Antimicrobial Stewardship Programs in Inpatient Settings

Antimicrobial Stewardship is intended to provide a summary of the evidence on inpatient antimicrobial stewardship programs to guide clinical practice and policy within the Veterans Healthcare System.

Antimicrobial resistance (AMR) challenges the treatment of clinical infections. Despite the decline in infectious diseases mortality rates, infections are more difficult to eliminate or contain in the host, resulting in poorer outcomes to treatment, longer hospital inpatient stays, and increased mortality. Written by international experts in the field and supported by the review of the available evidence, including example case studies, Antimicrobial Stewardship provides a practical how-to guide on this growing area. Divided into three sections, the first sets the scene, looking at the key problems of antimicrobial resistance. Section two examines and outlines the evidence to support, or laboratory testing. The topic was nominated by Matthew Goetz, MD, Chief, Infectious Diseases, VA Greater Los Angeles Healthcare System, on behalf of the VA Antimicrobial Stewardship Task Force, and is intended to provide a summary of the evidence on inpatient antimicrobial stewardship programs to guide clinical practice and policy within the Veterans Healthcare System.

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Antimicrobial Stewardship will be a valuable and practical resource for infection trainees, as well as specialists from the medical, pharmacy, and nursing professions.

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We are honored to present the second edition of Surgical Intensive Care Medicine. Our first edition was considered to be an important contribution to the critical care literature and received excellent reviews from Critical Care Medicine, Chest, and Anesthesiology. In the second edition, the basic organization of the book remains unchanged, being composed of 60 carefully selected chapters divided into 11 sections. The book begins with general topics in primary intensive care, such as airway management and vascular cannulation, followed by cases based on medical and surgical subspecialties. While the chapters discuss definitions, pathophysiology, clinical course, complications, and prognosis, the primary emphasis is devoted to patient management. The contents of the current edition have been comprehensively upgraded and the chapters retained from the first edition have been thoroughly updated, revised, or rewritten. In this second edition, some new topics have been added including Postoperative Care of the Obese Patient, Postoperative Care of the Pancreas Transplant Patient, Optimization of High-Risk Surgical Patients, Post-erative Alcohol Withdrawal Syndrome, Ethics and End of Life Issues, Improving the ICU, and Continuous Medical Education in Intensive Care Medicine. We are extremely fortunate to have high-quality contributors, many of whom are nationally and internationally recognized researchers, speakers, and practitioners in Critical Care Medicine. An important feature of this latest edition is the geographical diversity of its authors. Most are based in the United States, but colleagues from Canada, England, Ireland, Germany, Belgium, Holland, France, Italy, Portugal, and Australia have also made notable contributions.

**Principles and Practice of Pediatric Infectious Diseases E-Book**

For 50 years, antibiotics have been dispensed like sweets. This must not be allowed to continue. This unique book assembles contributions from experts around the world concerned with responsible use of antibiotics and the consequences of overuse. For the first time, it provides up to the minute texts on both the theoretical aspects of antibiotic stewardship and the practical aspects of its implementation, with consideration of the key differences between developed and developing countries. All concerned with teaching, practice and administration of clinical medicine, surgery, pharmacy, public health, clinical pharmacology, microbiology, infectious diseases and clinical therapeutics will find Antibiotic Policies: Theory and Practice essential reading. Antibiotic use and resistance is not just the responsibility of specialists in the field but the responsibility of all doctors, pharmacists, nurses, healthcare administrators, patients and the general public.

