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Estimating antibiotic coverage from linked microbiological and clinical data from the Swiss Paediatric Sepsis Study to support empiric antibiotic regimen selection

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In light of rising antibiotic resistance, better methods for selection of empiric antibiotic treatment based on clinical and microbiological data are needed. Most guidelines target specific clinical infections, and variably adjust empiric antibiotic selection by certain patient characteristics. Coverage estimates reflect the probability that an antibiotic regimen will be active against the causative pathogen once confirmed and can provide an objective basis for empiric regimen selection. Coverage can be estimated for specific infections using a weighted incidence syndrome combination antibiograms (WISCAs) framework. However, no comprehensive data combining clinical and microbiological data for specific clinical syndromes are available in Switzerland. We therefore describe estimating coverage from semi-deterministically linked routine microbiological and cohort data of hospitalised children with sepsis. Coverage estimates were generated for each hospital and separately pooling data across ten contributing hospitals for five pre-defined patient risk groups. Data from 1,082 patients collected during the Swiss Paediatric Sepsis Study (SPSS) 2011–2015 were included. Preterm neonates were the most commonly represented group, and half of infants and children had a comorbidity. 67% of neonatal sepsis cases were hospital-acquired late-onset whereas in children 76% of infections were community-acquired. *Escherichia coli*, Coagulase-negative staphylococci (CoNS) and *Staphylococcus aureus* were the most common pathogens. At all hospitals, ceftazidime plus amikacin regimen had the lowest coverage, and coverage of amoxicillin plus gentamicin and meropenem were generally comparable. Coverage was improved when vancomycin was included in the regimen, reflecting uncertainty about the empirically targeted pathogen spectrum. Children with community-acquired infections had high coverage overall. It is feasible to estimate coverage of common empiric antibiotic regimens from linked data. Pooling data by patient risk groups with similar expected pathogen and susceptibility profiles may improve coverage estimate precision, supporting better differentiation of coverage between regimens. Identification of data sources, selection of regimens and consideration of pathogens to target for improved empiric coverage is important.

KEYWORDS

sepsis, paediatrics, antibiotic treatment, empiric antibiotic therapy, antibiotic resistance, coverage, WISCA

Sepsis Clinical Antibiotic Selection Volume 1

Samir S. Taneja, Ojas Shah



Sepsis Clinical Antibiotic Selection Volume 1:

Textbook of Critical Care E-Book Jean-Louis Vincent, Frederick A. Moore, Rinaldo Bellomo, John J. Marini, 2022-12-21 Bridging the gap between medical and surgical specialties in critical care Textbook of Critical Care 8th Edition offers a practical multidisciplinary approach to the effective management of adult and pediatric patients in the ICU An outstanding editorial team led by world renowned intensivist Dr Jean Louis Vincent assisted by Dr Frederick A Moore and new editors Drs Rinaldo Bellomo and John J Marini provides the evidence based guidance you need to overcome a full range of practice challenges A full color art program relevant basic science and key summary points in every chapter and expert contributing authors from all over the world make this an indispensable resource for every member of the critical care team Provides a concise readable understanding of the pathophysiology of critical illness and new therapeutic approaches to critical care Addresses both medical and surgical aspects in critical care for adult and pediatric patients in one comprehensive easy to use reference Shares the knowledge and expertise of the most recognized and trusted leaders in the field with more international contributing authors than in previous editions Covers new information on procedural and diagnostic ultrasound prone positioning ECMO and VADs Discusses key topics such as organ support telemedicine echocardiography antibiotic stewardship antiviral agents coagulation and anti coagulation and more Features a wealth of tables boxes algorithms diagnostic images and key points that clarify important concepts and streamline complex information for quick reference Includes companion videos and exclusive chapters online that cover commonly performed procedures Takes a multidisciplinary approach to critical care with contributions from experts in anesthesia surgery pulmonary medicine and pediatrics Enhanced eBook version included with purchase Your enhanced eBook allows you to access all of the text figures and references from the book on a variety of devices

