

Stanford Hospital & Clinics Antimicrobial Dosing Reference Guide 2013

This document is also located on the SHC Intranet (<http://portal.stanfordmed.org/depts/pharmacy>)
and <http://www.stanford.edu/ABX>, Subcommittee Approved: May 08, 2013

Formulas for dosing weights: Ideal body weight (IBW) (male) = 50kg + (2.3 x height in inches - 60 inches)

Ideal body weight (IBW) (female) = 45kg + (2.3 x height in inches - 60 inches) - Adjusted Body Weight (ABW) (kg) = IBW + 0.4 (TBW - IBW)

Drug	CrCl >50 mL/min	CrCl 10–50 mL/min	CrCl <10 mL/min	Intermittent Hemodialysis (IHD)	CRRT															
Acyclovir (IV) ^{1,2,3,4,5,6} (Use ideal BW for obese)	HSV: 5 mg/kg q8h HSV: acyclovir/valaciclovir 10 mg/kg q8h	Same dose CrCl 20–50: q12h CrCl 10–20: q24h	IVIG: 2.5 mg q24h HSV: acyclovir/valaciclovir 5 mg/kg q24h	IVIG: 2.5 mg/kg q24h HSV: acyclovir/valaciclovir 5 mg/kg q24h Dose after HD on HD-days	IVIG: 5 – 7.5 mg/kg q24h HSV: acyclovir/valaciclovir 7.5 – 10 mg/kg q12h															
Acyclovir (PO) ^{1,2}	<table><tr><td></td><td>CrCl > 25</td><td>CrCl 10–25</td><td>CrCl <10</td></tr><tr><td>HSV/ mucocutaneous</td><td>400 mg q8h</td><td>200 mg q8h</td><td>200 mg q12h</td></tr><tr><td>VZV, HSV/ septic</td><td>800 mg q4h (or 5x daily)</td><td>800 mg q8h</td><td>800 mg q12h</td></tr></table>		CrCl > 25	CrCl 10–25	CrCl <10	HSV/ mucocutaneous	400 mg q8h	200 mg q8h	200 mg q12h	VZV, HSV/ septic	800 mg q4h (or 5x daily)	800 mg q8h	800 mg q12h			See CrCl < 10 mL/min Administer after HD on HD-days	No Data			
	CrCl > 25	CrCl 10–25	CrCl <10																	
HSV/ mucocutaneous	400 mg q8h	200 mg q8h	200 mg q12h																	
VZV, HSV/ septic	800 mg q4h (or 5x daily)	800 mg q8h	800 mg q12h																	
Amphotericin B Liposomal ¹	3 – 5 mg/kg/day	No change	No change	No change	No change															
Amikacin ^{1,2,3,4,5} (Use ideal BW; use adjusted BW in morbidly obese) See appendix for complete guidelines	<table><tr><td></td><td>CrCl >50</td><td>CrCl 40–50</td><td>CrCl 20–40</td><td>CrCl < 20</td></tr><tr><td>Conventional dosing</td><td>5 – 7.5 mg/kg q8h</td><td>5 – 7.5 mg/kg q12h</td><td>5 – 7.5 mg/kg q24h</td><td></td></tr><tr><td>High-dose extended-interval dosing</td><td>15 – 20 mg/kg q24h</td><td>15 mg/kg q24h</td><td>CrCl = 30: 15 mg/kg q48h CrCl < 30: Not recommended</td><td>5 mg/kg load, then by level</td></tr></table> Timing of levels: Draw trough 30 min prior to 4 th dose. Draw peak 30 min after infusion ends Once daily dosing: goal peak 25–50; goal trough <4. Consult Hartford Nephrogram Conventional dosing: goal peak 25–35 for various infections, 15–20 for UTI goal trough <5–8		CrCl >50	CrCl 40–50	CrCl 20–40	CrCl < 20	Conventional dosing	5 – 7.5 mg/kg q8h	5 – 7.5 mg/kg q12h	5 – 7.5 mg/kg q24h		High-dose extended-interval dosing	15 – 20 mg/kg q24h	15 mg/kg q24h	CrCl = 30: 15 mg/kg q48h CrCl < 30: Not recommended	5 mg/kg load, then by level			5 – 7.5 mg/kg post HD-only consult pharmacist	10 mg/kg load, then 7.5 mg/kg q24–48h consult pharmacist