**The Sanford Guide to Antimicrobial Therapy 2019**


**Infection Control in Clinical Practice Updated Edition E-Book**

With advances in technology and medical science, children with previously untreatable and often fatal conditions, such as congenital heart disease, extreme prematurity and pediatric malignancy, are living longer. While this is a tremendous achievement, pediatric providers are now more commonly facing challenges in these medical complex children both as a consequence of their underlying disease and the delivery of medical care. The term healthcare-associated infections (HAIs) encompass both infections that occur in the hospital and those that occur as a consequence of healthcare exposure and medical complexity in the outpatient setting. HAIs are associated with substantial morbidity and mortality for the individual patient as well as seriously taxing the healthcare system as a whole. In studies from the early 2000s, over 11% of all children in pediatric intensive care units develop HAIs and this figure increases substantially if neonatal intensive care units are considered. While progress has been made in decreasing the rates of HAI in the hospital, these infections remain a major burden on the medical system. In a study published in 2013, the annual estimated costs of the five most common HAIs in the United States totaled $9.8 billion. An estimated 648,000 patients developed HAIs in hospitals within the US in 2011 and children with healthcare-associated bloodstream infection have a greater than three-fold increased risk of death. While a number of texts discuss HAIs in the broader context of infectious diseases or pediatric infectious diseases (such as Mandell’s Principles and Practice of Infectious Diseases or Long and Pickering’s Principles and Practice of Pediatric Infectious Diseases) no single text specifically focuses on the epidemiology, diagnosis and management of HAI in children. Many infectious diseases texts are organized based on the microbiology of infection and from this starting point then discussing the clinical syndromes associated with the organism of interest. For instance, a chapter on Staphylococcus aureus may contain a brief discussion of the role of S. aureus in surgical site infections in the wider context of all staphylococcal disease. For clinicians caring for children at the bedside, however, the clinical syndrome is typically appreciated and intervention necessary prior to organism identification. We propose a text that details both the general principles involved in HAIs and infection prevention but also provides a problem oriented approach. Such a text would be of interest to intensivists, neonatologists, hospitalists, oncologists, infection preventionsists and infectious diseases specialists. The proposed text will be divided into three principle sections: 1) Basic Principles of Infection Control and Prevention, 2) Major Infectious Syndromes and 3) Infections in Vulnerable Hosts. Chapters in the Major Infectious Syndromes section will include discussion of the epidemiology, microbiology, clinical features, diagnosis, medical management (or surgical management as appropriate) and prevention of the disease entity of interest. Chapters will seek to be evidenced based as much as possible drawing from the published medical literature as well as from clinical practice guidelines (such as those of Infectious Diseases Society of America) when applicable. We intend to include tables, figures and algorithms as appropriate to assist clinicians in the evaluation and management of these often complex patients. Finally, we intend to invite authors to participate in this project from across a number of medical specialties including infectious diseases, infection control, critical care, oncology and surgery to provide a multidisciplinary understanding of disease. It is our intent to have many chapters be co-written by individuals in different subspecialties; for instance, a chapter on ventilator-associated pneumonia may be co-written by both infectious disease and critical care medicine specialists. Such a unique text has the potential to provide important guidance for clinicians caring for these often fragile children.

**Pediatric Infectious Disease**

Antimicrobial resistance (AMR) challenges the treatment of clinical infections. Despite the decline in infectious diseases mortality rates, infections are more difficult to eliminate or contain in the host, resulting in poorer outcomes to treatment, longer hospital inpatient stays, and increased mortality. Written by international experts in the field and supported by the review of the available evidence, including example case studies, Antimicrobial Stewardship provides a practical how-to guide on this growing area. Divided into three sections, the first sets the scene, looking at the key problems of antimicrobial resistance. Section two examines and identifies the key components of an antimicrobial stewardship program. Finally, the book explores specialist areas of antimicrobial stewardship ranging from antimicrobial pharmacokinetics and dynamics, to near patient testing, and infection biomarkers. Antimicrobial Stewardship will be a valuable and practical resource for infection trainees, as well as specialists from the medical, pharmacy, and nursing professions.

