

## Ep23 A Laboratory Quality Control Based On Risk 339132

In October of 2011, CLSI published a new guideline EP23A on “Laboratory Quality Control Based on Risk Management. In March, 2012, CMS announced its intention to incorporate key concepts from EP23A into its Interpretative Guidelines and QC policy for “Individualized Quality Control Plans. Thus begins a new era of Quality Control in the Age of Risk Management. This issue is intended to help laboratories with the transition between traditional QC practices and the new risk management approach. Laboratories face a steep learning curve to apply risk analysis for identifying and prioritizing failure-modes, developing and implementing control mechanisms to detect those failure-modes, and assessing the acceptability of the residual risks that exist after implementation of a QC Plan. One of the main benefits of the new risk analysis based QC Plans should be an integration of all the control mechanisms that are needed to monitor the total testing process, including pre-analytic, analytic, and post-analytic controls. One of the main risks of the new approach is an expectation that Statistical QC is no longer important, even though SQC still remains the most useful and flexible approach for monitoring the quality of the analytic process. The key to the future is the successful integration of all these control mechanisms to provide a cost-effective quality system that monitors all phases of the total testing process. This issue should help laboratories understand the evolution of QC practices to include risk management, but also to recognize the need to maintain traditional techniques such as Statistical QC, especially during the transition to well-designed and carefully-validated QC Plans. Risk analysis may be risky business unless laboratories proceed carefully and cautiously.

Thoroughly updated and easy-to-follow, Linne & Ringsrud's Clinical Laboratory Science: Concepts, Procedures, and Clinical Applications, 8th Edition offers a fundamental overview of the laboratory skills and techniques you'll need for success in the clinical laboratory. Author Mary Louise Turgeon's simple and straightforward writing clarifies complex concepts, and her unique discipline-by-discipline approach helps you build knowledge and learn to confidently perform routine clinical laboratory tests with accurate, effective results. Topics like safety, measurement techniques, and quality assessment are woven throughout the various skills. The new eighth edition also features updated content including expanded information on viruses and automation. It's the must-have foundation for anyone wanting to pursue a profession in the clinical lab. Broad content scope provides an ideal introduction to clinical laboratory science at a variety of levels, including CLS/MT, CLT/MLT, and Medical Assisting. Case studies include critical thinking and multiple-choice questions to challenge readers to apply the content to real-life scenarios. Expert insight from respected educator Mary Lou Turgeon reflects the full spectrum of clinical lab science. Detailed procedures guides readers through the exact steps performed in the lab. Vivid full-color illustrations familiarize readers with what they'll see under the microscope. Review questions at the end of each chapter help readers assess your understanding and identify areas requiring additional study. Evolve companion website provides convenient online access to all of the procedures in the text and houses animations, flashcards, and additional review questions not found in the printed text. Procedure worksheets can be used in the lab and for assignment as homework. Streamlined approach makes must-know concepts and practices more accessible. Convenient glossary simplifies the process of looking up definitions without having to search through each chapter. NEW! Updated content throughout keeps pace with constant changes in clinical lab science. NEW! Consistent review question format ensures consistency and enables readers to study more efficiently. NEW! More discussion of automation familiarizes readers with the latest automation technologies and processes increasingly used in the clinical lab to increase productivity and elevate experimental data quality. NEW! Additional information on viruses keeps readers up to date on this critical area of clinical lab science.

Quality refers to the amount of the unpriced attributes contained in each unit of the priced attribute. Leffler, 1982 Quality is neither mind nor matter, but a third entity independent of the two, even though Quality cannot be defined, you know what it is. Pirsig, 2000 The continuous formulation of good practices and procedures across fields reflects t