Johns Hopkins POC-IT Center ABX Guide: Diagnosis & Treatment of Infectious Diseases John G. Bartlett, Paul G. Auwaerter, Paul A. Pham, 2010-10-25 The Johns Hopkins POC IT Center ABX Guide Second Edition continues to provide current authoritative comprehensive information on anti microbial agents infectious diseases and commonly encountered pathogens in one portable volume Written by experts at the world renowned Johns Hopkins University School of Medicine this must have resource features expert recommendations clinical and diagnostic decision making tools and drug to drug interactions Concise thorough and current The Johns Hopkins ABX Guide Second Edition is designed for quick reference and comprehension Information is featured in an easy to access format that facilitates rapid application of knowledge at the point of care Jones Bartlett Learning is the Official Print and Mobile Provider of the Johns Hopkins ABX Guide

Pediatric Emergency Medicine Jill M. Baren, 2008-01-01 This authoritative reference equips you with the essential knowledge to provide comprehensive and effective care to children in an emergency setting From age specific diagnoses and chief complaints through developmental considerations and psychosocial issues this text guides you through the full range of medical and surgical conditions commonly encountered when treating pediatric

emergencies The use of full color throughout diagnostic algorithms text boxes charts clinical pearls and pitfalls and other visual features ensure the book will make crucial clinical information easy to find and apply Tap into expert guidance on all aspects of pediatric emergency medicine from the physical exam and usual and unusual presentations through to disposition criteria and transfer issues Access step by step guidance on administering critical life support interventions and providing effective diagnostic and therapeutic ambulatory care Quickly review specific treatment protocols for various emergency settings including general emergency departments community hospitals tertiary care centers EMS and transport and triage Find information fast with or without a known diagnosis with content organized both by chief complaints and by specific diagnoses Better understand how problems present differently in infants children and adolescents with age specific diagnoses Identify and manage the psychosocial issues surrounding pediatric patients including major depression and suicidality sexual and physical abuse child neglect and violence Easily absorb key information with the aid of text boxes algorithms clinical pearls and pitfalls Retrieve information easily with a consistent templated format

Critical Care Medicine at a Glance Richard M. Leach, 2023-03-20 Critical Care Medicine at a Glance The market leading at a Glance series is popular among healthcare students and newly qualified practitioners for its concise simple approach and excellent illustrations Each bite sized chapter is covered in a double page spread with clear easy to follow diagrams supported by succinct explanatory text Covering a wide range of topics books in the at a Glance series are ideal as introductory texts for teaching learning and revision and are useful throughout university and beyond Everything you need to know about Critical Care Medicine at a Glance Critical Care Medicine at a Glance Fourth Edition provides a succinct accessible highly illustrated introduction to the care of the critically ill patient Designed for medical students junior doctors and nurses alike this authoritative revision guide covers the essential clinical diagnostic and therapeutic skills required to manage critically ill patients with a wide range of conditions in a variety of settings Colour coded chapters which contain concise explanatory text applications to practice and numerous high quality photographs illustrations diagrams and tables Fully revised to reflect current guidelines changes in practice and recent medical innovations this fourth edition includes expanded coverage of resus sepsis COVID 19 ECMO dermatological emergencies envenomation and other key conditions and procedures Updated chapters incorporate current assessment methods used by medical schools and postgraduate training programmes whilst additional Pearls of Wisdom boxes and Wise Owl Reading reference suggestions are integrated throughout to aid learning and comprehension Allows rapid access to the knowledge and skills required to care for the acute and critically ill Covers a wide range of topics such as respiratory and neurological emergencies arrhythmias ventilation and intubation trauma surgery and abdominal imaging Features contributions from leading critical care practitioners Provides normal values reference ranges and treatment and monitoring guidelines for various critical care scenarios Includes practical case studies revision questions and self assessment tests with answers Contains several useful appendices including information on