**Oxford Desk Reference Nephrology**

Pediatrics: A Competency-Based Companion, by Maureen C. McMahon, MD and Glenn R. Stryjewski, MD, MPH, is designed to teach you to think like an experienced clinician. The only text written in the framework of the Core Competencies developed by the ACGME, its case-based approach illustrates the thought processes that effective practitioners use to approach and evaluate common pediatric presentations. Learning is easy
through an intuitive, practical organization, concise, high-yield presentation on graphs, tables, and other at-a-glance features, such as ‘Professors’ Pearls’ that provide cases with questions and annotated answers and a framework that allows you to track your progress and that of your patients in relation to ACMGE and AAMC expectations. A convenient pocket-sized format enables you to review the material on the go, and online access via Student Consult includes online extras such as ‘Integration Links’ to bonus content in other Student Consult titles, a Competency Self-Assessment Log, Vertical Reads, and much more. Master ACMGE Core Competencies with the aid of a color-coded system that helps you to integrate evidence-based medicine, continual self-assessment, and cognizance of interpersonal skills into your daily routine. Access the high-yield core information you need for pediatric rotations in a portable, pocket-sized format that organizes the most common, must-know pediatric signs/symptoms and disorders by patient presentation. Learn to see the “big picture” with the aid of “Teaching Visuals” chapters and “Speaking Intelligently” and “Clinical Thinking” features in clinical chapters. Easily locate more in-depth information on any topic with references to Nelson Essentials of Pediatrics, 6th Edition. Access the complete contents online at www.studentconsult.com, along with “Integration Links” to bonus content in other Academic Summary titles. Competency Self-Assessment Log “Professors’ Pearls” that provide cases with questions and annotated answers, Vertical Read many other features to enhance learning and retention. Get help managing your career, time, and life outside the clinical setting via bonus online appendices.

Antibiotic and Chemotherapy E-Book

Comprehensive in scope, yet concise and easy to manage, Principles and Practice of Pediatric Infectious Diseases, 5th Edition, by Drs. Sarah Long, Charles Prober, and Marc Fischer, is your go-to resource for authoritative information on infectious diseases in children and adolescents. A veritable “who’s who” of global authorities provides the practical knowledge you need to understand, diagnose, and manage almost any pediatric infectious disease you may encounter. Features a consistent, easy-access format with high-yield information boxes, highlighted key points, and an abundance of detailed illustrations and at-a-glance tables. Allows quick look-up by clinical presentation, pathogen, or type of host. Includes coverage of the latest vaccine products, recommendations, and effectiveness as well as expanded diagnostics and therapies for autoinflammatory/periodic fever syndromes. Covers emerging viruses such as Zika, Ebola, and EV-D68 as well as infectious risks of immunomodulating drugs and expanding antimicrobial resistance patterns. Discusses expanding antimicrobial resistance patterns and new therapies for viral and fungal infections and resistant bacterial infections.

Drug Safety in Developing Countries

Delivers the critical information primary care providers need to be thoroughly informed prescribers. This unique resource—an evidence-based pharmacology text and reference for advance practice students and clinicians—guides users in analyzing the pharmacological foundations of drug therapy and users in the development of sound clinical judgment in the appropriate medication for every patient across the lifespan. Targeting the specific needs of APRN and PA students and clinicians, the text is a “bridge” between standard, lengthy pharmacology texts and quick pocket references that lack information regarding key pharmacotherapy principles. Featuring an applied therapeutic approach to major disorders and their pharmacologic treatment, the book examines how medications act on the body and visa versa, while teaching the rationale for using specific therapeutic agents or drug classes. Each chapter includes case studies that apply the concepts discussed, relevant diagnostic studies, applicable guidelines, genomics, and important lifespan considerations. Of special interest is a chapter on pharmacogeography explaining the basic principles underlying our current understanding of genetic variations in response to pharmacotherapy and adverse drug reactions. Easily digestible chapters include objectives and review questions. Ancillary resources include an instructor manual with learning objectives, chapter summaries, and case studies; chapter PowerPoint slides; test bank; and image bank. Key Features: Delivers an applied, evidence-based foundation on the basic science underlying prescribing. Targets the specific needs of APRN and PA students and professionals related healthcare providers. Provides clinical decision-making tools and principles to support sound prescribing judgment. Focuses on synthesizing drugs to manage commonly occurring disorders. Includes strategies for addressing the needs of specific populations throughout the lifespan. Includes abundant case studies illuminating key concepts. Includes a robust instructor manual with learning objectives, chapter summaries, and case studies; PowerPoint slides; test bank; and image bank. Purchase includes access to the eBook for use on most mobile devices or computers.

