

Queensland and Northern Territory
Statewide benchmarking report – Emergency Department
January – June 2023

Antibacterial utilisation rates provided in this report are calculated using the number of defined daily doses (DDD) of the antibacterial class consumed each month per 1,000 Emergency Department presentations.

Contributing hospitals are assigned according to Australian Institute for health and Welfare (AIHW) defined peer groups.¹ Deidentified contributor codes can be located via the 'Maintain My Hospital' drop-down menu in the NAUSP Portal.

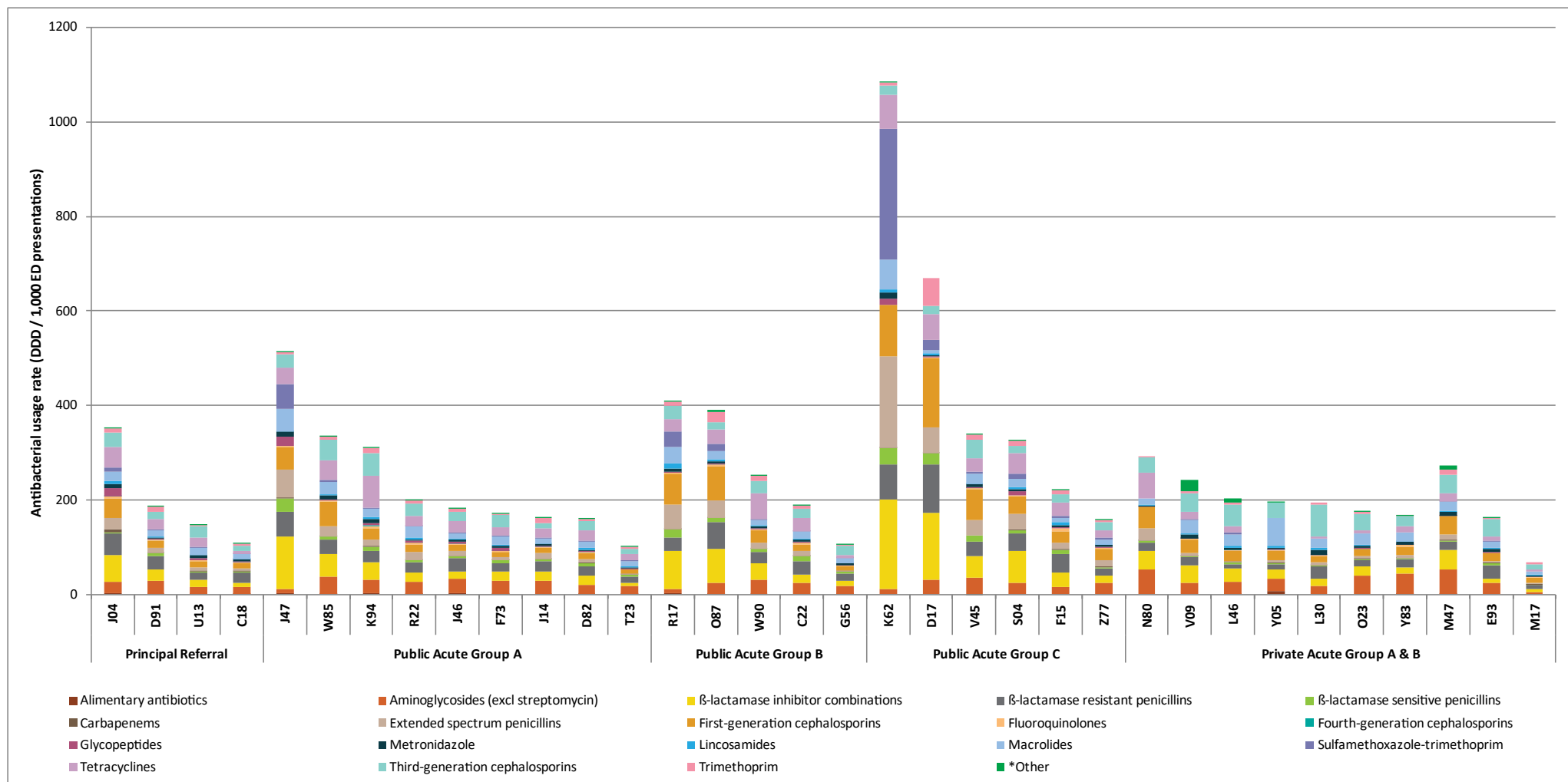
DDD values for each antimicrobial are assigned by the World Health Organization based on the "assumed average maintenance dose per day for the main indication in adults". DDDs are reviewed annually by the WHO as dosing recommendations change over time. For more information refer to: https://www.whocc.no/atc_ddd_methodology/purpose_of_the_atc_ddd_system/

The charts below present aggregated antibacterial usage data in the Emergency Department for the respective contributing hospitals over the six-month period from 1 January 2023 to 30 June 2023. The same data is presented in both charts with two outlier hospitals removed from Chart 1b.