pacemaker types and classifications Critical Care Medicine at a Glance Fourth Edition is a must have for medical students junior doctors and nurses in intensive care and emergency medicine and those undertaking postgraduate exams For more information on the complete range of Wiley Medical Education publications please visit www.wiley.com To receive automatic updates on Wiley books and journals join our email list Sign up today at www.wiley.com email All content reviewed by students for students Wiley Medical Education books are designed exactly for their intended audience All of our books are developed in collaboration with students This means that our books are always published with you the student in mind If you would like to be one of our student reviewers go to www.reviewmedicalbooks.com to find out more This book is also available as an e book For more details please see www.wiley.com buy 9781119605881 Veterinary Surgery: Small Animal Expert Consult - E-BOOK Spencer A. Johnston, Karen M. Tobias, 2017-06-14 Selected for Doody's Core Titles 2024 with Essential Purchase designation in Veterinary Medicine Focus on the how and why of medical surgical conditions the critical issues that lead to successful outcomes for your patients with Veterinary Surgery Small Animal Second Edition This two volume full color resource offers an authoritative comprehensive review of disease processes a thorough evaluation of basic clinical science information and in depth discussion of advanced surgeries With an updated Expert Consult website you can access anytime and detailed coverage of surgical procedures it is the definitive reference for surgical specialists practicing veterinarians and residents Expert Consult website offers access to the entire text online plus references linked to original abstracts on PubMed Comprehensive coverage includes surgical biology surgical methods and perioperative care neurosurgery and orthopedics in Volume One and all soft tissue surgery organized by body system in Volume Two Extensive references to published studies available on Expert Consult show the factual basis for the material Strong blend of clinical and basic science information facilitates a clear understanding of clinical issues surrounding operative situations Highly recognized contributing authors create chapters from their own experience and knowledge base providing the most authoritative current information available Coverage of anatomy physiology and pathophysiology in chapters on specific organs includes information critical to operative procedures and patient management In depth chapters on anesthesia surgical oncology tumors of the spine and musculoskeletal neoplasia provide valuable resources for practicing surgeons especially in the area of cancer treatment Preoperative considerations and surgical implications for surgical procedures help surgeons make decisions about treatment approaches NEW and UPDATED Expert Consult website with print text plus complete online access to the book's contents so you can use it anytime anywhere EXPANDED Coverage of interventional radiology techniques in Volume Two soft tissue volume to provide cutting edge information on contemporary imaging modalities that gain access to different structures of the patient's body for diagnostic and therapeutic reasons NEW and UPDATED Expanded coverage of coaptation devices and small animal prosthetics clearly explains how they are used in a variety of clinical situations EXPANDED Principles of minimally invasive plate treatment added to Volume One orthopedic

volume to show how these advancements maximize healing and protect the patient while meeting the surgeon's goals in using fracture fixation

Infectious Diseases E-Book Jonathan Cohen, William G Powderly, Steven M. Opal, 2016-06-10 Drs Cohen Powderly and Opal three of the most respected names in infectious disease medicine lead a diverse team of international contributors to bring you the latest knowledge and best practices Extensively updated the fourth edition includes brand new information on advances in diagnosis of infection Hepatitis C managing resistant bacterial infections and many other timely topics An abundance of photographs and illustrations a practical clinically focused style highly templated organization and robust interactive content combine to make this clinician friendly resource the fastest and best place to find all of the authoritative current information you need Hundreds of full color photographs and figures provide unparalleled visual guidance Consistent chapter organization and colorful layouts make for quick searches Clinically focused guidance from Practice Points demonstrates how to diagnose and treat complicated problems encountered in practice The Syndromes by Body System HIV and AIDS and International Medicine sections are designed to reflect how practicing specialists think when faced with a patient Sweeping updates include new or revised chapters on Hepatitis C and antivirals Fungal infection and newer antifungals Microbiome and infectious diseases as well as advances in diagnosis of infection *Clostridium difficile* epidemiology infection control in the ICU setting *Chlamydia trachomatis* infection acquired syndromes associated with autoantibodies to cytokines management of multidrug resistant pathogens probiotics polymyxins and the pathway to developing new antibiotics HIV including HIV and aging antiretroviral therapy in developing countries and cure for HIV Online Antimicrobial pharmacokinetics mannequin as well as an all new HIV medicine mannequin are a useful visual source of treatment information