	CrCl >50	CrCl 40–50	CrCl 20–40	CrCl < 20																
Conventional dosing	5 – 7.5 mg/kg q8h	5 – 7.5 mg/kg q12h	5 – 7.5 mg/kg q24h																	
High-dose extended-interval dosing	15 – 20 mg/kg q24h	15 mg/kg q24h	CrCl = 30: 15 mg/kg q48h CrCl < 30: Not recommended	5 mg/kg load, then by level																
Ampicillin (IV) ^{1,2,3,4,5}	1 – 2 g q4–6h Meningitis/encephalitis: 2 g q4h	same dose q6–12h Meningitis/encephalitis: 2 g q6h	same dose q12h Meningitis/encephalitis: 2 g q12h	1 g q12h Meningitis/encephalitis: 2 g q12h	1 – 2 g q6–8h Meningitis/encephalitis: 2 g q6h															
Ampicillin/sulbactam ^{1,2,3,4,5}	3 g q6h	CrCl >50: 3 g q6h CrCl <50: 2 g q12h	CrCl >10: 3 g q24h	3 g q12–24h Dose after HD on HD-days	3 g q6–8h															
Azithromycin (IV/PO) ¹	500 mg q24h	No change	No change	No change	No change															
Aztreonam ^{1,2,3,4} Severe: pseudomonas, meningitis	1 – 2 g q8h Severe: 2 g q6–8h	CrCl 10 – 30: 1 g q8h Severe: 1 g q6–8h	500 mg q8h Severe: 500 mg q6–8h	1–2g I.D. then 500mg q12h Severe: 1 – 2 g I.D. then 500 mg q8h	1 g q8h - or - 2 g q12h															
Caspofungin ¹ (Hepatic adjustment)	Consider 70 mg x 1, then 35 mg q24h if severe hepatic dysfunction (Child-Pugh score >7); 70 mg q24h if on phenytoin, atazanavir, other strong enzyme inducers	70 mg x 1, then 35 mg q24h		No change	No change															
Cefazolin ^{1,2,3,4,5,6}	CrCl >50: Mild/moderate: 1 g q8h Severe: 2 g q8h	CrCl 10–50: Mild/moderate: 1 g q12h Severe: 1 – 2 g q12h	1 g q24h	1 g q24h Dose after HD on HD-days	2 g q12h															
Cefepime ^{1,2,3,4,5,6}	<table><tr><td></td><td>CrCl >50</td><td>CrCl 30–50</td><td>CrCl <30</td></tr><tr><td>General</td><td>1 g q8h or 2 g q12h</td><td>1 g q12h or 2 g q24h</td><td>1 g q24h</td></tr><tr><td>CHS/PM</td><td>2 g q8h</td><td>2 g q12h</td><td>1 g q12h or 2 g q24h</td></tr></table>		CrCl >50	CrCl 30–50	CrCl <30	General	1 g q8h or 2 g q12h	1 g q12h or 2 g q24h	1 g q24h	CHS/PM	2 g q8h	2 g q12h	1 g q12h or 2 g q24h		General: 0.5 g q24h Severe infections/CHS/PM: 1 g q24h	General: 1 g q24h CHS/PM: 2 g q24h Give post HD on HD-days	General: 1 g q8h Severe infections: 2 g q12h			
	CrCl >50	CrCl 30–50	CrCl <30																	
General	1 g q8h or 2 g q12h	1 g q12h or 2 g q24h	1 g q24h																	
CHS/PM	2 g q8h	2 g q12h	1 g q12h or 2 g q24h																	
Ceftazidime ¹ (SHC Restriction)	500 mg q12h	CrCl 30–50: 400 mg q12h CrCl 10–30: 300 mg q12h	CrCl <10: 200 mg q12h	200 mg q12h Give post HD on HD-days	No Data															