[Note: Not all NAUSP-contributors are able to provide stratified data for the Emergency Department].

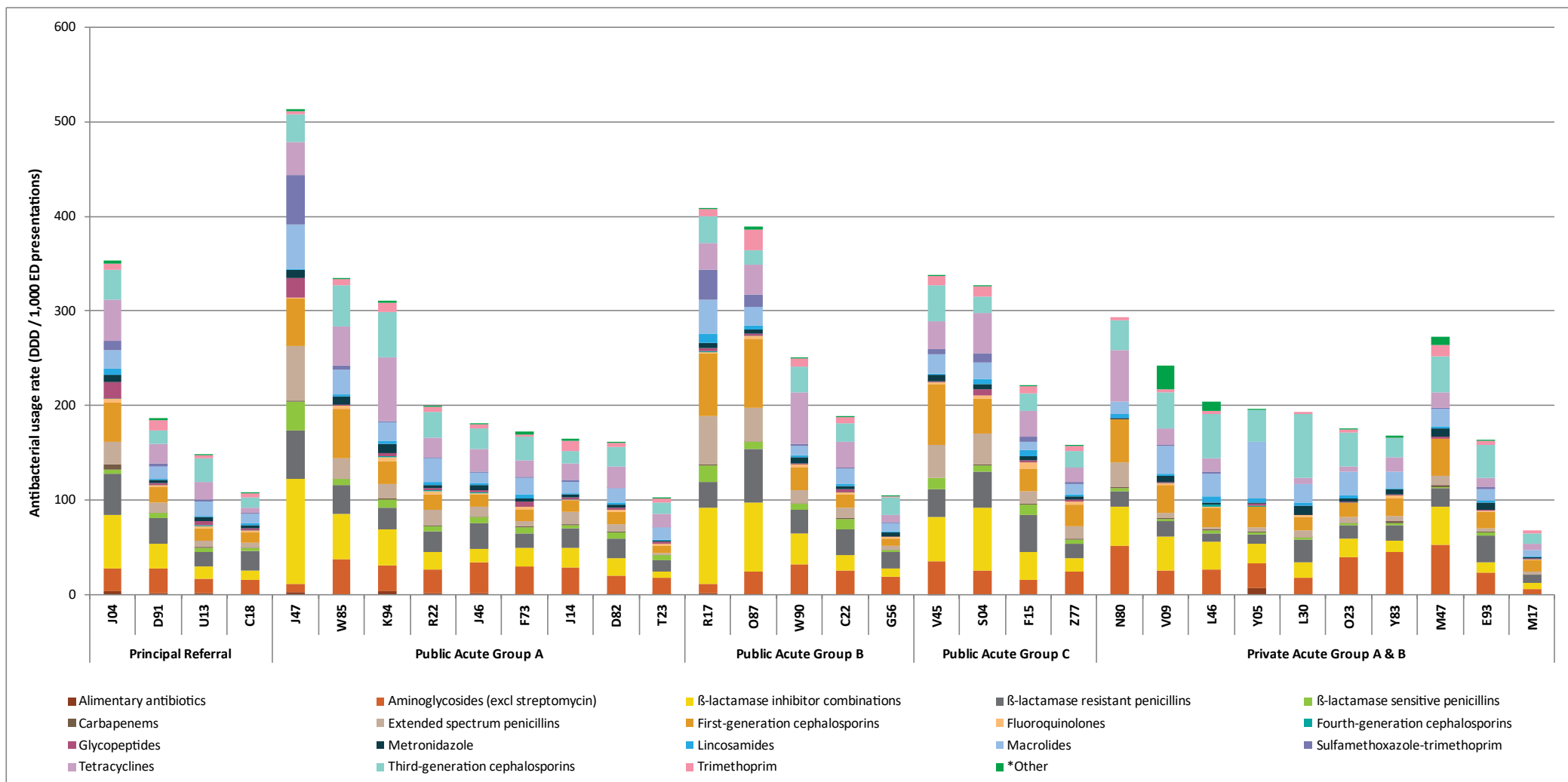
¹ AIHW. *Hospital resources 2017-18: Australian hospital statistics*. Available from <https://www.aihw.gov.au/reports/hospitals/hospital-resources-2017-18-ahs/data>

Chart 1a: Emergency Department antibacterial usage rates (DDD/1000 emergency presentations) in NAUSP contributor hospitals, by peer group, Queensland and Northern Territory, Jan – Jun 2023



[Alimentary antibiotics = rifaximin, fidaxomicin, paromomycin. Other = amphenicols, antimycotics, combinations for eradication of Helicobacter pylori, monobactams, nitrofurans, linezolid, daptomycin, other cephalosporins, polymyxins, rifamycins, second-generation cephalosporins, steroids, streptogramins and streptomycin.

