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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

**Clifford S. Deutschman, MS, MD,
FCCM, Patrick J. Neligan**



Sepsis Clinical Antibiotic Selection Volume 1:

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 **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 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 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 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 **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 **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 *Unlisted Drugs*, 1974 [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 guidelines rapid response teams and more Benefit from all new sections covering persistent critical illness and the role of advanced practice nurses and physician assistants in the ICU

Evidence-Based Practice of Critical Care Clifford S. Deutschman, MS, MD, FCCM, Patrick J. Neligan, 2015-12-18 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 guidelines rapid response teams and more Benefit from all new sections covering persistent critical illness and the role of advanced practice nurses and physician assistants in the ICU

Ferri's Clinical Advisor 2020 E-Book Fred F. Ferri, 2019-06-01 Significantly updated with the latest developments in diagnosis and treatment recommendations Ferri's Clinical Advisor 2020 features the popular 5 books in 1 format to organize vast amounts of information in a clinically relevant user friendly manner This efficient intuitive format provides quick access to answers on 1 000 common medical conditions including diseases and disorders differential diagnoses and laboratory tests all reviewed by experts in key clinical fields Updated algorithms along with hundreds of new figures tables and boxes ensure that you stay current with today's medical practice Contains significant updates throughout covering all aspects of current diagnosis and treatment Features 27 all new topics including chronic traumatic encephalopathy medical marijuana acute respiratory failure gallbladder carcinoma shift work disorder radial tunnel syndrome fertility preservation in women fallopian tube cancer primary chest wall cancer large bowel obstruction inguinal hernia and bundle branch block among others Includes a new appendix covering Physician Quality Reporting System PQRS Measures Provides current ICD 10 insurance billing codes to help expedite insurance reimbursements Patient Teaching Guides for many of the diseases and disorders are included most available in both English and Spanish versions which can be downloaded and printed for patients

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 Bope and Rick D Kellerman offers an in depth personal approach to treatment from international experts ideally suited for today's busy medical practitioners Trustworthy and easy to use this annually updated resource focuses solely on the most current treatment protocols for common complaints acute diseases and chronic illnesses you're likely to see New chapters and numerous new authors in this edition bring you fully up to date on the topics you need to know about for effective patient care Reliable in depth systems based content suitable for all first line of defense

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Lehman,2022-11-02 Selected for Doody s Core Titles 2024 in Laboratory Technology Gain the knowledge and skills you need to succeed in the clinical lab Textbook of Diagnostic Microbiology 7th Edition uses a reader friendly building block approach to help you learn the essentials of diagnostic microbiology Featuring full color drawings and photos this text helps you learn to develop the critical thinking and problem solving skills necessary to the accurate diagnosis of infectious diseases and the identification of infectious agents Written by noted educators Connie R Mahon and Donald C Lehman this edition adds new content on SARS CoV 2 and COVID 19 along with the latest information on prevention treatment modalities and CDC guidelines Building block approach encourages you to use previously learned information in mastering new material Full color photographs and photomicrographs make it easier to understand and apply diagnostic microbiology concepts Case studies describe clinical and laboratory findings offering opportunities to correlate observations with possible etiologic agents and to build critical thinking and problem solving skills Hands on procedures in the appendices describe techniques used in the lab setting Issues to Consider boxes list important points to think about while reading the chapter Case Checks in each chapter highlight specific points in the text and show how they connect to case studies Bolded key terms with abbreviations are listed at the beginning of each chapter showing the most important and relevant terms in each chapter Learning Objectives at the beginning of each chapter supply you with a measurable learning outcome to achieve by completing the material Points to Remember sections at the end of each chapter provide a bulleted list of key concepts Learning Assessment Questions at the conclusion of each chapter help you to think critically and to evaluate how well you have mastered the material Agents of Bioterror and Forensic Microbiology chapter provides the most current information about these important topics Lab manual on the Evolve website reinforces concepts with real life scenarios and review questions Glossary at the end of the book supplies you with a quick reference for looking up definitions of key terms NEW Information about SARS CoV 2 and COVID 19 is added to this edition NEW Updated content is included throughout the book and several chapters are reorganized and refocused NEW Enterobacteriaceae chapter is updated **Clinical Veterinary Advisor - E-Book** Etienne Cote,2014-12-09 No other quick reference comes close in covering the diagnosis and treatment of