Ceftioxcid ^{1,2,3,4}	1 – 2 g q24h Endocarditis, osteomyelitis: 2 g q24h Meningitis, E. faecalis endocarditis: 2 g q12h		No change	No Change Dose after HD on HD-days	No Change															
Ciprofloxacin (IV/PO) ^{1,2,3,4,5,6}	<table><tr><td></td><td>CrCl >50</td><td>CrCl 30 – 50</td><td>CrCl <30</td></tr><tr><td>General infections</td><td>400 mg IV q12h 500 mg PO q12h</td><td>same</td><td>400 mg IV q24h 500 mg PO q24h</td></tr><tr><td>Pseudomonas, severe</td><td>400 mg IV q8h 750 mg PO q12h</td><td>400 mg IV q6–12h 500 mg PO q12h</td><td>400 mg IV q24h 500 mg PO q24h</td></tr></table>		CrCl >50	CrCl 30 – 50	CrCl <30	General infections	400 mg IV q12h 500 mg PO q12h	same	400 mg IV q24h 500 mg PO q24h	Pseudomonas, severe	400 mg IV q8h 750 mg PO q12h	400 mg IV q6–12h 500 mg PO q12h	400 mg IV q24h 500 mg PO q24h			400 mg IV q24h 500 mg PO q24h Give post HD on HD-days	400 mg IV q12–24h 500 mg PO q12–24h			
	CrCl >50	CrCl 30 – 50	CrCl <30																	
General infections	400 mg IV q12h 500 mg PO q12h	same	400 mg IV q24h 500 mg PO q24h																	
Pseudomonas, severe	400 mg IV q8h 750 mg PO q12h	400 mg IV q6–12h 500 mg PO q12h	400 mg IV q24h 500 mg PO q24h																	
Clindamycin ^{1,2}	500 – 600 mg IV q8h 150 – 450 mg PO q8h	No change	No change	No change	No change															
Colistin (IV) ^{1,2,3,4,5} (SHC Restriction) (Use ideal BW in obese)	1.25 – 2.5 mg/kg q12h	1.25 – 2.5 mg/kg q12h 1.5–2.5 mg/kg q24h	1.5 mg/kg q24h	1.5 mg/kg q24h	2.5 mg/kg q12–24h															
Daptomycin ^{1,2,3,4,5,6} (SHC Restriction) (Use adjusted BW in obese)	Skin/Soft tissue: 4 – 6 mg/kg q24h Endocarditis/Osteomyelitis: 5 – 8 mg/kg q24h	CrCl < 30: Same dose q48h	Same dose q48h	Same dose q48h Give post HD on HD-days alt. 35 mg/kg post-HD only	4 – 8 mg/kg q48h															
Doxycycline (IV/PO) ¹	100 mg q12h	No change	No change	No change	No change															
Ertapenem (IV/IM) ¹	1 g q24h	CrCl <30: 500 mg q24h	500 mg q24h	500 mg q24h Give post HD on HD-days	1 g q24h															
Ethambutol (PO) ^{1,2} (Use ideal body weight)	Dose by ideal body weight: 40 – 55 kg: 800 mg q24h 50 – 75 kg: 1200 mg q24h 76 – 90 kg: 1600 mg q24h (max dose: 1600 mg/day)	Same dose q24–36h	Same dose q48h	Same dose post HD only	Same dose q24–36h															
Fidaxomicin (PO) (SHC Restriction)	200 mg q12h x 10 days	No change	No change	No change	No change															
Fluconazole (IV/PO) ^{1,2,3,4,5,6} Dose by indication. Load 800 mg for candidemia	200 – 400 mg q24h Severe/CHS: 800mg load, up to 800 mg q24h	100 – 200 mg (50% of normal dose) q24h	50 – 100 mg (25% of normal dose) q24h	Dose by indication 200 – 800 mg post HD only	400 – 800 mg q24h															

