Table 8. Adult parenteral antimicrobial dosage guidelines

Antibiotic	Usual Dosages <sup>a</sup>
ANTIBACTERIAL AGENTS	
Penicillins	
ampicillin	1-2 g q4-6h
cloxacillin	2 g q4-6h
penicillin G	2-4 million units q4-6h
piperacillin-tazobactam	3.375 g q6h
meropenem	500 mg q6h
Cephalosporins	
cefazolin	1-2 g q8h
cefoxitin	1-2 g q6-8h
cefuroxime	0.75-1.5 g q8h
ceftriaxone	1-2 g q24h
ceftazidime	1-2 g q8h
Fluoroquinolones	
ciprofloxacin	400 mg q12h
levofloxacin	500-750 mg q24h
moxifloxacin	400 mg q24h
Macrolides	
azithromycin	500 mg q24h
Aminoglycosides	
gentamicin or tobramycin	80 mg q8h
Others	
clindamycin	600 mg q8h
cotrimoxazole (TMP-SMX)	10-20 mg/kg/day trimethoprim in divided doses q6-8h
metronidazole	500 mg q8h
vancomycin	1 g q12h or 15 mg/kg q12h
ANTIFUNGAL AGENTS	·
amphotericin B	0.5-1 mg/kg q24h
fluconazole	100-400 mg q24h
caspofungin	70 mg load then 50 mg q24h
ANTIVIRAL AGENTS	
acyclovir	5-10 mg/kg/dose q8h
ganciclovir	5 mg/kg/dose q12h

<sup>&</sup>lt;sup>a</sup> Based on normal renal function in a 70 kg patient.

Table 9. Parenteral to oral conversion suggestions

Parenteral Drug	Oral Therapy Options <sup>a</sup>
ANTIBACTERIAL AGENTS	
Penicillins	
ampicillin	amoxicillin
cloxacillin	cloxacillin or cephalexin
penicillin G	penicillin V
piperacillin-tazobactam	amoxicillin-clavulanate or cotrimoxazole (TMP-SMX) +/- metronidazole or ciprofloxacin +/- metronidazole
Cephalosporins	·
cefazolin	cephalexin or cloxacillin
cefoxitin	cephalexin + metronidazole or cotrimoxazole + metronidazole or amoxicillin-clavulanate
cefuroxime	cotrimoxazole or amoxicillin-clavulanate or azithromycin/clarithromycin
ceftriaxone	amoxicillin-clavulanate or cephalexin or ciprofloxacin/levofloxacin/moxifloxacin
ceftazidime	ciprofloxacin
Fluoroquinolones	
ciprofloxacin	ciprofloxacin
levofloxacin	levofloxacin
moxifloxacin	moxifloxacin
Macrolides	
azithromycin	azithromycin
Others	
clindamycin	cloxacillin +/- metronidazole or cephalexin +/- metronidazole or clindamycin
ANTIFUNGAL AGENTS	·
fluconazole	fluconazole
ANTIVIRAL AGENTS	
acyclovir	acyclovir or valacyclovir

<sup>&</sup>lt;sup>a</sup> Patients should be clinically stable, demonstrate clinical improvement, and be able to tolerate oral feeding and medications. Selection of oral therapy should be based on cultures and sensitivities. In absence of useful cultures, oral therapy may be selected based on potential pathogens, community- versus hospital-acquired infection, pharmacokinetics, spectrum of activity, and cost of each oral agent. Oral agents listed above represent those currently on the WRHA Formulary and does not represent all commercially available oral agents.