Recognized as the definitive book in laboratory medicine since 1908, Henry's Clinical Diagnosis and Management by Laboratory Methods, edited by Richard A. McPherson, MD and Matthew R. Pincus, MD, PhD, is a comprehensive, multidisciplinary pathology reference that gives you state-of-the-art guidance on lab test selection and interpretation of results. Revisions throughout keep you current on the latest topics in the field, such as biochemical markers of bone metabolism, clinical enzymology, pharmacogenomics, and more! A user-friendly full-color layout puts all the latest, most essential knowledge at your fingertips. Update your understanding of the scientific foundation and clinical application of today's complete range of laboratory tests. Get optimal test results with guidance on error detection, correction, and prevention as well as cost-effective test selection. Reference the information you need quickly and easily thanks to a full-color layout, many new color illustrations and visual aids, and an organization by organ system. Master all the latest approaches in clinical laboratory medicine with new and updated coverage of: the chemical basis for analyte assays and common interferences; lipids and dyslipoproteinemia; markers in the blood for cardiac injury evaluation and related stroke disorders; coagulation testing for antiplatelet drugs such as aspirin and clopidogrel; biochemical markers of bone metabolism; clinical enzymology; hematology and transfusion medicine; medical microbiology; body fluid analysis; and many other rapidly evolving frontiers in the field. Effectively monitor the pace of drug clearing in patients undergoing pharmacogenomic treatments with a new chapter on this groundbreaking new area. Apply the latest best practices in clinical laboratory management with special chapters on organization, work flow, quality control, interpretation of results, informatics, financial management, and establishing a molecular diagnostics laboratory. Confidently prepare for the upcoming recertification exams for clinical pathologists set to begin in 2016.

The inappropriate use of antibiotics is a primary cause of the ongoing increase in drug resistance among pathogenic bacteria. The resulting decrease in the efficacy of antibiotics threatens our ability to combat infectious diseases. Rapid,

point-of-care tests to identify pathogens and better target the appropriate treatment could greatly improve the use of antibiotics. Yet there are few such tests currently available or being developed despite the rapid pace of medical innovation. Clearly something is inhibiting the much-needed development of new and more convenient diagnostic tools. This study delineates priorities for developing diagnostics to improve antibiotic prescription and use with the goal of managing and curbing the expansion of drug resistance. It calls for new approaches, particularly in the provision of diagnostic devices, and, in doing so, outlines some of the inadequacies in health, science and policy initiatives that have led to the dearth of such devices. The authors make the case that there is a clear and urgent need for innovation, not only in the technology of diagnosis, but also in public policy and medical practice to support the availability and use of better diagnostic tools. This book explores the complexities of the diagnostics market from the perspective of both supply and demand, unearthing interesting bottlenecks, some obvious, some more subtle. It calls for a multifaceted and broad policy response, and an overhaul of current practice, so that the growth of bacterial resistance can be stemmed.

The 2015 Master Medicare Guide is packed with timely and useful information to help you stay on top of one of the most complex programs administered by the federal government. The 2015 Edition includes: Over 500 explanation summaries for all aspects of the Medicare program coverage, eligibility, reimbursement, fraud and abuse, and administration Highlights of the Protecting Access to Medicare Act of 2014 (P.L. 113-93) and the Improving Medicare Post-Acute Care Transformation Act of 2014 (P.L. 113-185)"; the most recent physician fee schedule reimbursement fix; A focus on the continuing implementation of the Affordable Care Act as it relates to Medicare, including accountable care organizations and a tighter link between the quality of health care and Medicare reimbursement All discussions include cross-references to relevant laws, regulations, CMS manual sections, administrative and judicial decisions, and more!

In response to the ever-changing needs and responsibilities of the clinical microbiology field, Clinical Microbiology Procedures Handbook, Fourth Edition has been extensively reviewed and updated to present the most prominent procedures in use today. The Clinical Microbiology Procedures Handbook provides step-by-step protocols and descriptions that allow clinical microbiologists and laboratory staff personnel to confidently and accurately perform all analyses, including appropriate quality control recommendations, from the receipt of the specimen through processing, testing, interpretation, presentation of the final report, and subsequent consultation.

Clinical Chemistry: Principles, Techniques, and Correlations, Enhanced Eighth Edition demonstrates the how, what, why, and when of clinical testing and testing correlations to help you develop the interpretive and analytic skills you'll need in your future career.

Contemporary Practice in Clinical Chemistry, Fourth Edition, provides a clear and concise overview of important topics in the field. This new edition is useful for students, residents and fellows in clinical chemistry and pathology, presenting an introduction and overview of the field to assist readers as they in review and prepare for board certification examinations. For new medical technologists, the book provides context for understanding the clinical utility of tests that they perform or use in other areas in the clinical laboratory. For experienced laboratorians, this revision continues to provide an opportunity for exposure to more recent trends and developments in clinical chemistry. Includes enhanced illustration and new and revised color figures Provides improved self-assessment questions and end-of-chapter assessment questions

This issue of Clinics in Laboratory Medicine entitled "Risk, Error and Uncertainty: Laboratory Quality Management in the Age of Metrology will be guest edited by Sten Westgard, James Westgard, and David Armbruster. The issue will cover a broad range of topics related to management in the laboratory including but not limited to: Metrology Perspectives; Biologic Variation Approach to Daily Laboratory; Clinical Outcome Approach to Goal Setting; Six Sigma Quality Management System; Traceability and Comparability; MU, Risk, and Sigma-metrics at Sunway; and Quality Indicators for the Total Testing Process, among others. To interpret the laboratory results. To distinguish the normal from the abnormal and to understand the merits and demerits of the assays under study. The book attempts to train a laboratory medicine student to achieve sound knowledge of analytical methods and quality control practices, to interpret the laboratory results, to distinguish the normal from the abnormal and to understand the merits and demerits of the assays under study.

