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Manage a cost-effective lab and maintain quality patient care! Today's rapidly changing healthcare environment calls for strict, cost-effective lab management. Quality and appropriate testing are the keys to an efficient, successful operation. In this important resource, a variety of healthcare professionals consider the topics which are essential to the successful management of any size lab team. Coverage includes quality control; appropriate testing; effective communication and accuracy; computers today and in the lab of the future; point of care testing; and robotics. Readers will find useful guidance for making decisions in their own unique environments This practical guide offers information on how to design and create a flexible and cost effective Laboratory Information Management (LIM) system. Examples are used to explain how to decide what data to archive, and the implementation of a custom built database system is also covered. 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. At the request of the Deputy Under Secretary of Defense for Research and Engineering (Research and Advanced Technology), a task group of senior research and development executives examined barriers to effective performance of in-house laboratories. This effort was in part motivated by: Perception of conflicting controls on laboratories, informally transmitted to ODUSDRE at the Gaithersburg Laboratory Directors meeting and by personal correspondence, and Congressional interest in recent years but particularly during the FY 79 HASC hearings. The task group verified that there are a variety of controls on laboratory operations, common to the three Services, which when taken collectively, seriously limit the effective use of laboratory resources. The individual controls, based on the legitimate exercise of authority, are motivated by the need to limit costs. It is the observation of this task group that the laboratories are being seriously affected by a collection of controls which limit their capability to exercise substantive and effective management in meeting mission requirements and exploiting technological opportunities. Modifying individual controls as a solution to this situation disguises the adverse effect that the individual controls collectively produce. Consequently,

the task group believes that the problem should be approached from a fundamental point of view, aimed at accomplishing the objectives of the controls while simultaneously improving effective laboratory management. This 130+ page study is based on data from more than 20 major biological or medical laboratories connected to major universities, private pharmaceutical or biotech firms and other organizations that conduct advanced biological or medical research. The study looks closely at how key lab procedures are handled, in-house or outsourced, for gene sequencing, laboratory animal management, DNA preparation and pathological analysis. The study gives detailed data on budgets, equipment spending, spending on lab animals, materials spending, overhead spending and other spending categories. It also looks at the outlook for lab funding, from the parent institution, and from internal and external grant sources. This exhaustive study also examines issues such as: centralized vs. localized purchasing, use of consortia, level of cooperation with the parent institution and other laboratories. It presents data on the ratio of scientists to lab technicians and other support personnel, and discusses the degree to which scientists or administrators control lab hiring. Other issues discussed in detail include: personnel training, equipment installation, billing and invoicing, number and quality of meetings of lab personnel, use of and funds for laboratory management systems and other software and hardware, trends in experiment documentation, policies on environmental and personal safety, and much more of interest to individuals that work in, oversee or provide critical products or services to medical or biological research laboratories in academia, industry and elsewhere. Prudent Practices in the Laboratory-the book that has served for decades as the standard for chemical laboratory safety practice-now features updates and new topics. This revised edition has an expanded chapter on chemical management and delves into new areas, such as nanotechnology, laboratory security, and emergency planning. Developed by experts from academia and industry, with specialties in such areas as chemical sciences, pollution prevention, and laboratory safety, Prudent Practices in the Laboratory provides guidance on planning procedures for the handling, storage, and disposal of chemicals. The book offers prudent practices designed to promote safety and includes practical information on assessing hazards, managing chemicals, disposing of wastes, and more. Prudent Practices in the Laboratory will continue to serve as the leading source of chemical safety guidelines for people working with laboratory chemicals: research chemists, technicians, safety officers, educators, and students. A changing world economic and regulatory environment plus demographic changes in the laboratory workforce calls for