Antimicrobial Stewardship

Well-respected and widely regarded as the most comprehensive text in the field, Antibiotic and Chemotherapy, 9th Edition by Drs. Finch, Greenwood, Whitley, and Norrby, provides globally relevant coverage of all types of antimicrobial agents used in human medicine, including all antiviral, antiparasitic, and antihelminthic agents. Comprehensively updated to include new FDA and EMEA regulations, this edition keeps you current with brand-new information about antiretroviral agents and HIV, superficial and mucocutaneous mycoses and systemic infections, management of the immunocompromised patient, treatment of antimicrobial resistance, plus coverage of new anti-sepsis agents and host/microbe modulators. Reference is easy thanks to a unique 3-part structure covering general aspects of treatment; reviews of every agent; and details of treatments of particular infections. Offer the best possible care and information to your patients about the increasing problem of multi-drug resistance and the widespread range of new antiviral therapies now available for the treatment of HIV and other viral infections. Stay current with 21 new chapters including the latest information on superficial and mucocutaneous mycoses, systemic infections, anti-retroviral agents, and HIV. Get fresh perspectives and insights thanks to 21 newly-authored and extensively re-written chapters. Easily access information thanks to a unique 3-part structure covering general aspects of treatment; reviews of every agent; and details of treatments of particular infections. Apply the latest treatments for anti-microbial organisms such as MRSA, and multi-drug resistant forms of TB, malaria and gonorrhea. Keep up on the latest FDA and EMEA regulations.

Practical Antibiotic Stewardship

Drug Safety in Developing Countries: Achievements and Challenges provides comprehensive information on drug safety issues in developing countries. Drug safety practice in developing countries varies substantially from country to country. This can lead to a rise in adverse reactions and a lack of reporting can exasperate the situation and lead to negative medical outcomes. This book documents the history and development of drug safety systems, pharmacovigilance centers and activities in developing countries, describing their current situation and achievements of drug safety practice. Further, using extensive case studies, the book addresses the challenges of drug safety in developing countries. Provides a single resource for educators, professionals, researchers, policymakers, organizations and other readers with comprehensive information and a guide on drug safety related issues. Describes current achievements of drug safety practice in developing countries. Addresses the challenges of drug safety in developing countries. Provides recommendations, including practical ways to implement strategies and overcome challenges surrounding drug safety.

Pediatrics A Competency-Based Companion E-Book
Why Antibiotic Resistance? The use of antibiotics in human and veterinary medicine may have consequences beyond their intended applications. The “One Health” concept recognizes that the health of humans is connected to the health of animals and the environment. Progress in molecular genetics is facilitating the rapid evaluation of the essentiality of these targets on a genomic scale. In 2015, a group of researchers established the International Conference on Antibiotic Resistance (IC2AR). The primary objective of this meeting is to bring together scientists involved in antibiotic resistance prevention and control. The IC2AR conducted its inaugural world congress in January 2015 at Caparica (Portugal). Antimicrobial resistance presents a significant challenge to scientists in the field of infectious diseases. The full knowledge of how antibiotics resistance is evolving and being transmitted between hosts in different ecosystems is taking on great importance. Necessary action includes research to define the scope of the problem including its various sources. This eBook comprises a series of original research and review articles dealing with the epidemiology of resistance in animal and zoonotic pathogens, mobile elements containing resistance genes, the omics of antimicrobial resistance, emerging antimicrobial resistance mechanisms, control of resistant infections, establishing antimicrobial use and resistance surveillance systems, and alternatives strategies to overcome the problem of antimicrobial resistance worldwide. Gilberto Igrejas, José Luís Capelo and Patrícia Poeta Scientific Committee of IC2AR, February 20th, 2017

Antibiotic Policies

Schlossberg’s Clinical Infectious Disease

Initiating and Sustaining the Clinical Nurse Leader Role: A Practical Guide by James L. Harris and Linda Roussel is the only resource to focus solely on the Clinical Nurse Leader and is designed to teach both CNL students and faculty who lead CNL programs everything they need to know. The CNL designs, implements, and evaluates client care by coordinating, delegating and supervising the care provided by the health care team, including licensed nurses, technicians, and other health professionals. This text serves as a practice guide for preparing the CNL and provides real world tools and processes.