"This document provides updated tables for the Clinical and Laboratory Standards Institute antimicrobial susceptibility testing standards M02-A12, M07-A10, and M11-A8"--Cover.

Das vorliegende Werk gibt einen aktuellen Überblick über die wichtigsten POCT-Analyseverfahren und POCT-Geräte sowie deren klinische Anwendung. Darüber hinaus liefert es Informationen, u.a. zu medizinischer und wirtschaftlicher Bedeutung von POCT, Methodik, Organisation, Qualitätssicherung und den Trends für die Zukunft. Die 3. Auflage wurde komplett aktualisiert und erweitert und trägt den neuesten Entwicklungen auf dem Gebiet Rechnung. Neue Themen sind u.a. POCT-taugliche molekularbiologische Verfahren und der internationale Vergleich der Qualitätsregeln für POCT. Das Buch wendet sich an alle, die bereits patientennahe Laboruntersuchungen durchführen oder zukünftig einführen möchten: Ärzte aller Fachbereiche, POCT-Beauftragte, Verantwortungsträger in Kliniken und Krankenhausverwaltungen. Aber auch die Entwicklungsabteilungen von IVD-Unternehmen erhalten wertvolle Informationen über Entwicklungstendenzen und die neuen Anforderungen der europäischen Gesetzgebung an POCT-Geräte und -Reagenzien.

Every clinical laboratory devotes considerable resources to Quality Control. Recently, the advent of concepts such as Analytical Goals, Biological Variation, Six Sigma and Risk Management has generated a renewed interest in the way to perform QC. However, laboratory QC practices remain highly non-standardized and a lot of QC questions are left unanswered. The objective of this book is to propose a roadmap for the application of an integrated QC protocol that ensures the safety of patient results in the everyday lab routine.

The Tietz Textbook of Clinical Chemistry and Molecular Diagnostics, 6th Edition provides the most current and authoritative guidance on selecting, performing, and evaluating the results of new and established laboratory tests. This classic clinical chemistry reference offers encyclopedic coverage detailing everything you need to know, including: analytical criteria for the medical usefulness of laboratory tests, variables that affect tests and results, laboratory medicine, applications of statistical methods, and most importantly clinical utility and interpretation of laboratory tests. It is THE definitive reference in clinical chemistry and molecular diagnostics, now fully searchable and with quarterly content updates, podcasts, clinical cases,

animations, and extended content online through Expert Consult. Analytical criteria focus on the medical usefulness of laboratory procedures. Reference ranges show new approaches for establishing these ranges — and provide the latest information on this topic. Lab management and costs gives students and chemists the practical information they need to assess costs, allowing them to do their job more efficiently and effectively. Statistical methods coverage provides you with information critical to the practice of clinical chemistry. Internationally recognized chapter authors are considered among the best in their field. Two-color design highlights important features, illustrations, and content to help you find information easier and faster. NEW! Internationally recognized chapter authors are considered among the best in their field. NEW! Expert Consult features fully searchable text, quarterly content updates, clinical case studies, animations, podcasts, atlases, biochemical calculations, multiple-choice questions, links to Medline, an image collection, and audio interviews. You will now enjoy an online version making utility of this book even greater. UPDATED! Expanded Molecular Diagnostics section with 12 chapters that focus on emerging issues and techniques in the rapidly evolving and important field of molecular diagnostics and genetics ensures this text is on the cutting edge and of the most value. NEW! Comprehensive list of Reference Intervals for children and adults with graphic displays developed using contemporary instrumentation. NEW! Standard and international units of measure make this text appropriate for any user — anywhere in the world. NEW! 22 new chapters that focus on applications of mass spectrometry, hematology, transfusion medicine, microbiology, biobanking, biomarker utility in the pharmaceutical industry and more! NEW! Expert senior editors, Nader Rifai, Carl Wittwer and Rita Horvath, bring fresh perspectives and help ensure the most current information is presented. UPDATED! Thoroughly revised and peer-reviewed chapters provide you with the most current information possible.