hundreds of diseases in dogs and cats Etienne Cote's Clinical Veterinary Advisor Dogs and Cats 2nd Edition is like six books in one with concise topics within sections on diseases and disorders procedures and techniques differential diagnosis laboratory tests clinical algorithms and a drug formulary Revised from cover to cover this edition includes dozens of new topics It also includes free access to a fully searchable companion website featuring an electronic version of the text all of the book's images a searchable drug formulary and 150 Client Education Sheets in both English and Spanish Section I Diseases and Disorders provides at a glance coverage of nearly 800 common medical problems arranged alphabetically for immediate access Entries include a definition synonyms epidemiology clinical presentation etiology and pathophysiology differential diagnosis workup treatment prognosis and outcome plus pearls and considerations Concise descriptions simplify diagnosis and treatment Section II Procedures and Techniques offers illustrated step by step instructions for understanding and performing 111 important clinical procedures Section III Differential Diagnosis displays nearly every possible cause for 260 different clinical disorders Section IV Laboratory Tests summarizes essential information needed for interpreting more than 150 lab tests Section V Clinical Algorithms provides decision trees for the diagnostic and therapeutic decision making processes involved in managing 91 of the most common clinical conditions disorders Section VI Drug Formulary is a compilation of dosages and other relevant information for more than 300 new and current medications 410 illustrations and photographs depict disease processes and related concepts A companion website includes the complete text of the book in a fully searchable format allowing quick access to information and all of the book's images It also includes 150 Client Education Sheets each available in both English and Spanish Clinical guidance added to diseases and disorders chapters helps you select appropriate tests and treatments for each case 50 new client how to handouts are added for a total of 150 client education sheets helping to improve outcomes by informing clients Technician Tips are inserted throughout nearly 800 diseases and disorders providing specialized information for veterinary technicians Enhanced electronic image collection on the companion website includes color images and additional figures not found in the text

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 **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

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 [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

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Comprehensive Hospital Medicine E-Book Mark V. Williams, Scott A. Flanders, Winthrop Whitcomb, Steven Cohn, Frank Michota, Russell Holman, Richard Gross, Geno J. Merli, 2007-09-26 In the exciting and growing field of hospital medicine you re as concerned with the efficient management of your unit as you are the effective care of your patients This title is your ideal new clinical reference on both counts Nationally recognized experts equip you with practical actionable guidance on all of the challenges you face every day making it easier for you to provide optimal care for every patient State of the art evidence based hospital focused guidelines on clinical assessment diagnosis prognosis treatment and discharge follow up planning help you to effectively manage all of the key disorders in every body system 20 chapters focused on peri operative care assist you in navigating this increasingly important component of hospital medicine practice Expert advice on systems issues explores how to establish and enhance a hospitalist program provide leadership manage patient transitions of care establish a teamwork model with hospital staff promote patient safety and staff performance improvement standardize care and navigate legal and ethical concerns

Diagnostic Pathology: Placenta - E-BOOK Amy Heerema-McKenney, Edwina J. Popek, Monique E. De Paepe, 2024-06-10 This expert volume in the Diagnostic Pathology series is an excellent point of care resource for practitioners at all levels of experience and training Covering all aspects of placental pathology and the critical role the placenta plays in the unique interface between mother and fetus this volume incorporates the most up to date scientific and technical knowledge to provide a comprehensive overview of all key issues relevant to today s practice Richly illustrated and easy to use the third edition of Diagnostic Pathology Placenta is a visually stunning one stop resource for every practicing pathologist fellow resident or student as an ideal day to day reference or as a reliable training resource and is useful to even the most experienced placental pathologist for diagnostic criteria grading and relevance of placental tissue samples Covers all areas of placental pathology with clear and concise information on gross and microscopic changes of the placenta common diagnoses and placental evaluation in special circumstances Provides expert guidance on key topics such as maternal mortality placental pathology constellations and typical clinical correlates pregnancy complications such as preeclampsia intrauterine growth restriction and multiple gestation and the pathology of disorders of placental implantation and the postpartum hysterectomy Includes detailed up to date information on maternal COVID 19 and placental pathology including SARS CoV 2 placentitis and new chapters on fetal hydrops common placental associations with stillbirth second trimester demise and more Contains significantly updated information throughout including new content images and references to reflect the most current diagnoses and provide ease for daily case sign out Features more than 1 450 images both in print and online including histology and gross pathology images full color medical illustrations clinical photographs and radiology images to help practicing and in training pathologists reach a confident diagnosis Employs consistently

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