improved laboratory management methods. This book discusses the topics surrounding these issues. "Lab Dynamics is a book about the challenges to doing science and dealing with the individuals involved, including oneself. The authors, a scientist and a psychotherapist, draw on principles of group and behavioral psychology but speak to scientists in their own language about their own experiences. They offer in-depth, practical advice, real-life examples, and exercises tailored to scientific and technical workplaces on topics as diverse as conflict resolution, negotiation, dealing with supervision, working with competing peers, and making the transition from academia to industry." "This is a uniquely valuable contribution to the scientific literature, on a subject of direct importance to lab heads, postdocs, and students. It is also required reading for senior staff concerned about improving efficiency and effectiveness in academic and industrial research."--BOOK JACKET This book is intended to help young and novice scientists by providing them with advice on how to overcome adversities. This advice comes in the form of numerous examples from the author's career but also from the careers of many other scientists. It follows the thinking process of Ramon Y Cajal and his famous book, "Advice for a Young Investigator." It covers a variety of topics and areas that are fundamental in becoming a successful scientist. It presents chapters on all essential areas of the scientific life that appeal to a wide range of audiences, from the senior undergraduate student to the university administrator to the chief scientist in the industry. Some figures in the eBook are in color. Features Contains practical advice and many hints on a variety of topics; from how to write a grant to how to effectively manage your time Displays many examples of success and failure from other scientists that can teach valuable lessons Provides many personal stories and anecdotes in a form of sincere confessions Includes PowerPoint Presentation slides for each chapter for any academicians that want to develop such a class in their institutions Crime Laboratory Management is the first book to address the unique operational, administrative, and political issues involved in managing a forensic laboratory. It guides managers and supervisors through essential tasks ranging from hiring and training of staff to quality control, facilities management, and public relations. Author Jami St. Clair has more than 20 years experience in forensic science and served as President of the American Society of Crime Lab Directors in 1998-1999. She and her colleagues have designed this book to be useful for supervisors at every level. With its combination of classic management theories and practical information, this unique resource will help managers ensure that their laboratories operate efficiently and survive the intense scrutiny of today's criminal justice system. It will also help students and

*professional with an interest in forensic science and crime laboratory operation to better understand the functions of labs and the critical role they play in handling and analyzing evidence. * Shows how to handle a wide variety of administrative and operational issues in forensic laboratories * Provides new and experienced managers with practical information from qualified experts * Outlines standards and procedures to help ensure quality results from laboratory analyses The purpose of this book is to demystify the requirements delineated within ISO/IEC 17025:2005 while providing a road map for organizations that wish to receive/maintain accreditation for their laboratories. AS9100, ISO 9001, and ISO 13485 are standards that support the development and implementation of effective approaches to quality management and are recognized blueprints for the establishment of a quality management system (QMS) for diverse industries. Although similar to these recognized QMS standards, ISO/IEC 17025 serves a unique purpose: laboratory accreditation. It is not unusual for laboratories to retain dual certification to ISO 9001 and ISO/IEC 17025. Since most research activities involve laboratory work, there is need for efficient management of laboratory or test facilities to ensure quality-controlled research and cost-effective use of resources. It is obvious that good laboratory and research management skills are necessary for scientists and scholars involved directly or indirectly in industrial, clinical, or bioscience research and/or charged with management of laboratory facilities. The essence of this write-up is therefore to enhance good laboratory management practices that ensure stressless compliance with legal and regulatory frameworks for health and safety. The aim is to promote scientific excellence by highlighting the conditions and skills necessary for efficient and innovative management of laboratory facilities while enhancing consciousness and efficacy in cost-effective research management. The issues addressed in the book include a proposal of the administrative setup of a laboratory or test facility, laboratory design considerations, which obviously have a significant impact on the quality of results generated. The principles of good laboratory practices and the importance of biosafety and biosecurity are specially addressed. The author also reiterates the importance of a procurement strategy for each laboratory or test facility, whose aim should be to set out a planned approach for cost-effective purchasing of required goods and services, taking into account several factors such as the timeline for procurement, the funding and budget and the projected risks and opportunities. Here, the need for a defined and documented policy and procedures for selection and use of purchased external goods and services in addition to an inventory control system for laboratory supplies is highlighted. Laboratory operators need to have an overview of*