This totally revised second edition is a comprehensive volume presenting authoritative information on the management challenges facing today's clinical laboratories. Provides thorough coverage of management topics such as managerial leadership, personnel, business planning, information management, regulatory management, reimbursement, generation of revenue, and more. Includes valuable administrative resources, including checklists, worksheets, forms, and online resources. Serves as an essential resource for all clinical laboratories, from the physician's office to hospital clinical labs to the largest commercial reference laboratories, providing practical information in the fields of medicine and healthcare, clinical pathology, and clinical laboratory management, for practitioners, managers, and individuals training to enter these fields.

Risk Analysis is coming to medical laboratories. But for too many labs, Risk Analysis is a buzzword without meaning, an approach without defined technique. At worst, it threatens to appear like science while being implemented like guesswork. In this book, Dr. Westgard surveys the ISO standards, as well as published CLSI guidelines, and the long-established Joint Commission methodology for Proactive Risk Reduction. After providing an overview of the general Risk Analysis approach, Dr. Westgard explains how to adapt the principles for the medical laboratory, with performance-based tools and practical implementation tips: \* Process maps, flowcharts and fishbone diagrams \* Risk Acceptability matrices \* Assessment of hazards through Failure Mode Effects Analysis (FMEA) \* Fault Tree Analysis (FTA) and Failure Reporting, Analysis and Corrective Actions System (FRACAS) \* Six Sigma metric integration into Risk Analysis Using Six Sigma metrics, Dr. Westgard shows how Risk Analysis can be converted from qualitative and ephemeral to something more quantitative and concrete. When performance data informs Risk Analysis, the decisions become more relevant to medical laboratories and the patients they serve. Don't settle for arbitrary guesswork in your Risk Analysis. Combine the power of Six Sigma and Risk Analysis tools.

Clinical Diagnostic Tests is a convenient, quick-reference guide to common errors and pitfalls in test selection and result interpretation for practitioners and trainees in all areas of clinical medicine. Authored by recognized experts and educators in laboratory medicine, it provides timely, practical guidance about what to do and what not to do for practitioners ordering or interpreting clinical tests. Each topic features a concise overview and summary followed by a list of bulleted standards of care that will enable practitioners to quickly recognize and avert a potential problem. Organized for easy access to critical information, this pithy guide addresses all major issues practitioners are likely to encounter during their day-to-day clinical work. It is intended for practitioners in pathology, laboratory medicine, primary care as well as nurse practitioners and physician assistants. It is also a valuable resource for clinical trainees and students who need to learn effective, efficient use of the clinical lab in practice. Key Features: Provides practical guidance for avoiding common errors and pitfalls in lab test selection and interpretation Includes pithy overviews and recommendations for quick reference Written by expert authors and educators in laboratory medicine Presents bulleted standards of care Serves as a concise, to-the-point teaching guide About the Author: Michael Laposata, MD, PhD, is Chair of Pathology, Director of Division of Laboratory Medicine and Clinical Laboratories, University of Texas Medical Branch, Galveston

Get the foundational knowledge you need to successfully work in a real-world, clinical lab with Tietz Fundamentals of Clinical Chemistry and Molecular Diagnostics, 8th Edition. From highly respected clinical chemistry expert Nader Rifai, this condensed, easier-to-understand version of the acclaimed Tietz Textbook of Clinical Chemistry and Molecular Diagnostics uses a laboratory perspective to guide you through selecting and performing diagnostic lab tests and accurately evaluating the results. Coverage includes laboratory principles, analytical techniques, instrumentation, analytes, pathophysiology, and more. This eighth edition features new clinical cases from The Coakley Collection, new questions from The Deacon's Challenge of Biochemical Calculations Collection, plus new content throughout the text to ensure you stay ahead of all the latest techniques, instrumentation, and technologies. Condensed version of the clinical chemistry bible offers the same authoritative and well-presented content in a much more focused and streamlined manner. Coverage of analytical techniques and instrumentation includes optical techniques, electrochemistry, electrophoresis, chromatography, mass spectrometry, enzymology, immunochemical techniques, microchips, automation, and point of care testing. Updated chapters on molecular diagnostics cover the principles of molecular biology, nucleic acid techniques and applications, and genomes and nucleic acid alterations, reflecting the changes in this rapidly evolving field. Learning objectives, key words, and review questions are included in each chapter to support learning. More than 500 illustrations plus easy-to-read tables help readers better understand and remember key concepts

This document provides definitions of analytical intervals, planning of quality control procedures, and guidance for quality control applications.