Evidence-Based Practice of Critical Care E-Book Clifford S. Deutschman, Patrick J. Neligan, 2015-11-26 Evidence Based Practice of Critical Care 2nd Edition presents objective data and expert guidance on managing critically ill patients in unique question based chapters that focus on best practices Now thoroughly updated by Drs Clifford S Deutschman Patrick J Neligan and nearly 200 critical care experts this highly regarded title remains the only book of its kind that provides a comprehensive framework for translating evidence into practice making it a valuable resource for both residents and practitioners Tap into the expertise of nearly 200 critical care experts who discuss the wide variety of clinical options in critical care examine the relevant research and provide recommendations based on a thorough analysis of available evidence Think through each question in a logical efficient manner using a practical consistent approach to available management options and guidelines Find the information you need quickly with tables that summarize the available literature and recommended clinical approaches Navigate a full range of challenges from routine care to complicated and special situations Stay up to date with new issues and controversies such as the redefinition of sepsis changing approaches to fluid administration immune suppression in sepsis monitoring the microcirculation the long term sequelae of critical illness minimizing ventilator associated lung injury the benefits of evidence based medicine management

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Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases E-Book John E. Bennett, Raphael Dolin, Martin J. Blaser, 2019-08-08 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, E71, E68, 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 falsely over-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, current management of infected orthopedic implant infections, 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, and 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. Includes regular updates online for the life of the edition. Features more than 1,500 high-quality, full-color photographs, with hundreds new to this edition. Enhanced eBook version included with purchase, which allows you to access all of the text, figures, and references from the book on a variety of devices.

Johns Hopkins ABX Guide 2012 John G. Bartlett, Paul A. Pham, 2011-10-06 Jones Bartlett Learning is the Official Print and Mobile Provider of the Johns Hopkins POC IT Center ABX Guide. Thoroughly revised and updated for 2012, the Johns Hopkins ABX Guide Third Edition continues to provide current, authoritative, and comprehensive information on anti-microbial agents, infectious disease, and commonly encountered pathogens in one portable volume. Written by experts at the world-renowned Johns Hopkins University School of Medicine, this must-have resource features expert recommendations, clinical and diagnostic decision-making tools, and drug-to-drug interactions. Concise, thorough, and current, The Johns Hopkins ABX Guide Second Edition is designed for quick reference and comprehension. Information is featured in an easy-to-access format that facilitates rapid application of knowledge at the point of care.

Conn's Current Therapy 2017 E-Book Edward T. Bope, Rick D. Kellerman, 2016-10-10 Covering more than 300 clinically relevant topics, Conn's Current Therapy 2017 by Drs. Edward T.

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Advances in Small Animal Care, E-Book 2021 Philip H. Kass,David Levine,Denis J. Marcellin-Little,Laurel Gershwin,Larry D. Cowgill,2021-10-12 *Advances in Small Animal Care* reviews the year s most important questions in small animal veterinary medicine A distinguished editorial board identifies key areas of major progress and controversy and invites preeminent specialists to contribute original articles devoted to these topics These insightful overviews in small animal care bring concepts to a clinical level and explore their everyday impact on patient care Provides in depth clinical reviews in small