Practical Implementation of an Antibiotic Stewardship Program

Developed with leading experts in infectious disease, this guide is intended to help support institutions in their plans for antifungal stewardship. The guide examines the rationale for, potential benefits of, and potential elements of an antifungal stewardship program, and suggests practical approaches for establishing a program. Numerous factors are converging to make the establishment of an antifungal stewardship program imperative. These include the challenges in diagnosing fungal infections and resulting treatment delays, inappropriate antifungal use in some patients, and increasing costs related to such use. There also is the drive to maintain the best standards of care and to address requirements from governing bodies. But stewardship is not just a mandate; it provides optimization opportunities to all institutions, regardless of size or type. Note: This information is not intended to serve as a substitute for fungal infection treatment guidelines (IDSA), sound clinical judgment or decision making, and professional experience. The content or material provided herein is for informational purposes only and should not be construed as medical, legal, financial, investment, or other professional advice or opinion. This guide is not intended for the diagnosis of disease or other conditions, or the cure, mitigation, treatment, or prevention of disease.

Initiating and Sustaining the Clinical Nurse Leader Role

This book provides unique insights into the issues that drive modified dosing regimens for antibiotics in the critically ill. Leading international authors provide their commentary alongside a summary of existing evidence on how to effectively dose antibiotics. Severe infection frequently necessitates admission to the intensive care unit (ICU). Equally, nosocomial sepsis often complicates the clinical course in ICU. Early, appropriate application of antibiotic therapy remains a cornerstone of effective management. However, this is challenging in the critical care environment, given the significant changes in patient physiology and organ function frequently encountered. Being cognizant of these factors, prescribers need to consider modified dosing regimens, not only to ensure adequate drug exposure, and therefore the greatest chance of clinical cure, but also to avoid encouraging drug resistance.

Annual Update in Intensive Care and Emergency Medicine 2017

Infection control is a major issue in clinical practice. The revised third edition of this highly successful book provides a comprehensive guide to the principles and practice of infection control and prevention, and the basic elements of microbiology and epidemiology that underpin them. The contents are firmly based in clinical practice and are relevant to both hospital and community settings. The information is research-based and extensively referenced and therefore provides an invaluable resource for evidence-based practice. Presentation is clear, concise and accessible to a wide audience including diploma and degree course students, nurses and allied health professionals working in clinical settings, and infection control specialists. This revised third edition includes completely updated source material and references, along with extensive revision of chapters on prevention of surgical site infection, IV device and urinary catheter associated infections to incorporate the most recent evidence. There are updates to many other sections including new microbiological methods, application of protective isolation, Clostridium difficile, gram negative pathogens, VHF and blood-borne viruses, the management of sharps injuries and management of waste, as well as entirely new sections on: Implementation of infection prevention and control policies • Infection risks of water systems • Protective clothing - use of gloves and masks • Hand hygiene compliance • Prevention of ventilator-associated pneumonia • Management of norovirus outbreaks • Decontamination of isolation rooms • Emerging pathogens including MERS-CoV and Zika • Antimicrobial stewardship

A Practical Guide to Global Point-of-Care Testing

Order of names reversed on previous edition.

Antibiotic Pharmacokinetic/Pharmacodynamic Considerations in the Critically Ill

A 2-part issue. Several of the topics for the first issue are pathogen-specific with an emphasis on clinical focus, practical guidance, and emerging science in the field. Additional articles tackle subject matter related to cutting-edge topics in pediatric ID. Part 2 is devoted to pediatrics and features state-of-the-art reviews related to pediatric vaccine-preventable infections. --Prefaces, part 1 and part 2.
Antimicrobial Stewardship in Hospitals

Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases E-Book

This practical reference guide from experts in the field details why and how to establish successful antibiotic stewardship programs.

Essentials of Hospital Infection Control

In an age where antimicrobial resistance amongst pathogens grows more prevalent, particularly in the hospital setting, antimicrobial stewardship is an evidence-based, proven measure in the battle against resistance and infection. This single comprehensive, definitive reference work is written by an international team of acknowledged experts in the field. The authors explore the effective use of coordinated antimicrobial interventions to achieve prescribing practice and help slow the emergence of antimicrobial resistance, ensuring that antimicrobials remain an effective treatment for infection. Amongst the first of its kind, this book provides infectious disease physicians, administrators, laboratory, pharmacy, nursing and medical staff with practical guidance in setting up antimicrobial stewardship programs in their institutions with the aim of selecting the optimal antimicrobial drug regimen, dose, duration of therapy, and route of administration.