Antimicrobial Dosing Guide 2013

**Debbie L. Humphries, Marilyn E.
Scott, Sten H. Vermund**



Antimicrobial Dosing Guide 2013:

ISCCM Manual of RRT & ECMO in ICU Rajesh Chandra Mishra, Kanwalpreet Sodhi, Vivek Gupta, KC Prakash, 2023-02-24

PART I RRT Section SECTION 1 AKI and Introduction to RRT Introduction to Renal Replacement Therapy 1 Managerial Aspects of Setting Up Renal Replacement Therapy in Intensive Care Unit 2 Acute Kidney Injury Epidemiology and Causes SECTION 2 RRT Basic Principles 3 Principles of Renal Replacement Therapy Practical Applications 4 Types of Renal Replacement Therapy in ICU 5 Indications for Renal Replacement Therapy in ICU Renal and Nonrenal 6 Initiation of Renal Replacement Therapy SECTION 3 RRT Components 7 RRT Hardware Cannulas and Dialysis Membranes 8 CRRT Know the Machine 9 Dialysate Fluids and Replacement Fluids in Continuous Renal Replacement Therapy SECTION 4 Management during RRT 10 Sustained Low efficiency Extended Daily Dialysis in ICU 11 CRRT Prescription in ICU Patients 12 Anticoagulation in Continuous Renal Replacement Therapy 13 Transportation of Patients Who are on Continuous Renal Replacement Therapy 14 Monitoring during Continuous Renal Replacement Therapy 15 High volume CRRT 16 Switch Over From or Termination of Continuous Renal Replacement Therapy SECTION 5 Issues during RRT 17 Complications during Renal Replacement Therapy 18 Troubleshooting in Renal Replacement Therapy 19 Nutrition during Renal Replacement Therapy 20 Drug Dosing in Patients Receiving Renal Replacement Therapy SECTION 6 Renal Replacement Therapy Special Considerations 21 Dyselectrolytemia and Renal Replacement Therapy in Critically Ill Patients 22 Continuous Renal Replacement Therapy in Specific Situations Diseases 23 Renal Replacement Therapy and Pregnancy 24 Acute Peritoneal Dialysis in ICU 25 Renal Replacement Therapy in Poisonings Basic Principles 26 Hemoperfusion for the Treatment of Poisoning 27 Therapeutic Apheresis 28 Extracorporeal Therapies in Sepsis 29 Renal Replacement Therapy in Children 30 Quality Assurance for Renal Replacement Therapy 31 Multiple Choice Questions on Renal Replacement Therapy PART II ECMO Section SECTION 7 ECMO Basic Principle Extracorporeal Membrane Oxygenation Introduction 32 ECMO Definition Type and Variants 33 ECMO Physiology 34 Indications and Contraindications of Extracorporeal Membrane Oxygenation 35 Know the Extracorporeal Membrane Oxygenation Machine Circuit and Hardware SECTION 8 ECMO Component 36 Cannulation in Extracorporeal Membrane Oxygenation 37 Circuit Priming and ECMO Initiation 38 Extracorporeal Membrane Oxygenation Circuit Diagram SECTION 9 ECMO Administrative Issues 39 Development of ECMO Program 40 Communication Consent and Ethical Issues during ECMO 41 Cost Reduction Strategy during ECMO SECTION 10 Management during ECMO 42 Anticoagulation Management during Extracorporeal Membrane Oxygenation Heparin and Alternatives 43 Mechanical Ventilation in Patients Undergoing ECMO 44 Managing Pain Anxiety and Psychological Issues during Extracorporeal Membrane Oxygenation 45 Blood and Component Therapy during ECMO When and Why 46 Proning and Mobilization on ECMO 47 Monitoring during Extracorporeal Membrane Oxygenation 48 Procedures during ECMO Emergency and Nonemergency 49 ECMO Weaning Trial Off and Decannulation 50 Post Extracorporeal Membrane

Oxygenation 51 Extracorporeal Membrane Oxygenation and Sepsis in Intensive Care Unit SECTION 11 Extracorporeal Membrane Oxygenation Complication 52 Infection Control Issues during Extracorporeal Membrane Oxygenation 53 Managing Complication during Extracorporeal Membrane Oxygenation 54 Managing Left Ventricular Distension during VA ECMO 5

Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases John E. Bennett, MD, MACP, Raphael Dolin, MD, Martin J. Blaser, MD, 2014-08-28 After thirty five years Mandell Douglas and Bennett s Principles and Practice of Infectious Diseases 8th Edition is still the reference of choice for comprehensive global guidance on diagnosing and treating the most challenging infectious diseases Drs John E Bennett and Raphael Dolin along with new editorial team member Dr Martin Blaser have meticulously updated this latest edition to save you time and to ensure you have the latest clinical and scientific knowledge at your fingertips With new chapters expanded and updated coverage increased worldwide perspectives and many new contributors Mandell Douglas and Bennett s Principles and Practice of Infectious Diseases 8th Edition helps you identify and treat whatever infectious disease you see Get the answers to questions you have with more in depth coverage of epidemiology etiology pathology microbiology immunology and treatment of infectious agents than you ll find in any other infectious disease resource Find the latest diagnoses and treatments for currently recognized and newly emerging infectious diseases such as those caused by avian and swine influenza viruses Put the latest knowledge to work in your practice with new or completely revised chapters on influenza new pandemic strains new Middle East respiratory syndrome MERS virus probiotics antibiotics for resistant bacteria antifungal drugs new antivirals for hepatitis B and C Clostridium difficile treatment sepsis advances in HIV prevention and treatment viral gastroenteritis Lyme disease Helicobacter pylori malaria infections in immunocompromised hosts immunization new vaccines and new recommendations and microbiome Benefit from fresh perspectives and global insights from an expanded team of international contributors Find and grasp the information you need easily and rapidly with newly added chapter summaries These bulleted templates include diagnosis therapy and prevention and are designed as a quick summary of the chapter and to enhance relevancy in search and retrieval on Expert Consult Stay current on Expert Consult with a thorough and regularly scheduled update program that ensures access to new developments in the field advances in therapy and timely information Access the information you need easily and rapidly with new succinct chapter summaries that include diagnosis therapy and prevention Experience clinical scenarios with vivid clarity through a richly illustrated full color format that includes 1500 photographs for enhanced visual guidance