Table 10. Adult dosing recommendations in renal impairment<sup>a</sup>

Drug	(sugg	Creatinine Clearance (CrCl) in mL/min <sup>b</sup> (suggested dosage adjustment based on normal dose)							
Penicillins	(***55								
ampicillin	> 30	10-30	< 10						
	(q6h)	(q6-12h)	(q12h)						
cloxacillin		NO CHANGE NECESSARY							
penicillin	> 50	10-50	< 10						
	(q4-6h)	(q6-8h)	(20-50% of usual dose) <sup>a</sup>						
piperacillin-	> 40	20-40	< 20						
tazobactam	(q6h)	(q8h)	(q12h)						
Carbapenems									
meropenem	> 50	30-49	10-29	< 10					
	(q6h)	(q8h)	(q12h)	(q24h)					
Cephalosporins									
cefazolin	> 50	10-50	< 10						
	(q8h)	(q12h)	(q24h)						
cefoxitin	> 30	10-30	< 10						
	(q6-8h)	(q12-24h)	(q24h)						
cefuroxime	> 20	10-20	< 10						
	(q8h)	(q12h)	(q24h)						
ceftriaxone			NECESSARY						
ceftazidime	> 50	30-50	10-30	< 10					
	(q8h)	(q12h)	(q24h)	(50% q24-48h					
Aminoglycosides <sup>c</sup>	1								
gentamicin/ tobramycin/ amikacin	Contac	t the Pharmacist at yo	ur facility for dosing ass	sistance					
Fluoroquinolones									
ciprofloxacin	> 30	< 30							
оргоноласт	(q12h)	(q24h)							
levofloxacin									
	> 50	20-49	10-19						
(e.g. CAP)	> 50 (q24h)	20-49 (500 mg load, then 50% q24h)	10-19 (500 mg load, then 50% q48h)						
		(500 mg load, then 50% q24h)	(500 mg load,						
(e.g. CAP)		(500 mg load, then 50% q24h)	(500 mg load, then 50% q48h)						
(e.g. CAP) moxifloxacin Macrolides		(500 mg load, then 50% q24h) NO CHANGE	(500 mg load, then 50% q48h)						
(e.g. CAP) moxifloxacin Macrolides azithromycin		(500 mg load, then 50% q24h) NO CHANGE	(500 mg load, then 50% q48h)						
(e.g. CAP) moxifloxacin Macrolides azithromycin Antifungal Agents	(q24h)	(500 mg load, then 50% q24h) NO CHANGE	(500 mg load, then 50% q48h) NECESSARY						
(e.g. CAP) moxifloxacin Macrolides azithromycin		(500 mg load, then 50% q24h) NO CHANGE NO CHANGE	(500 mg load, then 50% q48h)						
(e.g. CAP) moxifloxacin Macrolides azithromycin Antifungal Agents	(q24h)	(500 mg load, then 50% q24h) NO CHANGE NO CHANGE 20-50 (50% q24h)	(500 mg load, then 50% q48h)  NECESSARY  NECESSARY  20 (25% of usual dose q24h)						
(e.g. CAP) moxifloxacin Macrolides azithromycin Antifungal Agents	(q24h)	(500 mg load, then 50% q24h) NO CHANGE NO CHANGE 20-50 (50% q24h)	(500 mg load, then 50% q48h) NECESSARY  NECESSARY						
(e.g. CAP) moxifloxacin Macrolides azithromycin Antifungal Agents fluconazole	(q24h)	(500 mg load, then 50% q24h) NO CHANGE NO CHANGE 20-50 (50% q24h)	(500 mg load, then 50% q48h)  NECESSARY  NECESSARY  20 (25% of usual dose q24h)						
(e.g. CAP) moxifloxacin Macrolides azithromycin Antifungal Agents fluconazole caspofungin	(q24h)	(500 mg load, then 50% q24h) NO CHANGE NO CHANGE 20-50 (50% q24h)	(500 mg load, then 50% q48h)  NECESSARY  NECESSARY  20 (25% of usual dose q24h)	<10					
(e.g. CAP) moxifloxacin Macrolides azithromycin Antifungal Agents fluconazole caspofungin Antiviral Agents	(q24h) > 50 (q24h)	(500 mg load, then 50% q24h) NO CHANGE NO CHANGE 20-50 (50% q24h)	(500 mg load, then 50% q48h) NECESSARY NECESSARY	< 10 (50% q24h)					
