

UC DAVIS MEDICAL CENTER ADULT ANTIMICROBIAL FORMULARY

** not all inclusive for all oral agents**

<u>ANTIBIOTIC</u>	<u>USUAL ** ADULT DOSE</u>	<u>ADULT MAXIMUM DOSE</u>	<u>ANTIBIOTIC COST/DAY*</u>	<u>RESTRICTIONS</u>
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* Cost of Drug Only at Usual Dose

**Usual Adult Dose: To treat moderately severe or serious infections in an adult (70Kg) patient

<u>AMINOGLYCOSIDES</u>				Aminoglycoside Maintenance Dosing Recommendations Per Pharmacy
Amikacin Gentamicin Tobramycin	15-22mg/kg q24h 5-7mg/kg q24h 5-7 mg/kg q24h	8 hr level 5-15 mg/L 8 hr level 2-5mg/L 8 hr level 2-5mg/L	\$ 8 \$ 20 \$ 5	Standard aminoglycoside of choice Use for confirmed or suspected <i>Pseudomonas aeruginosa</i> infection
<u>PENICILLINS</u>				
Ampicillin Nafcillin Penicillin G Ampicillin/sulbactam (Unasyn) Piperacillin/tazobactam (Zosyn®)	2gm q4h 2gm q4h 2 million units q4h 1.5-3gm q6h 3.375gm q6h	12 grams/day 12 grams/day 24 million units/day 3 grams q6h 4.5 grams q6h	\$ 20 \$ 40 \$ 55 \$ 15 \$ 25	High-risk animal or human bites, or I.D. authorization. Complicated intra-abdominal infection in patient with recent antibiotic exposure or recent abdominal surgery, or hemodialysis patients requiring antipseudomonal therapy, or prophylaxis for hepato-pancreato-biliary procedures or I.D. authorization.
<u>CEPHALOSPORINS</u>				
Cefazolin Ceftriaxone (Rocephin®) Ceftazidime (Fortaz®) Ceftazidime/avibactam (Avycaz™) Cefepime (Maxipime®) Cefiderocol (Fetroja®) Ceftozolane/tazobactam (Zerbaxa™)	1 gm q8h 1gm q24h (pneumonia) 1gm q8h 2.5 gm q8h 1gm q8h 2gm q8h 1.5 gm q8h	100 mg.kg/day 4gms/day 6gms/day 7.5 gms / day 6gms/day 6gm/day 4.5 gms / day	\$ 5 \$ 5 \$ 20 \$ 1,077 \$ 12 \$ 1,025 \$675.95	ID consult required. Reserved for patients without other treatment options. Preferred agent for nosocomial infection in ICU patients, febrile neutropenia ID consult required. Reserved for patients without other treatment options. ID consult required. Reserved for patients without other treatment options.
<u>FLUOROQUINOLONES</u>				
Levofloxacin (Levaquin®) IV/PO	500mg q24h	750mg q24h	\$ 4	Empiric treatment of CAP in patients with severe beta-lactam allergy, Urology or nephrology for UTIs, Surgical prophylaxis for colorectal surgery or hysterectomy in patients with severe beta-lactam allergy, Surgical prophylaxis (48 hours) for LVAD placement, SBP prophylaxis in patients with sulfa allergy, Prophylaxis in BMT patients or acute leukemia patients, Prophylaxis in patients unable to receive timely vaccination prior to eculizumab, or I.D. authorization

Acyclovir	5mg/kg q8h	10mg/kg q8h	\$ 20	
Azithromycin (Zithromax®)	500mg q24h	500mg q24h	\$ 7	
Aztreonam (Azactam®)	1gm q8h	8gms/day	\$ 200	Alternative choice for severe beta-lactam allergy in ICU pts with CAP
Clindamycin (Cleocin®)	600mg q8h	40mg/kg/day	\$ 40	
Daptomycin (Cubicin®)	4-6mg/kg/day	6mg/kg/day	\$ 55-110	I.D. authorization required
Doxycycline	100mg q12h	200mg/day	\$ 40	
Ertapenem	1gm q24h	1 gm q24h	\$ 40	I.D. authorization required
Erythromycin (IV)	500mg q 6h	4gms/day	\$ 480	
Fidaxomicin	200mg BID	200mg BID	\$ 188	I.D. authorization required
Imipenem-cilastatin	500mg q6h	1 gm q6h	\$ 960 - 1,930	I.D. authorization required
Oral vancomycin (liquid)	125mg q6h	125mg q6h	\$ 3	
Oral vancomycin (capsules)	125mg q6h	125mg q6h	\$ 27	
Ganciclovir	5mg/kg q 24h	10mg/kg/day	\$ 90	AIDS patients with CMV Retinitis, solid organ transplantation
Meropenem (Merrem®)	500mg q 6h	1 gm q8h	\$ 30	I.D. authorization required
Linezolid (Zyvox®) IV/PO	600mg q12h	600mg q12h	\$ 32/5(IV/PO)	I.D. authorization required
Metronidazole	500mg q 12h	500mg q6h	\$ 5	
Pentamidine	4mg/kg/day	4mg/kg/day	\$ 130	
Trimethoprim/Sulfamethoxazole	5mg (TMP)/kg q12h	15mg(TMP) /kg/day	\$ 70	
Dalbavancin	1,500 mg x1	1,500 mg x1	\$ 2,700 \$ 1,889.37 340B	I.D. authorization required
Vancomycin	15 – 20 mg/kg (loading dose, total body weight, max 2,000 mg)	AUC goal dosing 400 – 600 mg*h/L	\$ 20	

ANTI-FUNGALS

Amphotericin B deoxycholate	0.5-1mg/kg/day	1.5mg/kg/day	\$ 67	I.D. consult required for intrathecal or IV administration
Amphotericin B Liposomal (Ambisome®)	2.5mg/kg/day	5mg/kg/day	\$ 567	I.D. consult required
Fluconazole (Diflucan®)	400mg q24h		\$ 8	100 – 200 mg doses for thrush
Micafungin (Mycamine®)	100mg	150mg	\$ 68	
Posaconazole (Noxafil) PO Delayed release tablet	300mg q12h x1 day, then 300mg q24h	300mg q24h	\$100 \$ 622 (IV) loading dose one day \$ 322 (IV) daily	Restricted to use in BMT/AML patients requiring antifungal prophylaxis, or I.D. consult

Voriconazole (Vfend®)	6mg/kg q12h x2 doses, then 4mg/kg q12h	same	\$ 42/20 (IV/PO)	NPO BMT & AML patients requiring antifungal prophylaxis, or I.D. consult
Isavuconazole (Cresemba®) IV/PO	372 mg q8h x2 days, then 372 mg daily	372mg q24h	\$ 1,404 loading dose over 2 days \$ 253 (IV) daily \$ 828 (PO) loading dose over 2 days \$ 138 (PO) daily	NPO BMT & AML patients requiring antifungal prophylaxis, or I.D. consult

Updated by the Antibiotic Subcommittee Oct 2023 approved by the UC Davis Medical Center P&T Committee March 2024.