

UNIVERSITY of CALIFORNIA, SAN DIEGO MEDICAL CENTER	UCSD MEDICAL CENTER Department of Pharmacy				
DOSAGE GUIDELINES FOR ADULT PATIENTS WITH RENAL IMPAIRMENT**					
DRUG	CLcr > 50 mL/min	CLcr 30-50 mL/min	CLcr 10-30 mL/min	IHD	PD
<b>ANTIMICROBIALS</b>					
ACYCLOVIR (IV) **use IBW **					
- HSV	5 mg/kg q 8 h	5 mg/kg q 12 h	5 mg/kg q 24 h	2.5 mg/kg q 24 h	2.5 mg/kg q 24 h
- HSV Encephalitis/Zoster	10 mg/kg q 8 h	10 mg/kg q 12 h	10 mg/kg q 24 h	5 mg/kg q 24 h	5 mg/kg q 24 h
ACYCLOVIR (PO)					
- HSV	200 mg 5x q 24 h or 400 mg q 12 h	200 mg 5x q 24 h or 400 mg q 12 h	200 mg 5x q 24 h or 400 mg q 12 h	200 mg q 12 h	200 mg q 12 h
- HSV Encephalitis/Zoster	800 mg 5x q 24 h (q 4 h)	800 mg 5x q 24 h (q 4 h)	800 mg q 8 h	800 mg q 12 h	800 mg q 12 h
AMIKACIN AdjWt	15-20 mg/kg q24h	15-20 mg/kg q36h	15-20 mg/kg q48h CLcr	7.5 - 10 mg/kg x1. Check serum concentrations 2h post first dose and random day 3 am	7.5 - 10 mg/kg x1. Check serum concentrations 2h post first dose and random day 3 am
AMPICILLIN (IV)	1-2 g q 4-6 h	1-2 g q 6h	1-2 g q 12 h	1-2 g q 12 h	250 mg - 1 g q 12 h
AMPICILLIN / SULBACTAM	3 g q 6 h	3 g q 6 h	CLcr 15-30 mL/min: 3 g q 12 h CLcr < 15 mL/min: 3 g q 24 h	3 g q 24 h -- give after hemodialysis	
AMOXICILLIN	500 mg q 8 h	500 mg q 8 h	500 mg q 12 h	250 - 500 mg q 12 h	250 - 500 mg q 12 h
AMOXICILLIN - CLAVULANIC	500mg q8h OR 875mg q12h	500mg q8h OR 875mg q12h	250 - 500 mg q12 h	250 - 500 mg q 24 h	250 - 500 mg q 24 h
AZTREONAM	1-2 g q 8 h	1 g q 8-12 h	1 g q 12 h	1 g q 24 h	1 g q 24 h
CEFAZOLIN	1 g q 8 h	1 g q 8 h	1 g q 12 h	1 g q24h or 2 g post dialysis three times weekly	1 g q 24 h
CEFEPIME	1-2 g q 8-12 h	1-2 g 12-24 h	1-2 g q 24 h	1 g q 24 h	1 g q 48 h
CEFOTETAN	1-2 g q 12 h	1-2 g q 12 h	1-2 g q 24 h	1-2 g q 48 h	0.5-1 g q 24 h
CEFPODOXIME	100-400 mg q 12h	100-400 mg q 12h	100-400 mg q 24 h	100-400 mg post dialysis 3x/week	100-400 mg q 48 h
CEFTAZIDIME	1-2 g q 8 h	1-2 g q 12 h	1 q 24 h	1 g q 24 h or 2 g post dialysis 3x/week	1 g q 24 h
CEFTAROLINE	600 mg q 8-12 h	400 mg q 8-12 h	300 q 8-12 h	200 - 300 mg q 12 h	No data
CEFUROXIME					
- CT Prophylaxis	1500 mg q 12 h	1500 mg q 12 h	1500 mg q 24 h	750 mg q 24 h	750 mg q 24 h
CIPROFLOXACIN (IV) AdjWt	400 mg q 8-12 h	400 mg q 12 h	400 mg q 24 h	400 mg q 24 h	400 mg q 24 h
CIPROFLOXACIN (PO)	500-750 mg q 12 h	500 mg q 12 h	250 - 500 mg q 24 h	250-500 mg q 24 h	250-500 mg q 24 h
CIPROFLOXACIN (PO for TB)	750-1000 mg q 24 h	750-1000 mg q 24 h	750 mg q 24 h	750 mg q 24 h	750 mg q 24 h
CLARITHROMYCIN	500 mg q 12 h	500 mg q 12 h	250 mg q 12 h	250 mg q 24 h	250 mg q 24 h
COTRIMOXAZOLE (IV & PO) AdjWt	(based on trimethoprim)				
- Systemic GNR	5 mg/kg/dose q 12 h	2.5-3.75 mg/kg/dose q 12 h	2.5-3.75 mg/kg/dose q 12 h	2.5-5 mg/kg/dose q 24 h	2.5-5 mg/kg/dose q 24 h
- PCP	5 mg/kg/dose q 8 h	3.75 mg/kg/dose q 8 h	3.75 mg/kg/dose q 8 h	2.5-5 mg/kg/dose q 12 h	2.5-5 mg/kg/dose q 12 h
- UTI (PO)	1 DS tab q 12 h	1 DS tab q 12 h	1 DS tab q 12 h	1 DS tab q 24 h	1 DS tab q 24 h
COLISTIMETHATE IBW	2.5 mg/kg q 12 h	1.5-2 mg/kg q 12 h	0.5-1 mg/kg q 12 h	50 mg q12h	1.5 mg/kg q 48 h
CYCLOSERINE IBW	7.5 mg/kg q 12h	7.5 mg/kg q 12-24 h	7.5 mg/kg q 24 h	7.5 mg/kg q 24 h	Do not use.