different categories and types of laboratory equipment at their disposal with good knowledge of their safe handling, operation, and maintenance following well-set schedules. Besides this concern, the book also dwells on laboratory information management system (LIMS), which is an important and integral part of laboratory operations relevant for efficient laboratory management. A whole chapter is consecrated to quality control (QC), quality assurance (QA) and total quality management (TQM) as the three major elements of quality, which effectively sets the stage for laboratory accreditation, which demonstrates legitimacy and credibility of research results. In fact, laboratory accreditation is the process by which an independent and authorized agency certifies the quality system and competence of a laboratory on the basis of certain predefined standards. It is the formal recognition, authorization, and registration of a laboratory that has demonstrated its capability, competence and credibility to carry out the tasks it is claiming to be able to do. In this book, the reader will discover the whole process of laboratory accreditation with the various agencies involved as well as the benefits of laboratory accreditation. The book closes up with ethical issues in research management. It is obvious that the consideration of ethics in research should enhance mature decision-making in harmony with changing technology. The chapter on this issue points out the fact that efficient research and laboratory management must be based on ethical principles that guarantee all stakeholders access to the benefits of new technologies with increased understanding of biological systems and responsible use of technology. Some basic guidelines are given at the end on how to implement knowledge gained from the book to efficiently run a modern laboratory or research facility. This resource provides laboratory managers and practitioners with detailed information on achieving cost-effective utilization of laboratory resources and enhancing diagnostic and therapeutic decision-making. Clinical chapters are organized by body system for ease of reference. Each disorder is discussed in terms of etiology, pathophysiology, clinical manifestations/syndrome, diagnostic testing strategies, and treatment with effects on laboratory results. "Success stories" and case studies illustrate each chapter's content. Abundant flow charts, tables, and algorithms clarify tests' selection, use, interpretation, and value. No other book on the market addresses these issues from the standpoint of the laboratorian. Introductory chapters address rationales and practical implementation strategies for improved clinical laboratory resource utilisation, as well as the skills needed to develop and apply a consultationapproach to laboratory management. Success stories illustrate ways in which laboratory manages have implemented cost effective laboratory resource utilisation programs and provide examples of the

extraordinary cost savings and physician/laboratory collaboration that occur. Clinical chapters are organised by body system for ease of reference. The structure of these chapters parallels a physicians approach to medical problem-solvinghelping clinical laboratory personnel to better understand and meet physicians needs. Each disorder is discussed in terms of aetiology, pathophysiology, clinical manifestations/syndromes, diagnostic testing strategies, and appropriate treatment and their effects on lab results and further test choice. Abundant flow charts, tables, and algorithms clarify various tests selection, use, interpretation, and value. Case studies demonstrate the application of each chapters content within the context of realistic situations. In this book, a successor to her best-selling manual for new recruits to experimental science, At The Bench,Kathy Barker provides a guide for newly appointed leaders of research teams, and those who aspire to that role. HR Management in the Forensic Science Laboratory: A 21st Century Approach to Effective Crime Lab Leadership introduces the profession of forensic science to human resource management, and vice versa. The book includes principles of HR management that apply most readily, and most critically, to the practice of forensic science, such as laboratory operations, staffing and assignments, laboratory relations and high impact leadership. A companion website hosts workshop PowerPoint slides, a forensic HR newsletter and other important HR strategies to assist the reader. Provides principles of HR management that readily apply to the practice of forensic science Covers and emphasizes the knowledge necessary to make HR management in the forensic science laboratory effective, such as technical standards and practices, laboratory structures and work units, and quality system management Includes an online website that hosts workshop PowerPoint slides, a forensic HR newsletter and other important HR strategies New technologies, including DNA and digital databases that can compare known and questioned exemplars, have transformed forensic science and greatly impacted the investigative process. They have also made the work more complicated. Obtaining proper resources to provide quality and timely forensic services is frequently a challenge for forensic managers, who are often promoted from casework duties and must now learn a whole new set of leadership skills. The interdisciplinary and scientific nature of laboratories requires strong leadership ability to manage complex issues, often in adversarial settings. Forensic Laboratory Management: Applying Business Principles provides laboratory managers with business tools that apply the best science to the best evidence in a manner that increases the efficiency and effectiveness of their management decision making. The authors present a performance model with seven