Promoting Antifungal Stewardship as a Means of Optimizing the Management of Invasive Fungal Infections

This issue of Medical Clinics, guest edited by Dr. Cheston B. Cunha, is devoted to Antimicrobial Stewardship. Articles in this issue include: Principles of Antimicrobial Stewardship; Antibiotic Resistance in Stewardship; Therapy of Resistant Organisms: A Stewardship Approach; Optimal Antibiotic Dosing Strategies; The Importance of Interdisciplinary Collaboration in Antimicrobial Stewardship; Role of Education in Antimicrobial Stewardship; Role of the Hospital Epidemiologist in Antimicrobial Stewardship; Role of the Clinical Microbiology Laboratory in Antimicrobial Stewardship; Role of New and Rapid Diagnostics In Antimicrobial Stewardship; Antimicrobial Stewardship in the Community Hospital; Antimicrobial Stewardship in Long-Term Care Facilities; Role of the Pharmacist in Antimicrobial Stewardship; Pharmacoeconomic Considerations of Antimicrobial Stewardship Programs; Principles of IV-to-PO Switch and PO therapy; Role of Technology in Antimicrobial Stewardship; and Metrics of Antimicrobial Stewardship Programs.

Antimicrobial Resistance in Bacteria from Livestock and Companion Animals

The Annual Update compiles reviews of the most recent developments in experimental and clinical intensive care and emergency medicine research and practice in one comprehensive reference book. The chapters are written by well recognized experts in these fields. The book is addressed to everyone involved in internal medicine, anesthesia, surgery, pediatrics, intensive care and emergency medicine.

Pediatric Infectious Disease: Part I, An Issue of Infectious Disease Clinics of North America,

Antimicrobial Chemotherapy

This book offers practical tips and essential guidance for trainees and specialists in clinical microbiology and infectious diseases and healthcare professionals interested in infection management to put theoretical knowledge into daily practice. Using common clinical situations and problems as a guide, the handbook is intended to support the healthcare professional from interpretation of laboratory results to consultation and infection control. Key features Concisely covers the critical clinical microbiology and infectious disease topics, with an emphasis on translating theoretical knowledge into clinical practice Provides practical guidance and solutions to commonly encountered issues and scenarios Presented in an accessible format to rapidly aid the clinician in day-to-day practice

Clinical Infectious Disease is the only comprehensive single-volume reference on clinical infectious disease for the busy medical practitioner. Now in its third edition, Clinical Infectious Disease provides rapid access to a practical overview of clinical infectious disease topics such as the susceptible host and nosocomial infection. Organized in topically relevant sections for ease of use and supported by full-color illustrations, this volume focuses on differential diagnosis, focused testing, and practical empiric and specific therapeutics in clinical infectious disease. It also features current research on medical microbiology, antimicrobial stewardship, and evolving treatments for COVID-19. Authoritative and accessible, Clinical Infectious Disease remains the “go to” desktop reference for daily clinical infectious disease problems.

Health Informatics: Practical Guide Seventh Edition

To be the best doctor you can be, you need the best information. For more than 90 years, what is now called Goldman-Cecil Medicine has been the authoritative source for internal medicine and the care of adult patients. Every chapter is written by acclaimed experts who, with the oversight of our editors, provide definitive, unbiased advice on the diagnosis and treatment of thousands of common and uncommon conditions, always guided by an understanding of the epidemiology and pathobiology, as well as the latest medical literature. But Goldman-Cecil Medicine is not just a textbook. Throughout the lifetime of each edition, periodic updates continually include the newest information from a wide range of journals. Furthermore, Goldman-Cecil Medicine is available for all users of ClinicalKey. Elsevier’s full library of subspecialty textbooks that can be accessed by readers who may want even more in-depth information. More than 400 chapters authored by a veritable “Who’s Who” of modern medicine A practical, templated organization with an emphasis on evidence-based references Thousands of algorithms, figures, and tables that make its information readily accessible Supplemented by over 1500 board-style questions and answers to help you prepare for certification and recertification examinations