Critical Care Nephrology E-Book Claudio Ronco, Rinaldo Bellomo, John Kellum, Zaccaria Ricci, 2017-12-14 Comprehensive and clinically relevant the 3rd Edition of Critical Care Nephrology provides authoritative coverage of the latest advances in critical care procedures for patients with renal diseases or disorders Using common guidelines and standardized approaches to critically ill patients this multidisciplinary reference facilitates better communication among all physicians who care for critically ill patients suffering from kidney disease electrolyte and

metabolic imbalances poisoning severe sepsis major organ dysfunction and other pathological events Offers detailed discussions of different forms of organ support artificial organs infections acute illness occurring in chronic hemodialysis patients and much more Places a special emphasis on therapeutic interventions and treatment procedures for a hands on clinical reference tool Presents information clearly in a format designed for easy reference from basic sciences to clinical syndromes to diagnostic tools Covers special populations such as children diabetic patients and the elderly An exceptional resource for nephrologists intensivists surgeons or critical care physicians anyone who treats critically ill renal patients Shares a combined commitment to excellence lead by Drs Claudio Ronco Rinaldo Bellomo John Kellum and Zaccaria Ricci unparalleled leaders in this field Addresses key topics with expanded coverage of acute kidney injury stress biomarkers and sepsis including the latest developments on mechanisms and management Provides up to date information on extracorporeal therapies from new editor Dr Zaccaria Ricci Expert Consult™ eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures and references from the book on a variety of devices

Antimicrobial Stewardship Kerry LaPlante, Cheston Cunha, Haley Morrill, Louis Rice, Eleftherios Mylonakis, 2016-12-23 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 change 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 **Antimicrobials in Livestock**

2: Choices of Prevention and Treatment Lucie Pokludová, 2025-01-10 This second volume of the two volumes work Antimicrobials in Livestock offers an in depth look at the antimicrobials commonly used in veterinary medical care of the major food producing animals pigs poultry and cattle as well as horses bringing to readers attention also pharmacokinetic and pharmacodynamic characteristics of these drugs The individual chapters also provide a brief description of preventive tools as well as alternatives to conventional treatment options that could help minimise the use of antibiotics and combat the problems caused by increasing antimicrobial resistance The focus is on Europe without neglecting the global context The complete two volumes provide an extensive review of various aspects related to the use of antimicrobials in veterinary medicine Volume I explores the use of antimicrobials in animals from the regulatory practical as well scientific perspective and is targeted on EU policies and regulatory surroundings providing also information on risks linked to the extensive use of antibiotics in livestock and highlighting importance of methods of laboratory testing for susceptibility and resistance starting

from phenotype tests and moving towards genetic analysis results providing molecular biology aspects Each chapter confronts the reader with open questions to stimulate further discussions and future research on the topics covered Volume II more specifically discusses medical aspects necessary for targeted responsible and evidence based use of antimicrobials in cattle pigs poultry and horses as well as pharmacokinetics and pharmacodynamics as two of the most important factors necessary for proper dosing schedule setting of effective treatment While the preface of the first volume started with questions Volume II s preface ends with them having the intention to provoke more in depth and innovative thinking and might be the start of a new era which is needed to keep antimicrobials working and available for the future generations both in human and veterinary medicine