(e.g. CAP) moxifloxacin Macrolides azithromycin Antifungal Agents fluconazole caspofungin Antiviral Agents	> 50 (q24h)	(500 mg load, then 50% q24h)  NO CHANGE  NO CHANGE  20-50 (50% q24h)  NO CHANGE	(500 mg load, then 50% q48h) NECESSARY NECESSARY  2 0 (25% of usual dose q24h) NECESSARY						
(e.g. CAP) moxifloxacin Macrolides azithromycin Antifungal Agents fluconazole caspofungin Antiviral Agents acyclovir	> 50 (q24h) > 50 (q24h) > 50 (q8h)	(500 mg load, then 50% q24h)  NO CHANGE  NO CHANGE  20-50 (50% q24h)  NO CHANGE	(500 mg load, then 50% q48h) NECESSARY  NECESSARY	(50% q24h) < 10					
(e.g. CAP) moxifloxacin Macrolides azithromycin Antifungal Agents fluconazole caspofungin Antiviral Agents acyclovir ganciclovir	(q24h)  > 50 (q24h)  > 50 (q24h)  50-69	(500 mg load, then 50% q24h) NO CHANGE NO CHANGE 20-50 (50% q24h) NO CHANGE 25-50 (q12h) 25-49	(500 mg load, then 50% q48h) NECESSARY  NECESSARY  20 (25% of usual dose q24h) NECESSARY  10-25 (q24h) 10-25	(50% q24h) < 10					
(e.g. CAP) moxifloxacin Macrolides azithromycin Antifungal Agents fluconazole caspofungin Antiviral Agents acyclovir (induction doses)	(q24h)  > 50 (q24h)  > 50 (q24h)  50-69	(500 mg load, then 50% q24h)  NO CHANGE  NO CHANGE  20-50 (50% q24h)  NO CHANGE  25-50 (q12h) 25-49 2.5 mg/kg q24h	(500 mg load, then 50% q48h) NECESSARY  NECESSARY  20 (25% of usual dose q24h) NECESSARY  10-25 (q24h) 10-25	(50% q24h) < 10					
(e.g. CAP) moxifloxacin Macrolides azithromycin Antifungal Agents fluconazole caspofungin Antiviral Agents acyclovir ganciclovir (induction doses) Miscellaneous	(q24h)  > 50 (q24h)  > 50 (q24h)  50-69	(500 mg load, then 50% q24h) NO CHANGE  NO CHANGE  20-50 (50% q24h)  NO CHANGE  25-50 (q12h) 25-49 2.5 mg/kg q24h  NO CHANGE	(500 mg load, then 50% q48h) NECESSARY  NECESSARY <a href="#">&lt; 20</a> (25% of usual dose q24h) NECESSARY  NECESSARY  10-25 (q24h) 10-25 1.25 mg/kg q24h	(50% q24h) < 10					
moxifloxacin Macrolides azithromycin Antifungal Agents fluconazole  caspofungin Antiviral Agents acyclovir (induction doses) Miscellaneous clindamycin metronidazole	> 50 (q24h) > 50 (q24h) > 50 (q8h) 50-69 2.5 mg/kg q12h	(500 mg load, then 50% q24h) NO CHANGE  NO CHANGE  20-50 (50% q24h)  NO CHANGE  25-50 (q12h) 25-49 2.5 mg/kg q24h  NO CHANGE  NO CHANGE	(500 mg load, then 50% q48h)  NECESSARY  NECESSARY  2 0 (25% of usual dose q24h)  NECESSARY  10-25 (q24h) 10-25 1.25 mg/kg q24h  NECESSARY  NECESSARY	(50% q24h) < 10					
(e.g. CAP) moxifloxacin Macrolides azithromycin Antifungal Agents fluconazole caspofungin Antiviral Agents acyclovir (induction doses) Miscellaneous clindamycin	(q24h)  > 50 (q24h)  > 50 (q24h)  50-69	(500 mg load, then 50% q24h) NO CHANGE  NO CHANGE  20-50 (50% q24h)  NO CHANGE  25-50 (q12h) 25-49 2.5 mg/kg q24h  NO CHANGE	(500 mg load, then 50% q48h)  NECESSARY  NECESSARY  2 0 (25% of usual dose q24h)  NECESSARY  10-25 (q24h) 10-25 1.25 mg/kg q24h  NECESSARY  NECESSARY	(50% q24h) < 10 1.25 mg/kg 3x/v					