DAPTOMYCIN TBW	4-10 mg/kg q24h	4-10 mg/kg q24h	4-10 mg/kg q48h	4-10 mg/kg q48h	4-10 mg/kg q48h
ERTAPENEM	1000 mg q24h	1000 mg q24h	500 mg q 24 h	500 mg q 24 h	500 mg q 24 h
ETHAMBUTOL IBW	15 mg/kg q 24 h	15 mg/kg q 24 h	10-15 mg/kg q 24 h	15 mg/kg q 48 h	15 mg/kg q 48 h
FLUCONAZOLE (IV&PO) TBW	100-400 mg q 24 h	100-400 mg q 48 h	100-200 mg q 48 h	100-400 mg post dialysis 3x/week	200 mg q 24-48 h
FLUCYTOSINE * IBW					
- Crypto Meningitis (HIV)	CLcr > 80 mL/min: 25 mg/kg q6h. CLcr 40-80 mL/min: 25 mg/kg q8h	CLcr 20-40 mL/min: 25 mg/kg q12h	CLcr 10-20 mL/min: 25 mg/kg q24h. CLcr < 10 mL/min: 25 mg/kg q48-72h	25 mg/kg after each dialysis or typically TIW	CONSULT PHARMACIST***
- Crypto Meningitis (non-HIV)	CLcr > 80 mL/min: 37.5 mg/kg q6h. CLcr 40-80 mL/min: 37.5 mg/kg q8h	CLcr 20-40 mL/min: 37.5 mg/kg q 12h	CLcr 10-20 mL/min: 37.5 mg/kg q24h. CLcr < 10 mL/min: 37.5 mg/kg q48-72h	37.5 mg/kg after each dialysis or typically TIW	CONSULT PHARMACIST***
Foscarnet - Induction TBW	CP Online	CP Online	CP Online	45-60 mg/kg after each IHD session	CONSULT PHARMACIST***
Foscarnet -Maintenance TBW	CP Online	CP Online	CP Online	45-60 mg/kg after each IHD session	CONSULT PHARMACIST***
GANCICLOVIR (IV) - Induction AdjWt	CLcr >70 mL/min: 5 mg/kg q 12 h CLcr 50-69 mL/min: 2.5 mg/kg q12h	2.5 mg/kg q 24 h	1.25 mg/kg q 24 h	1.25 mg/kg 3x/wk after dialysis	CONSULT PHARMACIST***
Ganciclovir (IV) - maintenance = 1/2 induction dose					



DOSAGE GUIDELINES FOR ADULT PATIENTS WITH RENAL IMPAIRMENT\*\*

DRUG	CLcr > 50 mL/min	CLcr 30-50 mL/min	CLcr 10-30 mL/min	IHD	PD
GANCICLOVIR (PO) Prophylaxis	1000 mg q 8 h	500 mg q 12 h	500 mg q 24 h	500 mg 3x/week after dialysis	CONSULT PHARMACIST***
GENTAMICIN AdjWt	5-7 mg/kg q24h	5-7 mg/kg q36h	5-7 mg/kg q48h	2.5 - 3 mg/kg x1. Check serum concentrations 2h post first dose and random day 3 am	2.5 - 3 mg/kg x1. Check serum concentrations 2h post first dose and random day 3 am
IMIPENEM	250-1000 mg q 6 h	500-750 mg q 8 h	500 mg q 8-12 h	250-500 mg q 12 h	250-500 mg q 12 h
MEROPENEM	500-1000 mg q 8 h	500-1000 mg q 12 h	500 mg q 12 h	500 mg q 24 h	500 mg q 24 h
METRONIDAZOLE (IV & PO)	500 mg q 8 h	500 mg q 8 h	500 mg q 8 h	500 mg q 12 h	500 mg q 12 h
PENICILLIN	2-3 million units q 4-6 h	1-2 million units q 4-6 h	1-2 million units q 6 h	1-2 million units q 6 h	1-2 million units q 6 h
PIPERACILLIN	4 g q 8 h	4 g q 8 h	4 g q 12 h	2 g q 8 h	2 g q 8 h
PIPERACILLIN/TAZOBACTAM (30-min infusion)	3.375 g q 6 h	3.375 g q 6 h	CLcr ≥20 mL/min: 3.375 g q8h CLcr <20 mL/min: 3.375 q 12h (prefer <20 mL/min over 4hrs)	3.375 g q 12 h	3.375 g q 12 h
PIPERACILLIN/TAZOBACTAM (4-hour infusion)	3.375 g q 8 h	3.375 g q 8 h	CLcr ≥20 mL/min: 3.375 g q8h CLcr <20 mL/min: 3.375 g q12h	3.375 q 12h over 30 min.	3.375 q 12h over 30 min.