This eBook is a collection of poster abstracts presented at the AACC 2015 Annual Meeting. As the leading event for laboratory medicine worldwide, the AACC Annual Meeting & Clinical Lab Expo is the place where breakthrough innovations in clinical testing and patient care are introduced to the healthcare world.

A condensed, easier-to-understand student version of the acclaimed Tietz Textbook of Clinical Chemistry and Molecular

Diagnostics, Tietz Fundamentals of Clinical Chemistry and Molecular Diagnostics, 7th Edition uses a laboratory perspective in providing the clinical chemistry fundamentals you need to work in a real-world, clinical lab. Coverage ranges from laboratory principles to analytical techniques and instrumentation, analytes, pathophysiology, and more. New content keeps you current with the latest developments in molecular diagnostics. From highly respected clinical chemistry experts Carl Burtis and David Bruns, this textbook shows how to select and perform diagnostic lab tests, and accurately evaluate results. Authoritative, respected author team consists of two well-known experts in the clinical chemistry world. Coverage of analytical techniques and instrumentation includes optical techniques, electrochemistry, electrophoresis, chromatography, mass spectrometry, enzymology, immunochemical techniques, microchips, automation, and point of care testing. Learning objectives begin each chapter, providing measurable outcomes to achieve after completing the material. Key words are listed and defined at the beginning of each chapter, and bolded in the text. A glossary at the end of the book makes it quick and easy to look up definitions of key terms. More than 500 illustrations plus easy-to-read tables help you understand and remember key concepts. New chapters on molecular diagnostics include the principles of molecular biology, nucleic acid techniques and applications, and genomes and nucleic acid alterations, reflecting the changes in this rapidly evolving field. New content on clinical evaluation of methods, kidney function tests, and diabetes is added to this edition. NEW multiple-choice review questions at the end of each chapter allow you to measure your comprehension of the material. NEW case studies on the Evolve companion website use real-life scenarios to reinforce concepts.

Interpretation of Equine Laboratory Diagnostics offers a comprehensive approach to equine laboratory diagnostics, including hematology, clinical chemistry, serology, body fluid analysis, microbiology, clinical parasitology, endocrinology, immunology, and molecular diagnostics. Offers a practical resource for the accurate interpretation of laboratory results, with examples showing real-world applications Covers hematology, clinical chemistry, serology, body fluid analysis, microbiology, clinical parasitology, endocrinology, immunology, and molecular diagnostics Introduces the underlying principles of laboratory diagnostics Provides clinically oriented guidance on performing and interpreting laboratory tests Presents a complete reference to establish and new diagnostic procedures Offers a practical resource for the accurate interpretation of laboratory results, with examples showing real-world applications Covers hematology, clinical chemistry, serology, body fluid analysis, microbiology, clinical parasitology, endocrinology, immunology, and molecular diagnostics Introduces the underlying principles of laboratory diagnostics Provides clinically oriented guidance on performing and interpreting laboratory tests Presents a complete reference to established and new diagnostic procedures

" As with other volumes in the Diagnostic Standards of Care series, Clinical Chemistry focuses specifically on understanding potential problems and sources of error in management of the clinical chemistry testing procedures, how to anticipate and avoid such problems, and how to manage them if they occur. The discussions are concise, practical, specific, and problem-based so the book directly addresses the situations and issues faced by the clinical pathologist or other manager or staff member of the chemistry team. Discussion of each problem is augmented by a case discussion giving a real-world example of how the issue can occur and how it can be effectively dealt with by the manager. The goal is to support the pathologist, manager or technologist in providing the highest possible quality of care and effective, timely consultation to the clinical staff. Clinical Chemistry: Diagnostic Standards of Care features: Comprehensive coverage of key issues in achieving quality in all areas of clinical chemistry Includes chapters dedicated to point of care testing, pediatric testing, laboratory information systems and EHR integration, and outreach testing Numerous case examples and discussions give real-world illustrations of how problems occur and how to avoid them Coverage includes perspectives from the lab manager's and administrator's view An emphasis on identifying established, evidence-based standards in clinical chemistry Examples of errors which compromise patient safety across all major areas of clinical chemistry Pocket-sized for portability "

This book is an essential guide for all practitioners. The emphasis throughout is on the practice of nuclear medicine. Primarily aimed at the radiologist, physician, physicist or technologist starting in nuclear medicine, it will also appeal to more experienced practitioners who are keen to stay up-to-date. The practical approach with tables as "recipes" for acquisition protocols means it is essential for any departmental shelf. 3rd edition expanded - now covering areas of development in nuclear medicine, such as PET and other methods of tumour imaging, data processing. All illustrations are up-to-date to reflect current standards of image quality. The 2015 Master Medicare Guide is a one-volume desk reference packed with timely and useful information for providers, attorneys, accountants, and consultants who need to stay on top of one of the most complex programs maintained by the federal government.

