s clinical laboratories but anticipates the future making it a must have resource for laboratory professionals managers and students Get your copy today and equip yourself with the tools strategies and insights to excel in the complex and ever changing world World Guide to Scientific Associations and Learned Societies Helmut Opitz, 2002 Previous of the clinical laboratory editions are cited in Books for College Libraries 3rd ed This guide contains descriptions of about 17 500 associations and societies from the fields of science culture and technology Arrangement is alphabetically by name within an alphabetical listing of countries Indexing is by association names persons and subjects Each entry gives the association name where applicable extension to name abbreviation name in English former name contact information homepage year of foundation number of members names of officials details of periodical publications and whether or not a library and or archives exists New information includes details on aims and activities awards grants and events Distributed by Gale Annotation copyrighted by Book News Inc Portland OR Kidney Transplantation: A Guide to the Care of Kidney Transplant Recipients Dianne B. McKay, Steven M. Steinberg, 2010-04-26 Kidney Transplantation A Guide to the Care of Transplant Recipients is an

easy to read up to date clinical resource written by experts in the field of kidney transplantation. The book explains how donors and recipients are selected for transplantation how the surgical procedure is performed and how the experts recognize and treat rejection Clearly illustrated chapters show how the immune system works in the setting of transplantation and how immunosuppressive medications prevent rejection of the transplanted kidney knowledge essential for the proper care of the transplant recipient The acute and long term care of the patient is described from the perspective not only of proper immunosuppressive medication management but also from the perspective of comorbidities most common to transplanted patients including cardiovascular disease diabetes mellitus infectious diseases malignancies and bone disease Special issues that impact the care of the transplant recipient such as unusual donor sources nonadherence and insurability are also addressed Molecular Biology of Hematopoiesis 5 Nader G. Abraham, Shigetaka Asano, G. Brittinger, G. J.M. Maestroni, R.K. Shadduck, 2012-12-06 This volume of Molecular Biology of Hematopoiesis is dedicated to John W Adam son M D Tadamitsu Kishimoto M D Robert C Gallo M D Arthur W Nienhuis M D and Franco Mandelli M D for their contributions in developing an overall view of the state of the art knowledge in the field of hematopoiesis Richard Champlin among other renowned clinicians presented updated information on stem cells and T cell depletion for bone marrow transplant A clinical update on thrombopoietin was presented by Pamela Hunt of Amgen and by Kenneth Kaushansky Arthur Nienhuis and Katherine Turner's contributions to our current knowledge and advances in the fields of growth factors and gene transfer were also recognized during the 9th Symposium on Molecular Biology of Hematopoiesis in Genoa The chapters cover such diverse areas as preclinical and clinical updates on growth factors and positive and negative regulatory molecules Advances in Leukemia Mechanism and Treatment by Interferon was presented by Professor Sante Tura Readers will find presentation of exciting advances that have occurred in the area of hematopoiesis The elucidation of gene structures of key growth factor proteins such as IL 12 and IL II will lead to new insights and new approaches in understanding the regulation of hematopoiesis as well as application of new growth factors Molecular Diagnostics Lela Buckingham, 2019-02-22 Meet the challenges of this rapidly expanding field with a solid understanding of the fundamentals of nucleic acid biochemistry as well as the advanced concepts integral to practice in today s laboratories With a focus on the application of molecular concepts to the diagnosis of disease the 3rd Edition of this popular resource encompasses microbiology virology genetics oncology and human identification

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