<sup>&</sup>lt;sup>a</sup> Suggested dosages – for individualized dosage modifications or more information contact the Pharmacy Department at your facility.



## Deer Lodge Centre Antibiogram for 2022

(Based on data from 2021)

Provided by: Shared Health, Clinical Microbiology Discipline

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<sup>&</sup>lt;sup>b</sup> To estimate creatinine clearance (CL<sub>CR</sub>) (mL/min) use the following calculation normalized for a 72 kilogram person.

CL<sub>CR</sub> male = (140-age) x 88.4 CL<sub>CR</sub> female = 0.85 x CL<sub>CR</sub> male
S<sub>FR</sub> (µmlos/L)

Monitor serum concentrations.

## DISCLAIMERS

This guide is provided as an educational resource for physicians and other healthcare professionals caring for patients at the Deer Lodge Centre. The authors of the guide have made every effort to ensure that the information contained in it was accurate at the time of publication. Users of the guide are encouraged to consult other references to confirm the information presented in it. The authors are not responsible for errors, omissions, inaccuracies, or the continued completeness of the information contained in the guide. The information in the guide should not be used or relied upon to replace the skill and professional judgment required to determine appropriate patient care and treatment. Also, the guide is not intended to replace or to be used as a substitute for the complete prescribing information prepared by each pharmaceutical manufacturer for their anti-infective agents. Because of possible changes in anti-infective indications, changes in dosage information, differences in patients' responses to therapy, newly described toxicities, drug-drug interactions, and other items of importance, reference to complete prescribing information is recommended before any of the anti-infective agents described in the guide are used.

## HOW TO USE THE ANTIBIOGRAM PORTION OF THE GUIDE (Tables 1-6)

- The information presented in the antibiogram is intended only to guide initial empiric anti-infective agent therapy at the Deer Lodge Centre.
- Initial broad-spectrum empiric therapy should be focused to the most appropriate narrow-spectrum agent(s) based on the laboratory identification of pathogen(s) and known susceptibility patterns/results, if the situation permits.
- Consideration should be given to equally efficacious but less expensive anti-infective agents for empiric therapy or when streamlining of therapy is desired, if the situation permits.

## SUGGESTED CRITERIA FOR IV TO ORAL ANTIBIOTIC CONVERSION IN ADULTS

- Clinical improvement of infectious signs and symptoms (e.g., temperature defervescence, decreased white blood cell count).
- Patient is clinically stable (excludes patients in the intensive care unit, patients with febrile neutropenia, or patients with life threatening infections).
- Patient can tolerate oral feeding and medications (bowel sounds, no diarrhea/nausea/ vomiting).
- For rapid step-down, choose agents with high bioavailability (e.g., clindamycin, cotrimoxazole (TMP-SMX), fluoroquinolones).
- If anti-infective agent susceptibilities are known, anti-infective therapy should be tailored based on available data.