Irwin & Rippe's Manual of Intensive Care Medicine Richard S. Irwin, Craig M. Lilly, James M. Rippe, 2014 This reference text addresses recent developments including the larger role for ultrasound in critical care medicine It begins with a section on procedures and techniques followed by 15 sections covering organ system problems as well as palliative care legal and ethical issues and transplantation

Critical Care Medicine E-Book Joseph E. Parrillo, R. Phillip Dellinger, 2018-11-12 Now completely revised to bring you up to date with the latest advances in the field Critical Care Medicine Principles of Diagnosis and Management in the Adult 5th Edition delivers expert practical guidance on virtually any clinical scenario you may encounter in the ICU Designed for intensivists critical care and pulmonology residents fellows practicing physicians and nurse practitioners this highly regarded text is clinically focused and easy to reference Led by Drs Joseph Parrillo and Phillip Dellinger the 5th Edition introduces numerous new authors who lend a fresh perspective and contribute their expertise to that of hundreds of top authorities in the field Includes new chapters on current applications of bedside ultrasound in the ICU both diagnostic and procedural mechanical assist devices and extra corporeal membrane oxygenation ECMO Contains new administrative chapters that provide important information on performance improvement and quality length of stay operations working with the Joint Commission and more Features new videos and images that provide visual guidance and clarify complex topics Keeps you up to date with expanded chapters on echocardiography in the ICU and valvular heart disease including TAVR Includes separate chapters on mechanical ventilation of obstructive airway disease and acute respiratory distress syndrome ARDS including the many recent changes in approach to positive end expiratory pressure setting in ARDS Covers key topics such as patient ventilator synchrony and non invasive ventilation for treating chronic obstructive pulmonary disease patients with acute respiratory failure Reflects the recent literature and guidance on amount of fluids type of fluid vasopressor selection mean arterial pressure target and decision on steroid use in septic shock Provides questions and answers in every chapter perfect for self assessment and review 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

ICU Quick Drug Guide Jennifer Pai Lee, 2020-07-14 Offering essential evidence based practice guidelines specifically for the critical care setting ICU Quick Drug Guide contains up to date information in a quick

access format This portable handbook provides fast accurate drug therapy information needed at the point of care including expert advice throughout to help clinicians determine optimal pharmacological therapy Offers a quick summary of current clinical guidelines to experienced clinicians while providing a simplified focused guide to all entry level clinicians Covers the wide variety of issues seen in the ICU including sepsis and septic shock venous thromboembolism acute heart failure anaphylaxis arrhythmias asthma and COPD pain infections pancreatitis and liver failure stroke and many more Begins each topic with a brief discussion of the disease state followed by drug tables that compare and contrast different treatment regimens including pharmacokinetics pharmacodynamics drug interactions contraindications and hepatic renal dosing Contains clinical pearls organized by the top disease states seen in the critical acute care setting Provides practical and essential drug information from Dr Jennifer Pai Lee a clinical pharmacist with expertise in critical care and pharmacokinetics pharmacodynamics 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

Model-Based Evaluation of Antimicrobial Agents in

Children Wei Zhao,Johannes Nicolaas Van Den Anker,2021-10-01 Topic Editor Johannes N van den Anker is the Chief Medical Officer at Reveragen Biopharma as well as holding his positions at academic institutions The other Topic Editor declares no competing interests with regard to the Research Topic subject

Shackelford's Surgery of the Alimentary Tract, E-Book Charles J. Yeo,2017-12-18 For more than 60 years Shackelford's Surgery of the Alimentary Tract has served

as the cornerstone reference in this fast moving field With comprehensive coverage of all aspects of GI surgery the 8th Edition by Drs Charles J Yeo Steven R DeMeester David W McFadden Jeffrey B Matthews and James W Fleshman offers lavishly illustrated authoritative guidance on endoscopic robotic and minimally invasive procedures as well as current medical therapies Each section is edited by a premier authority in GI surgery chapters reflect key topics and are written by a who's who of international experts in the field It's your one stop resource for proven systematic approaches to all relevant adult and pediatric GI disorders and operations Features an abundance of beautifully detailed intraoperative and laparoscopic photographs as well as radiographs and line drawings to enhance and clarify the text Presents essential information such as lists of differential diagnoses in tabular format for quick reference Discusses recent major advances in minimally invasive surgery and robotic surgery personalized therapy based on genomics and proteomics and new pharmacologic treatments of various GI diseases Includes all new information on laparoscopy for rectal cancer sacral nerve stimulation for incontinence and constipation management of Crohn's disease and ulcerative colitis advances in immunosuppression for transplant patients and new therapies for inflammatory bowel disease Expert Consult™ eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures and references from the book on a variety of devices