recommendations to implement, illustrating how forensic managers can serve as leaders and strategically improve the operation and management in scientific laboratories. Topics include: Key business metrics and cost–benefit analyses Ethical lapses: why they occur, possible motives, and how problems can be prevented Forensic training, education, and institutes ISO/IEC 17025 accreditation implementation The book includes case studies simulating a working laboratory in which readers can apply business tools with actual data reinforcing discussion concepts. Each chapter also includes a brief review of current literature of the best management theories and practice. The downloadable resources supply two mock trial transcripts and associated case files along with PowerPoint® slides from Dr. George Carmody's workshop on Forensic DNA Statistics and Dr. Doug Lucas's presentation on ethics. Health Care Administration: Managing Organized Delivery Systems, Fifth Edition provides graduate and pre-professional students with a comprehensive, detailed overview of the numerous facets of the modern healthcare system, focusing on functions and operations at both the corporate and hospital level. The Fifth Edition of this authoritative text comprises several new subjects, including new chapters on patient safety and ambulatory care center design and planning. Other updated topics include healthcare information systems, management of nursing systems, labor and employment law, and financial management, as well discussions on current healthcare policy in the United States. Health Care Administration: Managing Organized Delivery Systems, Fifth Edition continues to be one of the most effective teaching texts in the field, addressing operational, technical and organizational matters along with the day-to-day responsibilities of hospital administrators. Broad in scope, this essential text has now evolved to offer the most up-to-date, comprehensive treatment of the organizational functions of today's complex and ever-changing healthcare delivery system. Take your lab into the 21st century with this insightful and exciting new resource Digital Transformation of the Laboratory: A Practical Guide to the Connected Lab delivers essential and transformative new insights into current and future technologies and strategies for the digitization of laboratories. Thoroughly supported and backed-up with contributions from thought and industry leaders, the book shows scientists in academia and industry how to move from paper to digital in their own labs. The distinguished editors have included resources from industry-leading voices in their respective fields that offer concrete and practical strategies to embrace modern, digital technology. You'll learn to modernize your laboratory, cut costs, improve productivity, and find efficiencies you never considered. You'll discover a stepwise approach to move from paper to digital tech, including

guidance on how to understand and define your lab's requirements and evaluate potential solutions. Real-world case studies are included throughout the book to provide specific examples of how the ideas presented in the book can be applied in real life. You'll also benefit from the inclusion of: A thorough introduction to the evolution of the modern laboratory, including new available technologies and the new science being conducted with it An exploration of crucial terms you'll need to understand in order to chart your path into the future of the laboratory Examinations of practical issues you'll need to master in order to define your lab's digitalization strategy Numerous case studies and expert commentary on the subject of moving from paper to digital Perfect for senior executives, lab managers, senior scientists, principal investigators, professors and PhDs working in the field of biotechnology, pharma, chemistry, healthcare, life science, Digital Transformation of the Laboratory: A Practical Guide to the Connected Lab will also earn a place in the libraries of laboratory heads and auditing departments seeking to find efficiencies, cut costs, and maximize productivity in their own labs. This thoroughly updated Second Edition of Clinical Laboratory Medicine provides the most complete, current, and clinically oriented information in the field. The text features over 70 chapters--seven new to this edition, including medical laboratory ethics, point-of-care testing, bone marrow transplantation, and specimen testing--providing comprehensive coverage of contemporary laboratory medicine. Sections on molecular diagnostics, cytogenetics, and laboratory management plus the emphasis on interpretation and clinical significance of laboratory tests (why a test or series of tests is being done and what the results mean for the patient) make this a valuable resource for practicing pathologists, residents, fellows, and laboratorians. Includes over 800 illustrations, 353 in full color and 270 new to this edition. Includes a Self-Assessment and Review book. 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. Basic Laboratory Information System (BLIS) is a joint initiative of C4G @ Georgia