The underlying technology and the range of test parameters available are evolving rapidly. The primary advantage of POCT is the convenience of performing the test close to the patient and the speed at which test results can be obtained, compared to sending a sample to a laboratory and waiting for results to be returned. Thus, a series of clinical applications are possible that can shorten the time for clinical decision-making about additional testing or therapy, as delays are no longer caused by preparation of clinical samples, transport, and central laboratory analysis. Tests in a POC format can now be found for many medical disciplines including endocrinology/diabetes, cardiology, nephrology, critical care, fertility, hematology/coagulation, infectious disease and microbiology, and general health screening. Point-of-care testing (POCT) enables health care personnel to perform clinical laboratory testing near the patient. The idea of conventional and POCT laboratory services presiding within a hospital seems contradictory; yet, they are, in fact, complementary: together POCT and central laboratory are important for the optimal functioning of diagnostic processes. They complement each other, provided that a dedicated POCT coordination integrates the quality assurance of POCT into the overall quality management system of the central laboratory. The motivation of the third edition of the POCT book from Lippa/Junker, which is now also available in English, is to explore and describe clinically relevant analytical techniques, organizational concepts for application and future perspectives of POCT. From descriptions of the opportunities that POCT can provide to the limitations that clinician's must be cautioned about, this book provides an overview of the many aspects that challenge those who choose to implement POCT. Technologies, clinical applications, networking issues and quality regulations are described as well as a survey of future technologies that are on the future horizon. The editors have spent considerable efforts to update the book in general and to highlight the latest developments, e.g., novel POCT applications of nucleic acid testing for the rapid identification of infectious agents. Of particular note is also that a cross-country comparison of POCT quality rules is being described by a team of international experts in this field.

Coagulation testing is the basis for the diagnosis of bleeding and thrombotic disorders, as well as the mainstay of anticoagulant

monitoring and management. This handbook provides practical information and guidance on topics relevant to directing a coagulation laboratory, filling a void in the literature. Since the first edition, all chapters have been updated and an entirely new chapter is included on pharmacogenomics and pharmacogenetics. The book will aid pathologists, clinical laboratory scientists and other physicians serving as laboratory directors to understand and carry out their responsibilities. It will also assist residents and fellows in learning the basics of coagulation testing and serve as a useful day-to-day reference for coagulation laboratory supervisors, technologists, and technicians. Finally, clinicians may find aspects of the book helpful in understanding the role of the coagulation laboratory in patient evaluation and monitoring.

Emergency medicine attendings who wish to hone their teaching skills can find a number of books on educational strategies written by physicians from other disciplines. However, until the publication of the first edition of this book, they did not have access to a text written by emergency medicine physicians on methods of teaching that are directly applicable to teaching EM. This book was compiled to meet that need. Following the introductory section, which provides important background information, the book's contents are organized into 4 sections that correspond to the core needs and interests of EM educators: Section 2 focuses on practical and ethical considerations of teaching in the ED; Section 3 provides strategies for teaching specific groups of learners; Section 4 looks at the skills that are characteristic of the best EM educators; and Section 5 looks in depth at specific teaching techniques and strategies. Now more than ever this book addresses the needs of physician educators from all over the world. New chapters discuss lecturing to an international audience; using simulation as a teaching tool; how to make journal club work for you, and other topics that are of broad interest to medical educators in this field. In general, each chapter has been updated and reviewed to make sure the content was something that emergency physician educators could use in any country. The chapter contributors are widely regarded as leaders in the field of emergency medicine education and faculty development. Authors were given free rein to develop their chapters and write in their own style. They were asked to present their personal views on how to successfully teach the art of emergency medicine, rather than review evidence-based guidelines regarding medical education. As a result, most of the chapters have few references. This first-person approach to a multi-authored textbook yields a compilation that varies in style from chapter to chapter and exposes the reader to a variety of communication techniques.

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