Brenner and Rector's The Kidney E-Book Alan S. L. Yu,Glenn M. Chertow,Valerie Luyckx,Philip A. Marsden,Karl Skorecki,Maarten W. Taal,2019-09-25 Put the world's most well known kidney reference to

work in your practice with the 11th Edition of Brenner Rector's The Kidney This two volume masterwork provides expert well illustrated information on everything from basic science and pathophysiology to clinical best practices Addressing current issues such as new therapies for cardiorenal syndrome the increased importance of supportive or palliative care in advanced chronic kidney disease increasing live kidney donation in transplants and emerging discoveries in stem cell and kidney regeneration this revised edition prepares you for any clinical challenge you may encounter Extensively updated chapters throughout providing the latest scientific and clinical information from authorities in their respective fields Lifespan coverage of kidney health and disease from pre conception through fetal and infant health childhood adulthood and old age Discussions of today's hot topics including the global increase in acute kidney injury chronic kidney disease of unknown etiology cardiovascular disease and renal disease and global initiatives for alternatives in areas with limited facilities for dialysis or transplant New Key Points that represent either new findings or pearls of information that are not widely known or understood New Clinical Relevance boxes that highlight the information you must know during a patient visit such as pertinent physiology or pathophysiology Hundreds of full color high quality photographs as well as carefully chosen figures algorithms and tables that illustrate essential concepts nuances of clinical presentation and technique and clinical decision making A new editor who is a world renowned expert in global health and nephrology care in underserved populations Dr Valerie A Luyckx from University of Z rich Board review style questions to help you prepare for certification or recertification 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

Antibiotic Pharmacokinetic/Pharmacodynamic Considerations in the Critically Ill

Andrew A. Udy, Jason A. Roberts, Jeffrey Lipman, 2017-09-18 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 cognisant 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

Handbook of Critical Care Nephrology

Jay L. Koyner, Joel Topf, Edgar Lerma, 2021-04-17 Designed specifically for nephrologists and trainees practicing in the ICU Handbook of Critical Care Nephrology is a portable critical care reference with a unique and practical nephrology focus Full color illustrations numerous algorithms and intuitively arranged contents make this manual a must have resource for nephrology in today's ICU

Renal Pharmacotherapy Larry K. Golightly, Isaac Teitelbaum, Bonita A. Simendinger, Tyree H. Kiser, Gerard R. Barber, Nancy M. Stolpman, 2021-09-24 To promote effectiveness and minimize

possible toxicity the dosage of certain medications must be adjusted in persons with compromised kidney function Failure to enjoin appropriate dosage adjustments in patients with abnormal or rapidly changing kidney function continues to lead to reports of drug toxicity involving a broad array of renally eliminated medications This updated edition captures nearly 200 new drugs that have been approved by the FDA since the initial publication of Renal Pharmacotherapy It also covers new evidence that has emerged regarding the need to adjust dosage of certain older medications that are eliminated by the kidneys Additionally it presents new data that are being continuously derived in the areas of patient specific dose individualization for drugs of all types Comprehensive convenient and evidence based this reference closes several identified knowledge gaps and will continue to be the leading collection of dosage recommendations for patients with compromised kidney function

Infectious Diseases Saif ul Islam,2023-04-29 Infectious Diseases Smart Study Guide for Medical Students Residents Physicians and Clinical Pharmacists attempts to consolidate knowledge and information into a step by step process that would be easy to understand remember and apply in a clinical setting High yield information presented in this book is necessary for medical students and residents This book has provided information for all disciplines working in infectious diseases whether students residents physicians pharmacists or nurses The book is organized for quick and easy to retrieve information for all professionals Medical and pharmacotherapeutic information about infectious diseases are combined into one book Consolidates knowledge and information on infectious diseases Presents content that is easy to understand remember and apply in a clinical setting High yield information for students and residents

Infectious Diseases and Antimicrobial Stewardship in Critical Care Medicine Cheston B. Cunha,Burke A. Cunha,2020-07-12 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 Uniquely critical 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