Tech, the Centers for Disease Control and Prevention (CDC) and Ministries of Health in several countries in Africa. The vast majority of health laboratories in Africa, engaged in routinely testing samples drawn from patients (for HIV, malaria etc.), have been using non-standardized paper logs and manual entries for keeping track of patients, test samples and results. Besides the obvious burden of tedious record-keeping, these methods increase the chances of errors due to transcription and mismatches, making it difficult to track patient history or view critical population-wide data. In 2008, PEPFAR (the United States President's Emergency Plan for AIDS Relief) together with the CDC was reauthorized with a $ 48 billion budget over five years to combat HIV/AIDS, tuberculosis, and malaria. The focus of PEPFAR has shifted from rapid scale-up to the quality and reliability of the clinical health programs and having an effective laboratory management system is one of its goals. C4G BLIS is a robust, customizable and easy-to-use system that keeps track of patients, samples, results, lab workflow and reports. It is meant to be an effective and sustainable enhancement to manual logs and paper-based approaches. The system is designed to work in resource-constrained laboratories with limited IT equipment and across sites with good, intermittent or no internet availability. With varied practices, workflow and terminology being followed across laboratories in various African countries, the system has been developed to enable each laboratory or country to customize and configure the system in a way that suits them best. We describe various aspects of BLIS including its flexible database schema design, configurable reports and language settings, end-user customizability and development model for rapid incorporation of user feedback. Through BLIS, we aim to demonstrate a sustainable ICT solution brought about by the early and constant involvement of the target laboratory staff and technicians, identifying their short- and long-term needs, and ensuring that the system can match these needs. We will present preliminary evaluation results from laboratories in Cameroon, Ghana, Tanzania and Uganda. Achieving, maintaining and improving accuracy, timeliness and reliability are major challenges for health laboratories. Countries worldwide committed themselves to build national capacities for the detection of, and response to, public health events of international concern when they decided to engage in the International Health Regulations implementation process. Only sound management of quality in health laboratories will enable countries to produce test results that the international community will trust in cases of international emergency. This handbook was developed through collaboration between the WHO Lyon Office for National Epidemic Preparedness and Response, the United States of America Centers for Disease Control and

Prevention (CDC) Division of Laboratory Systems, and the Clinical and Laboratory Standards Institute (CLSI). It is based on training sessions and modules provided by the CDC and WHO in more than 25 countries, and on guidelines for implementation of ISO 15189 in diagnostic laboratories, developed by CLSI. This handbook is intended to provide a comprehensive reference on Laboratory Quality Management System for all stakeholders in health laboratory processes, from management, to administration, to bench-work laboratorians. This handbook covers topics that are essential for quality management of a public health or clinical laboratory. They are based on both ISO 15189 and CLSI GP26-A3 documents. Each topic is discussed in a separate chapter. The chapters follow the framework developed by CLSI and are organized as the "12 Quality System Essentials". The laboratory environment is ever changing in response to the diverging trends in healthcare. Laboratory managers who can create solutions to today's problems and effectively manage change are in high demand. The second edition of Denise Harmening's Laboratory Management is designed to give a problem-based approach to teaching the principles of laboratory management. the text focuses on presenting underlying managerial concepts and assisting the learner in successfully applying theoretical models to real-life situations. Both the 17025:1999 standard and especially ANSI/ISO/ASQ,9001-2000standard require that a laboratory document its procedures forobtaining reliable results. The Laboratory Quality Assurance Manualdetails to the user how to a prepare a new laboratory qualityassurance manual, which will be appropriate to use as a proceduresmanual for a particular laboratory, a sales tool to attractpotential customers, a document that can be to answer regulatoryquestions, and ultimately a tool to become a registered ISO9001/2000 Lab and gain related certifications based on thestandard. The Laboratory Quality Assurance Manual: -Incoporates changes to ANSI/ISO/ASQ 9001-2000 pertaining tolaboratories. -Provides blank forms used in preparing a quality manual. -Provides information on the interrelationship of ANSI/ISO17025:1999 and ANSI/ISO/ASQ 9001-2000. A clear and concise manual on how to run a quality control testing laboratory efficiently and in compliance. Hundreds of tips and techniques help the reader focus on the essential elements of good laboratory management. This book includes thirty-nine useful SOPs that have evolved from the author's years of practical experience. Fifteen case studies describe typical laboratory problems and offer solutions to them. From how to train analysts, to how to lay out the laboratory, to how to assure that samples are processed in a systematic manner, Managing the Analytical Laboratory: Plain and Simple covers it all. Features Over the past twenty years, laboratories have evolved

