

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/valacyclovir 10 mg/kg q8h	Same dose CrCl 20–50: q12h CrCl 10–20: q24h	IVIG: 2.5 mg q24h HSV: acyclovir/valacyclovir 5 mg/kg q24h	IVIG: 2.5 mg/kg q24h HSV: acyclovir/valacyclovir 5 mg/kg q24h Dose after HD on HD-days	IVIG: 5 – 7.5 mg/kg q24h HSV: acyclovir/valacyclovir 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 3x 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 3x 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 3x 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 35–60; goal trough <4. Consult Hartford Nomogram 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 No change	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 q6h Severe: 1 g q6–8h	500 mg q6h Severe: 500 mg q6–8h	1–2g I.D. then 500mg q12h Severe: 1 – 2 g I.D. then 500 mg q6h	1 g q6h - 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: 1 g q6h Mild/moderate: 1 g q8h Severe: 2 g q6h	CrCl 10–50: 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 q6h</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 q6h	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 q6h 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 q6h	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															
Ceftiofur ^{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															
Cloxacillin (IV/PO) ^{1,2,3,4,5,6}	<table><tr><td></td><td>CrCl >30</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 q6h 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 >30	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 q6h 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 >30	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 q6h 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 q6h 150 – 450 mg PO q6h	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) ¹ (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

Lucie Pokludová



Antimicrobial Dosing Guide 2013:

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 *ISCCM Manual of RRT and ECMO in ICU* Rajesh Chandra Mishra, Kanwalpreet Sodhi, KC Prakash, Poonam Malhotra Kapoor, 2020-02-28 [Handbook of Drugs in Intensive Care](#) Henry Paw, Rob Shulman, 2019-07-17 This essential new edition provides current information on how to use drugs safely and effectively in the intensive care setting

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 **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

Drug Dosing in Obesity Syed Tabish R. Zaidi,Jason A.

Roberts,2016-09-26 This book provides an up to date review on antimicrobials dosing in obese patients including practice recommendations for clinical use The book is written by a group of doctors and pharmacists working in infectious diseases practice and research The introductory chapter outlines the important physiological changes in obesity including factors affecting the dosing of antimicrobials in obese patients The introductory chapter is followed by ten chapters covering the major classes of antibiotics antifungals and antivirals Each chapter briefly discusses the pharmacokinetics changes related to obesity and a summary of the relevant up to date literature Specific dosing recommendations are provided for each class supplemented by real life examples as clinical cases that are included as an appendix to the book The book is a useful resource for clinicians students and researchers needing up to date information on antimicrobial dosing in obese patients Doctors pharmacists nurses working in hospital settings and students of health courses medical pharmacy and nursing students will find this book particularly useful

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

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 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

Reviewing **Antimicrobial Dosing Guide 2013**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Antimicrobial Dosing Guide 2013**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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Antimicrobial Dosing Guide 2013 Introduction

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