Surveying Antimicrobial Resistance: Approaches, Issues, and Challenges to Overcome

Point-of-care testing (POCT) refers to pathology testing performed in a clinical setting at the time of patient consultation, generating a rapid test result that enables informed and timely clinical action to be taken on patient care. It offers patients greater convenience and access to health services and helps to improve clinical outcomes. POCT also provides innovative solutions for the detection and management of chronic, acute and
Pharmacology for Women’s Health

Antimicrobial Stewardship

Infectious Diseases and Antimicrobial Stewardship in Critical Care Medicine

Health Informatics: Practical Guide focuses on the application of information technology in healthcare to improve individual and population health, education and research. The goal of the seventh edition is to stimulate and educate healthcare and IT professionals and students about the key topics in this rapidly changing field. Dr. William Hersh from Oregon Health & Science University is the co-editor and author of multiple chapters. Topics include Health Informatics (HI) overview, electronic health records, healthcare data analytics, health information exchange, architecture of information systems, evidence-based medicine, consumer health informatics, HI ethics, quality improvement strategies and more. The 22 chapters feature learning objectives, case studies, recommended reading, future trends, key points, conclusions and over 1800 references. It is available as a paperback and an eBook. Visit the textbook companion website at http://informaticseducation.org/ for more information.

Healthcare-Associated Infections in Children

Antimicrobial Stewardship (AMS), Volume Two includes the experience of ESGAP workshops and courses on antibiotic stewardship since 2012. It combines clinical and laboratory information about AMS, with a focus on human medicine. The ESCMID study group on antibiotic policies (ESGAP) is one of the most productive groups in the field, organizing courses and workshops. This book is an ideal tool for the participants of these workshops. With short chapters (around 1500 words) written on different topics, the authors insisted on the following points: A ‘hands on’, practical approach, tips to increase success, a description of the most common mistakes, a global picture (out- and inpatient settings, all countries) and a short list of 10-20 landmark references. Focuses on the most recent antimicrobial stewardship strategies. Provides a detailed description of laboratory support. Offers a balanced synthesis of basic and clinical sciences for each individual case, presenting clinical courses of the cases in parallel with the pathogenesis and detailed microbiological information for each infection. Describes the prevalence and incidence of the global issues and current therapeutic approaches. Presents the measures for infection control.

Surgical Intensive Care Medicine

This issue of Infectious Diseases Clinics of North America, Guest Edited by Mary Anne Jackson, MD and Angela Myers, MD, is part I of a 2-part issue devoted to Pediatric Infectious Diseases. Drs. Jackson and Myers have assembled a group of expert authors to review the following topics: Diagnosis and Management of Kawasaki Disease; Neonatal HSV Infection; Use of Newer Diagnostics for Pediatric Tuberculosis; Recognition and Prompt Treatment for Tick Borne Infections; Prevention of Recurrent Staphylococcal Skin Infections; Evaluation and Management of the Febrile Young Infant; New Horizons for Pediatric Antimicrobial Stewardship; Pitfalls in Diagnosis of Pediatric Clostridium Difficile Diarrhea; The Changing Epidemiology of Pediatric Endocarditis; Neonatal Parechovirus Infection; Osteoarticular infections in Children; and Pediatric CMV Disease.

Handbook of Urology

In this era of evidence-based medicine, one of the biggest challenges confronting clinicians is keeping abreast of the many rapidly changing recommendations that guide clinical practice. This new edition of The Oxford Desk Reference in Nephrology is designed to overcome this problem. The editors have produced a comprehensive summary of nephrology which focuses on renal disease that are important to the clinician and have brought together the key recommendations found in current evidence-based guidelines and presented them in a uniform and accessible format. It has been designed and written so that locating information is both quick and simple, and the layout of the chapters allows the reader to identify and assimilate information rapidly. Fully updated, with new chapters covering developments in nephrological practice, in particular a section on Covid 19 and the kidneys, this Desk Reference is an important addition to the armamentarium for nephrology trainees, and consultants as well as trainees in general medicine.