Table 1. In vitro activity of selected anti-infective agents tested against Gram-negative bacillia

		Percent Susceptible													
Organism (number tested): January through December 2021  Not tested, not routinely reported, or not recommended	Ampicillin	Amoxicillin- Clavulanate	Piperacillin- Tazobactam	Cefazolin	Cephalexinb	Cefuroxime	Ceftriaxone	Ceftazidime	Ertapenem	Meropenem	Gentamicin	Tobramycin	Ciprofloxacin	Trimethoprim- Sulfamethoxazole	Nitrofurantoin°
Citrobacter spp. (41)			83				68	76	95	98	93	93	78	88	88
Enterobacter cloacae complex (49)			73				67	65	88	98	96	96	90	90	35
Escherichia coli (116)	41	78	96	55	n.d.		82	89	100	100	81	82	41	67	97
Haemophilus influenzae (75)d	65	n.d.				97								64	
Klebsiella pneumoniae (39)		92	97	82	n.d.		84	84	100	100	92	92	82	85	18
Klebsiella/Raoultella spp. (30)°		87	90	7			90	93	100	100	93	90	83	80	80
Proteus mirabilis (45)	53	96	100	n.d.	n.d.		100	98	100	100	98	96	58	60	
Pseudomonas aeruginosa (31)			84					87		97	97	100	90		

- a Isolates tested and reported are from all sources combined; Escherichia coli, Klebsiella pneumoniae, and Pseudomonas aeruginosa isolates were collected from Jan 1 to Dec 31, 2021; Proteus mirabilis isolates were collected from Jan 2020 to Dec 2021; Idata for Citrobacter spp. (Jan to Dec 2021), Enterobacter cloacae complex (Jan to Dec 2021), and Klebsiella' Raoutlella spp. (Jan to Dec 2021) were obtained from Grace Hospital; data compiled according to the recommendations of the Clinical and Laborators Standards Institute (CLSI) in their document M39-A4 (2014).
- b Cephalexin is only indicated for the treatment of uncomplicated lower urinary tract infections.
- Nitrofurantoin is only indicated for acute cystitis.
- <sup>d</sup> H. influenzae data obtained from isolates tested at Health Sciences Centre, Jan 1 to Dec 31, 2017. Sixty-one isolates were tested for Cefuroxime and 69 isolates were tested for Trimethoprim-Sulfamethoxazole.
- The current laboratory identification system is unable to differentiate Klebsiella oxytoca from Raoultella spp.
- n.d. = no data absence of data for certain drug-organism combinations reflects limitations of the testing method currently used by Shared Health Clinical Microbiology laboratories.

Table 2. In vitro activity of selected anti-infective agents tested against Gram-positive coccia

		Percent Susceptible												
Organism (number tested): January through December 2021  = Not tested, not routinely reported, or not recommended	Penicillin	Ampicillin	Oxacillin <sup>b</sup>	Vancomycin	Daptomycin	High-Level Gentamicin°	High-Level Streptomycin°	Erythromycin <sup>d</sup>	Clindamycin	Trimethoprim- Sulfamethoxazole	Rifampin°	Linezolid	Tetracycline	Nitrofurantoin
Enterococcus spp. (61)		95		98	n.d.	73	67					n.d.		95
Staphylococcus aureus (54)			72	100	100			56	80	98	98	100	100	94
Staphylococcus epidermidis (33)9			42	100	100			42	72	67	97	100	88	97
Staphylococcus lugdunensis (59)9			100	100	100			88	88	100	100	100	98	100
Streptococcus pyogenes (n.a.)h (Group A Streptococcus)	100													
Streptococcus agalactiae (162) (Group B Streptococcus)	100			100					60					