Brenner and Rector's The Kidney E-Book Alan S. L. Yu, Glenn M. Chertow, Valerie Luyckx, Philip A. Marsden, Karl Skorecki, Maarten W. Taal, 2019-09-25 Put the world's most well known kidney reference to work in your practice with the 11th Edition of Brenner Rector's The Kidney This two volume masterwork provides expert well illustrated information on everything from basic science and pathophysiology to clinical best practices Addressing current issues such as new therapies for cardiorenal syndrome the increased importance of supportive or palliative care in advanced chronic kidney disease increasing live kidney donation in transplants and emerging discoveries in stem cell and kidney regeneration this revised edition prepares you for any clinical challenge you may encounter Extensively updated chapters throughout providing the latest scientific and clinical information from authorities in their respective fields Lifespan coverage of kidney health and disease from pre conception through fetal and infant health childhood adulthood and old age Discussions of today's hot topics including the global increase in acute kidney injury chronic kidney disease of unknown etiology cardiovascular disease and renal disease and global initiatives for alternatives in areas with limited facilities for dialysis or transplant New Key Points that represent either new findings or pearls of information that are not widely known or understood New Clinical Relevance boxes that highlight the information you must know during a patient visit such as pertinent physiology or pathophysiology Hundreds of full color high quality photographs as well as carefully chosen figures algorithms and tables that illustrate essential concepts nuances of clinical presentation and technique and clinical decision making A new editor who is a world renowned expert in global health and nephrology care in underserved populations Dr Valerie A Luyckx from University of Zurich Board review style questions to help you prepare for certification or recertification 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

Critical Care Medicine Review: 1000 Questions and Answers Abraham Sonny, Edward A Bittner, Ryan J. Horvath, Sheri Berg, 2019-09-16 Covering all four critical care board exams anesthesiology surgery internal medicine and neurology Critical Care Medicine Review 1000 Questions and Answers prepares you for exam success as well as clinical

practice in today's ICU This full color easy to use review tool provides challenging case studies relevant images multiple choice board style questions rationales for correct and incorrect answers and references for every question Edited by instructors of anesthesia and critical care from Harvard Medical School and Massachusetts General Hospital this comprehensive resource is an ideal study guide for critical care fellows recertifying practitioners and CCRNs Nutrition and Infectious Diseases Debbie L. Humphries, Marilyn E. Scott, Sten H. Vermund, 2020-12-10 This comprehensive and user friendly volume focuses on the intersection between the fields of nutrition and infectious disease It highlights the importance of nutritional status in infectious disease outcomes and the need to recognize the role that nutrition plays in altering the risk of exposure and susceptibility to infection the severity of the disease and the effectiveness of treatment Split into four parts section one begins with a conceptual model linking nutritional status and infectious diseases followed by primers on nutrition and immune function that can serve as resources for students researchers and practitioners Section two provides accessible overviews of major categories of pathogens and is intended to be used as antecedents of pathogen focused subsequent chapters as well as to serve as discrete educational resources for students researchers and practitioners The third section includes five in depth case studies on specific infectious diseases where nutrition infection interactions have been extensively explored diarrheal and enteric disease HIV and tuberculosis arboviruses malaria and soil transmitted helminths The final section addresses cross cutting topics such as drug nutrient interactions co infections and nutrition infection and climate change and then concludes by consolidating relevant clinical and public health approaches to addressing infection in the context of nutrition and thus providing a sharp focus on the clinical relevance of the intersection between nutrition and infection Written by experts in the field Nutrition and Infectious Diseases will be a go to resource and guide for immunologists clinical pathologists sociologists epidemiologists nutritionists and all health care professionals managing and treating patients with infectious diseases

Perioperative Management, An Issue of Surgical Clinics of North America Paul J. Schenarts, 2015-06-03 Perioperative Management is reviewed extensively in this important Surgical Clinics of North America issue Articles include Cardiac risk stratification and protection Prevention of pulmonary complications Perioperative nutrition Prophylactic antibiotics and prevention of post operative infections DVT and VTE prophylaxis Post operative pain control and sedation End points of resuscitation Optimal glucose management in the perioperative period Essentials of sepsis management Transfusion and management of surgical patients with hematologic disorders Perioperative management of the obese patient Perioperative management of the elderly patient Perioperative management in the patient with substance abuse Management of the pregnant patient undergoing general surgical procedures Advanced directives living wills and futility and more

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