Antimicrobial Stewardship

Back Cover Copy: Infectious Diseases and Antimicrobial Stewardship in Critical Care Medicine 4E has been fully updated and revised. The clinical diagnostic approach to common infectious disease problems in the CCU is the underlying theme in the book. Emphasized throughout is the importance of formulating an accurate early presumptive clinical syndromic diagnosis which is the basis for selecting optimal initial antimicrobial therapy in the CCU. Without an accurate presumptive clinical diagnosis, effective therapy is unlikely at best. Based on the most probable clinical diagnosis, optimal antibiotic empiric therapy, based on antimicrobial stewardship principles, minimizes resistance and antibiotic complications in the CCU. This new edition features chapters that explain the tenets of differential diagnostic reasoning, differential diagnostic characteristics of fever patterns in the CCU. The proper interpretation of rapid diagnostic tests, in the appropriate clinical context, is included. The diagnostic importance of cardinal clinical findings, particularly when combined, in the appropriate clinical context is emphasized and remains the basis for clinical problem solving in the CCU. Unguided diagnostic physical findings in the CCU, including color atlas of diagnostic eye findings, are included as important diagnostic determinants in the CCU. Written by infectious disease clinicians for CCU consultants, Infectious Diseases and Antimicrobial Stewardship in Critical Care Medicine 4E remains a useful evidence based and experience tempered key clinical resource for infectious disease problems in the CCU. Key Features Essentials of the tenets of clinical diagnostic reasoning is explained as it relates to formulating a
rapid and accurate clinical syndromic diagnosis in the CCU. The diagnostic significance of fever patterns and their relationship to the pulse rate in the proper clinical context is explained in depth as related to the CCU setting. Formulating an accurate early clinical syndromic diagnosis is presented as essential since it is the basis of effective empiric antibiotic therapy in the CCU. How to combine key non-specific laboratory and imaging findings to increase diagnostic specificity and diagnostic probability in the CCU is presented. Clinical perspective on the proper interpretation of the clinical significance of rapid diagnostic test results in the CCU is included. A clinical approach to apparent "antibiotic failure" in the CCU is presented either due to actual antibiotic failure or seeming but unrelated non-antibiotic failure. Section focuses on the practical aspects of antimicrobial stewardship particularly as related to optimizing dosing effectiveness while minimizing resistance and adverse effects in the CCU.

**Goldman-Cecil Medicine E-Book**

For four decades, physicians and other healthcare providers have trusted Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases to provide expert guidance on the diagnosis and treatment of these complex disorders. The 9th Edition continues the tradition of excellence with newly expanded chapters, increased global coverage, and regular updates to keep you at the forefront of this vitally important field. Meticulously updated by Drs. John E. Bennett, Raphael Dolin, and Martin J. Blaser, this comprehensive, two-volume masterwork puts the latest information on challenging infectious diseases at your fingertips. Provides more in-depth coverage of epidemiology, etiology, pathology, microbiology, immunology, and treatment of infectious agents than any other infectious disease resource. Features an increased focus on antibiotic stewardship; new antivirals for influenza, cytomegalovirus, hepatitis C, hepatitis B., and immunizations; and new recommendations for vaccination against infection with pneumococci, papillomaviruses, hepatitis A, and pertussis. Covers newly recognized enteroviruses causing paralysis (E-A71, E-D68); emerging viral infections such as Ebola, Zika, Marburg, SARS, and MERS; and important updates on prevention and treatment of C. difficile infection, including new tests that diagnose or falsly diagnose infectious diseases. Offers fully revised content on bacterial pathogenesis, antibiotic use and toxicity, the human microbiome and its effects on health and disease, immunological mechanisms and immunodeficiency, and probiotics and alternative approaches to treatment of infectious diseases. Discusses up-to-date topics such as use of the new PCR panels for diagnosis of meningitis, diarrhea and pneumonia; newly recognized infections transmitted by black-legged ticks in the USA: Borrelia miyamotoi and Powassan virus; infectious complications of new drugs for cancer; new drugs for resistant bacteria and mycobacteria; new guidelines for diagnosis and therapy of HIV infections; and new vaccines against herpes zoster, influenza, meningococci. PPID continues its tradition of including leading experts from a truly global community, including authors from Australia, Canada and countries in Europe, Asia, and South America. Features more than 1,500 high-quality, full-color photographs—with hundreds new to this edition.