- <sup>a</sup> Isolates tested and reported are from all sources (surveillance isolates excluded), Jan to Dec, 2021; data compiled according to
- the recommendations of the Clinical and Laboratory Standards Institute (CLSI) in their document M39-A4 (2014).
- b Oxacillin accurately predicts the activity of all semi-synthetic penicillins, including cloxacillin, beta-lactam/beta-lactamase inhibitor combinations, cephalosporins, and carbapenems for Staphylococcus aureus and coagulase-negative staphylococci.
- Susceptibility to high-level gentamicin or high-level streptomycin indicates that these agents can be used in combination with a cell wall active agent (e.g., ampicillin or vancomycin) for synergy. Gentamicin and streptomycin should never be used alone as treatment for *Enteropcicus* son
- d Erythromycin activity predicts the activity of azithromycin and clarithromycin for staphylococci and streptococci.
- Rifampin should NOT be used alone as treatment for infection.
- Nitrofurantoin is indicated for acute cystitis only.
- <sup>9</sup> Data for Staphylococcus epidermidis (Jan to Dec, 2021) and Staphylococcus lugdunensis (Jan 2020 to Dec 2021) obtained from Grace Hospital
- h n.a. = not applicable Susceptibility testing of Streptococcus pyogenes is not routinely performed as 100% are susceptible to penicillin. If treating infection in a penicillin allergic patient, contact the lab for testing of second line agents.
- Streptococcus agalactiae isolates were obtained from vaginal/rectal swabs submitted for Group B Streptococcus detection to the Health Sciences Centre. St. Boniface Hospital, and Westman Laboratory in 2012.

n.d. = no data – absence of data for certain drug-organism combinations reflects limitations of the testing method currently used by Shared Health Clinical Microbiology laboratories.

Table 3. In vitro activity of selected anti-infective agents tested against Streptococcus pneumoniae<sup>a</sup>

bileumomae										
	Percent Susceptible									
Infection Type (number tested)  = Not tested, not routinely reported, or not recommended	Penicillin (oral)	Penicillin (intravenous)	Ceftriaxone	Vancomycin	Levofloxacin	Clarithromycin	Doxycydine	Trimethoprim- Sulfamethoxazole		
Systemic Isolates (Blood + CSF) <sup>b</sup>										
Meningitis (180)		83	96	100				86		
Non-Meningitis infection (180)	83	98	99	100	99	68	92	86		
Respiratory Isolates										
Non-Meningitis infection (40)	78	95	98	100	100	68	83	80		

- <sup>a</sup> For Streptococcus pneumoniae, different susceptibility breakpoints for penicillin and ceftriaxone exist depending on whether meningitis or a non-meningitis infection is being treated (CLSI, M100, 31<sup>st</sup> edition). For penicillin, when treating a non-meningitis infection different breakpoints exist for oral and intravenous dosing. For non-meningitis infections, susceptibility to oral penicillin predicts susceptibility to amoxicillin. Oral agents are not appropriate for the treatment of bacterial meningitis.
- b Systemic isolates were obtained from patients across Manitoba as part of the SAVE Study between January and December, 2017. CSF = cerebrospinal fluid.
- c Respiratory isolates were obtained from patients at the Health Sciences Centre (HSC) and St. Boniface Hospital (SBH) between January and December, 2018.

Table 4. In vitro activity of selected anti-infective agents tested against Methicillin-Susceptible and Methicillin-Resistant Staphylococcus aureus isolates from Grace Hospital, 2021<sup>a</sup>

		Percent Susceptible						
Organism (number tested)  = Not tested, not routinely reported, or not recommended	Oxacillin <sup>b</sup>	Vancomycin	Trimethoprim- Sulfamethoxazole	Erythromycin	Clindamycin	Tetracycline	Linezolid	Daptomycin
Methicillin-Susceptible Staphylococcus aureus (241)	100		99	70	76	98		
Methicillin-Resistant Staphylococcus aureus (147)	0	100	97	24	77	95	100	100

- a Isolates tested and reported are from all sources (surveillance isolates excluded), Jan to Dec, 2021; data compiled according to the recommendations of the Clinical and Laboratory Standards Institute (CLSI) in their document M39-A4 (2014).
- b Oxacillin accurately predicts the activity of all semi-synthetic penicillins, including cloxacillin, beta-lactam/beta-lactamase inhibitor combinations, cephalosporins, and carbapenems for Staphylococcus aureus.