from isolated, purely technical departments into integral segments of broader provider systems. Excelling in this new environment requires business knowledge, management skills, and marketing savvy in addition to the age-old prerequisites of clinical competence and technical expertise. This new book imparts these skills and much more. Addressing both emerging needs in the curriculum and the new demands upon practitioners, the text concentrates on critical issues of lab management including strategic thinking and planning, maximizing reimbursement, practical financial issues, compliance with governmental regulations, optimizing productivity and much more. Technological advances have revolutionized the way we manage information in our daily workflow. The medical field has especially benefitted from these advancements, improving patient treatment, health data storage, and the management of laboratory samples and results. Laboratory Management Information Systems: Current Requirements and Future Perspectives responds to the issue of administering appropriate regulations in a medical laboratory environment in the era of telemedicine, electronic health records, and other e-health services. Exploring concepts such as the implementation of ISO 15189:2012 policies and the effects of e-health application, this book is an integral reference source for researchers, academicians, students of health care programs, health professionals, and laboratory personnel. The need to professionally and successfully conduct computer forensic investigations of incidents and crimes has never been greater. This has caused an increased requirement for information about the creation and management of computer forensic laboratories and the investigations themselves. This includes a great need for information on how to cost-effectively establish and manage a computer forensics laboratory. This book meets that need: a clearly written, non-technical book on the topic of computer forensics with emphasis on the establishment and management of a computer forensics laboratory and its subsequent support to successfully conducting computer-related crime investigations. Provides guidance on creating and managing a computer forensics lab Covers the regulatory and legislative environment in the US and Europe Meets the needs of IT professionals and law enforcement as well as consultants HR Management in the Forensic Science Laboratory: A 21st Century Approach to Effective Crime Lab Leadership introduces the profession of forensic science to human resource management, and vice versa. The book includes principles of HR management that apply most readily, and most critically, to the practice of forensic science, such as laboratory operations, staffing and assignments, laboratory relations and high impact leadership. A companion website hosts workshop PowerPoint slides, a forensic HR newsletter

and other important HR strategies to assist the reader. Provides principles of HR management that readily apply to the practice of forensic science Covers and emphasizes the knowledge necessary to make HR management in the forensic science laboratory effective, such as technical standards and practices, laboratory structures and work units, and quality system management Includes an online website that hosts workshop PowerPoint slides, a forensic HR newsletter and other important HR strategies The focus of this book is to demystify the requirements delineated within ISO/IEC 17025:2017, while providing a road map for organizations wishing to receive accreditation for their laboratories. AS9100, ISO 9001:2015, and ISO 13485:2016 are standards that have been created to support the development and implementation of effective approaches to quality management, and are recognized blueprints for the establishment of a quality management system (QMS) for many diverse industries. Similar to these recognized QMS standards, ISO/IEC 17025:2017 for laboratory accreditation serves a unique purpose. It is not unusual for laboratories to retain dual certification in ISO 9001:2015 and ISO/IEC 17025:2017. However, ISO/IEC 17025:2017 contains requirements specific to the laboratory environment that are not addressed by ISO 9001:2015. This book highlights those differences between ISO 9001:2015 and ISO/IEC 17025:2017, while providing practical insight and tools needed for laboratories wishing to achieve or sustain accreditation to ISO/IEC 17025:2017. For those currently or formerly accredited to the 2005 version of ISO/IEC 17025, an appendix outlines the changes between the 2005 and 2017 versions of the standard. For more than 100 years, Henry's Clinical Diagnosis and Management by Laboratory Methods has been recognized as the premier text in clinical laboratory medicine, widely used by both clinical pathologists and laboratory technicians. Leading experts in each testing discipline clearly explain procedures and how they are used both to formulate clinical diagnoses and to plan patient medical care and long-term management. Employing a multidisciplinary approach, it provides cutting-edge coverage of automation, informatics, molecular diagnostics, proteomics, laboratory management, and quality control, emphasizing new testing methodologies throughout. Remains the most comprehensive and authoritative text on every aspect of the clinical laboratory and the scientific foundation and clinical application of today's complete range of laboratory tests. Updates include current hot topics and advances in clinical laboratory practices, including new and extended applications to diagnosis and management. New content covers next generation mass spectroscopy (MS), coagulation testing, next generation sequencing (NGS), transfusion medicine, genetics and cell-free DNA,

therapeutic antibodies targeted to tumors, and new regulations such as ICD-10 coding for billing and reimbursement. Emphasizes the clinical interpretation of laboratory data to assist the clinician in patient management. Organizes chapters by organ system for quick access, and highlights information with full-color illustrations, tables, and diagrams. Provides guidance on error detection, correction, and prevention, as well as cost-effective test selection. Includes a chapter on Toxicology and Therapeutic Drug Monitoring that discusses the necessity of testing for therapeutic drugs that are more frequently being abused by users.

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