animal care providing actionable insights for clinical practice Presents the latest information in the field under the leadership of an experienced editorial team Authors synthesize and distill the latest research and practice guidelines to create these timely topic based reviews *Principles and Practice of Pediatric Infectious Diseases E-Book* Sarah S. Long, Charles G. Prober, Marc Fischer, David Kimberlin, 2022-03-10 Comprehensive in scope yet concise and easy to manage Principles and Practice of Pediatric Infectious Diseases 6th Edition by Drs Sarah S Long Charles G Prober Marc Fischer and new editor David Kimberlin 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 Covers the latest aspects of the COVID 19 pandemic including manifestations diagnosis management and prevention of SARS CoV 2 infection Features an 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 Highlights expanding antimicrobial resistance patterns and new therapies for viral and fungal infections and resistant bacterial infections Includes coverage of the latest vaccine products recommendations and effectiveness Reviews emerging healthcare associated infections their management control and prevention Contains a new chapter on Chorioamnionitis and Neonatal Consequences **Books in Series** ,1980 *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office, 1975 **Complications of Urologic Surgery E-Book** Samir S. Taneja, Ojas Shah, 2017-09-07 From the simple to the complex Complications of Urologic Surgery 5th Edition by Drs Samir S Taneja and Ojas Shah offers concise to the point information on prevention and management strategies that help you provide the best patient care Covering both office based complications as well as common and uncommon surgical complications arising from open and minimally invasive urologic surgery this updated full color volume is an invaluable resource for exam study or for convenient reference in everyday practice Contains hundreds of self assessment questions case studies and minimally invasive surgery videos on Expert Consult as well as review questions and illustrated case studies throughout the book Contains 14 new chapters including Management of Urine Leak Urologic Surgery in the Pregnant Female Complications of Gender Assignment Surgery Urologic Surgery in the Previously Radiated Field Complications of Robotic Pelvic Floor Reconstruction and Complications of Robotic Cystectomy Keeps you up to date with current preoperative management concerns including complications with effusion hydrothorax hemothorax diaphragm injury pneumonia and air embolus Features more than 180 superb new illustrations graphs and tables for easier understanding of complex concepts Reviews new anticoagulant drugs and their risks and benefits Provides thoroughly updated content on oncology endourology and pediatric surgeries all areas experiencing tremendous changes since the previous edition Expert Consult™ eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures Q As and references from the book on a variety of devices

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Table of Contents Sepsis Clinical Antibiotic Selection Volume 1

1. Understanding the eBook Sepsis Clinical Antibiotic Selection Volume 1
 - The Rise of Digital Reading Sepsis Clinical Antibiotic Selection Volume 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Sepsis Clinical Antibiotic Selection Volume 1
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Sepsis Clinical Antibiotic Selection Volume 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sepsis Clinical Antibiotic Selection Volume 1
 - Personalized Recommendations
 - Sepsis Clinical Antibiotic Selection Volume 1 User Reviews and Ratings
 - Sepsis Clinical Antibiotic Selection Volume 1 and Bestseller Lists
5. Accessing Sepsis Clinical Antibiotic Selection Volume 1 Free and Paid eBooks
 - Sepsis Clinical Antibiotic Selection Volume 1 Public Domain eBooks
 - Sepsis Clinical Antibiotic Selection Volume 1 eBook Subscription Services
 - Sepsis Clinical Antibiotic Selection Volume 1 Budget-Friendly Options

6. Navigating Sepsis Clinical Antibiotic Selection Volume 1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Sepsis Clinical Antibiotic Selection Volume 1 Compatibility with Devices
 - Sepsis Clinical Antibiotic Selection Volume 1 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sepsis Clinical Antibiotic Selection Volume 1
 - Highlighting and Note-Taking Sepsis Clinical Antibiotic Selection Volume 1
 - Interactive Elements Sepsis Clinical Antibiotic Selection Volume 1
8. Staying Engaged with Sepsis Clinical Antibiotic Selection Volume 1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sepsis Clinical Antibiotic Selection Volume 1
9. Balancing eBooks and Physical Books Sepsis Clinical Antibiotic Selection Volume 1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sepsis Clinical Antibiotic Selection Volume 1
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Sepsis Clinical Antibiotic Selection Volume 1
 - Setting Reading Goals Sepsis Clinical Antibiotic Selection Volume 1
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Sepsis Clinical Antibiotic Selection Volume 1
 - Fact-Checking eBook Content of Sepsis Clinical Antibiotic Selection Volume 1
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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