Table 5. In vitro activity of selected anti-infective agents tested against anaerobic isolates collected from hospitals in Winnipeg<sup>a</sup>

	Percent Susceptible							
Organism (number tested)  = Not tested, not routinely reported, or not recommended	Penicillin	Amoxicillin- Clavulanate	Piperacillin- Tazobactam	Clindamycin	Meropenem	Metronidazole		
Bacteroides fragilis (108)		93	n.d.	44	93	100		
Bacteroides thetaiotaomicron (37)		94	n.d.	14	97	100		
Prevotella bivia (54)	7	100	n.d.	32	100	96		
Prevotella disiens (34)	32	97	n.d.	18	100	100		

<sup>&</sup>lt;sup>a</sup> Isolates were obtained from WRHA hospitals between Jan 2019 and Dec 2020; data compiled according to the recommendations of the Clinical and Laboratory Standards Institute (CLSI) in their document M39-A4 (2014).

n.d. = no data – absence of data for certain drug-organism combinations reflects limitations of the testing method currently used by Shared Health Clinical Microbiology laboratories.

Table 6. In vitro activity of selected anti-fungal agents tested against Candida species collected from hospitals in Winnipeg<sup>a</sup>

	Percent Susceptible						
Organism (number tested)	Fluconazole <sup>b</sup>	Voriconazole	Micafungin				
Candida albicans (33)	100	100	100				
Candida glabrata (34)	91	n.d.	97				

- <sup>a</sup> Data obtained by testing a random sample of C. albicans and C. glabrata isolates from Health Sciences Centre and St. Boniface Hospital, collected between Jan 2017 and Dec 2018. Susceptibility interpretations are based on updated CLSI breakpoints (M60, 2<sup>nd</sup> Edition). Isolates tested and reported are from blood only.
- b For fluconazole, there is only a susceptible-dose dependent (SDD) breakpoint for C. glabrata. The percentage of C. glabrata isolates that tested SDD to fluconazole was 91%. Susceptibility of SDD isolates to fluconazole is dependent on achieving the maximum blood level possible (i.e., should use the maximum dosage regimen). Consultation with infectious diseases is recommended for further guidance.
- n.d. = breakpoints have not been defined for voriconazole versus C. glabrata.

Table 7. Adult oral antimicrobial dosage guidelines

Antibiotic	Usual Dosages	Cost (\$) per day <sup>a</sup>
ANTIBACTERIAL AGENTS		
Penicillins		
amoxicillin	500 mg tid	1.10
amoxicillin-clavulanate	500 mg tid or 875 mg bid	2.75-3.00
cloxacillin	500 mg qid	1.50
penicillin V	300 mg qid	0.30
Cephalosporins		
cephalexin	500 mg qid	1.80
Macrolides		
azithromycin	250-500 mg daily	1.25-2.50
clarithromycin	250-500 mg bid	2.25-3.25
Fluoroquinolones		
ciprofloxacin	250-750 mg bid	1.40-2.50
levofloxacin	500-750 mg daily	3.50-6.50
moxifloxacin	400 mg daily	1.50
Others		
clindamycin	450-600 mg tid	1.50-3.00
cotrimoxazole (TMP-SMX)	1 DS (double strength) tab bid	0.25
doxycycline	100 mg bid	1.30
nitrofurantoin (Macrobid®)	100 mg bid	1.50
metronidazole	500 mg tid	0.35
ANTIFUNGAL AGENTS		
fluconazole	100-400 mg daily	5.55-22.20
itraconazole	200-400 mg daily	8.00-16.00
ANTIVIRAL AGENTS		
acyclovir	200-800 mg 5x/day	5.00-16.00
valacyclovir	1 g tid	5.25
Approximate cost per inpatient day exclus	ling dispensing costs as of Eabruary 2017 by	ased on the Manitoba

<sup>a</sup> Approximate cost per inpatient day excluding dispensing costs as of February 2017 based on the Manitoba Drug Interchangeability Formulary and Manufacturer's List Prices. Prices have been rounded.