PYRAZINAMIDE IBW	25-30 mg/kg q 24 h NTE 2.5 g q 24 h	25-30 mg/kg q 24 h NTE 2.5 g q 24 h	25-30 mg/kg q 24 h NTE 2.5 g q 24 h	25-30 mg/kg post dialysis 3x/week	
STREPTOMYCIN AdjWt	15 mg/kg q 24 h	15 mg/kg q 48 h	15 mg/kg q 72 h	15 mg/kg twice weekly	15 mg/kg twice weekly
TOBRAMYCIN AdjWt	5-7 mg/kg q24h	5-7 mg/kg q36h	5-7 mg/kg q48h	2.5 - 3 mg/kg x1. Check serum concentrations 2h post first dose and random day 3 am	2.5 - 3 mg/kg x1. Check serum concentrations 2h post first dose and random day 3 am
VALACYCLOVIR					
- Varicella	1 g q 8 h	1 g q 12 h	1 g q 24 h	500 mg q 24 h	500 mg q 48 h
- HSV	1 g q 12 h	1 g q 12 h	1 g q 24 h	500 mg q 24 h	500 mg q 48 h
VALGANCICLOVIR					
- Treatment	900 mg q 12 h	450 mg q 12 h	450 mg q 24 h	200 mg oral solution three times weekly	CONSULT PHARMACIST***
- Prophylaxis	900 mg q 24 h	450 mg q 24 h	450 mg two times a week	100 mg oral solution three times weekly	CONSULT PHARMACIST***
VANCOMYCIN AdjWt	30 - 60 mg/kg/day q6-12h	15-30 mg/kg/day q12-24h	7.5 - 15 mg/kg/day q24-48h	20-25 mg/kg x1. Check serum concentrations 2h post first dose and random day 3 am	20-25 mg/kg x1. Check serum concentrations 2h post first dose and random day 3 am
<b>HIV</b>					
DIDANOSINE	Videx EC 200 mg q 12 h	Videx EC 200 mg q 24 h	Videx EC 125 mg q 24 h	Videx EC 125 mg q 24 h	Videx EC 125 mg q 24 h
LAMIVUDINE	300 mg q 24 h	150 mg q 24 h	150 mg x 1, then 100 mg q 24 h	50 mg x 1, then 25 mg q 24 h	50 mg x 1, then 25 mg q 24 h
- Hepatitis B prophylaxis	100 mg q 24 h	100 mg x 1 dose, then 50 mg q 24 h	100 mg x 1 dose, then 25 mg q 24 h	35 mg x 1 dose, then 15 mg q 24 h	35 mg x 1 dose, then 15 mg q 24 h
STAVUDINE	40 mg q 12 h	20 mg q 12 h	20 mg q 24 h	20 mg q 24 h	20 mg q 24 h
TENOFOVIR	300 mg q 24 h	300 mg q 48 h	300 mg 2x/week	300 mg 1x/week	No data
ZALCITABINE	0.75 mg q 8 h	0.75 mg q 12 h	0.75 mg q 12 h	0.75 mg q 24 h	0.75 mg q 24 h
ZIDOVUDINE	300 mg q 12 h	300 mg q 12 h	300 mg q 12 h	100 mg q 6-8 h	100 mg q 6-8 h
<b>MISCELLANEOUS DRUGS</b>					
ALLOPURINOL	Usual dose	100-150 mg q 24 h	100 mg q 24 h	100 mg q 48-72 h	100 mg q 48-72 h
FAMOTIDINE (IV&PO)	20 mg q 12 h	20 mg q 24 h	20 mg q 24 h	10 mg q 24 h	10 mg q 24 h
METOCLOPRAMIDE (IV&PO)	usual dose	5-10 mg q 6-8 h	5 mg q 6 h	5 mg q 6 h	5 mg q 6 h
* TDM available for acyclovir, aminoglycosides, cycloserine, fluconazole, flucytosine, ganciclovir, posiconazole, septran, vancomycin, voriconazole					
**As with any quick reference, this is not intended to replace clinical judgement					
Cockcroft Gault CLcr (mL/min) = (140 - age) * weight (kg)*(0.85 if female) / 72 * Scr (mg/dL)					
UseAdjWt if actual body weight > 1.2 * IBW (AdjWt = IBW + 0.4 *(TBW - IBW))					
IBW males (kg) = 50 + 2.3 * inches over 5 ft					
IBW female (kg) = 45.5 + 2.3 * inches over 5 ft					
Revised 04/2017***Linda Awdishu Pharm D, Charlie James PharmD					