Chart 1b: Emergency Department antibacterial usage rates (DDD/1000 emergency presentations) in NAUSP-contributor hospitals*, by peer group, Queensland and Northern Territory, Jan – Jun 2023



[Alimentary antibiotics = rifaximin, fidaxomicin, paromomycin. Other = amphenicols, antimycobacterial antibiotics, monobactams, nitrofurans, linezolid, daptomycin, other cephalosporins and penems, polymyxins, second-generation cephalosporins, steroids, streptogramins and streptomycin]

***Note: Two outlier hospitals removed (Hospitals K62 and D17)**

This report includes data from the following 34 hospitals in NSW and ACT:

Alice Springs Hospital	Mt Isa Hospital
Atherton Hospital	Nambour General Hospital
Buderim Private Hospital	Palmerston Regional Hospital
Bundaberg Hospital	Queen Elizabeth 2 Jubilee Hospital
Gladstone Hospital	Redcliffe Hospital
Gold Coast Private Hospital	Redland Hospital
Greenslopes Hospital	Royal Brisbane And Women's Hospital
Gympie Health Service	Royal Darwin Hospital
Hervey Bay Hospital	St Andrew's War Memorial Hospital
Ipswich Hospital	St Vincent's Private Hospital Northside
John Flynn Private Hospital	St Vincent's Private Hospital Toowoomba
Kilcoy Hospital	Sunshine Coast University Hospital
Kingaroy Hospital	Tennant Creek Hospital
Maryborough Hospital	Toowoomba Hospital
Mater Hospital Brisbane	Townsville Hospital
Mater Private Hospital Brisbane	Warwick Hospital
Mater Private Hospital Townsville - Pimlico	Wesley Hospital

Disclaimer: Data presented in this report were correct at the time of publication. As additional hospitals join NAUSP, retrospective data are included. Data may change when quality assurance processes identify the need for data updates.

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ANTIBACTERIAL CLASSES				
Alimentary antibiotics	fidaxomicin	Lincosamides	clindamycin	
	paromomycin		lincomycin	
Aminoglycosides	rifaximin	Macrolides	azithromycin	
	amikacin		clarithromycin	
	gentamycin		erythromycin	
	neomycin		roxithromycin	
β-lactamase inhibitor combinations	tobramycin	Monobactams	aztreonam	
	amoxicillin - clavulanate		Nitrofurans derivatives	nitrofurantoin
β-lactamase resistant penicillins	piperacillin - tazobactam	Polymyxins	colistin	
	dicloxacillin		polymyxin B	
β-lactamase sensitive penicillins	flucloxacillin	Second-generation cephalosporins	cefaclor	
	benzathine benzylpenicillin		cefamandole	
	benzylpenicillin		cefotetan	
	phenoxymethylpenicillin		cefoxitin	
Carbapenems	procaine benzylpenicillin	Steroid antibacterials	cefuroxime	
	doripenem		fusidic acid	
	ertapenem	Streptogramins	pristinamycin	
	imipenem - cilastatin	Streptomycins	streptomycin	
	meropenem	Sulfonamide-trimethoprim combinations	sulfamethoxazole - trimethoprim	
Extended-spectrum penicillins	meropenem - vaborbactam	Tetracyclines	doxycycline	
	amoxicillin		minocycline	
	ampicillin		tetracycline	
	pivmecillinam		tigecycline	
First-generation cephalosporins	temocillin	Third-generation cephalosporins	cefixime	
	cefalexin		cefotaxime	
	cefalotin		ceftazidime	
Fluoroquinolones	cefazolin		Trimethoprim	ceftazidime - avibactam
	ciprofloxacin	ceftriaxone		
	levofloxacin	Other (including other cephalosporins and penems)	ceftaroline fosamil	
	moxifloxacin		ceftolozane - tazobactam	
norfloxacin	daptomycin			
cefepime	faropenem			
Fourth-generation cephalosporins	cefpirome	Glycopeptides	fosfomycin	
	dalbavancin		linezolid	
Imidazole derivatives	oritavancin		Intermediate-acting sulfonamides	rifampicin
	teicoplanin			tedizolid
	vancomycin			
	metronidazole			
	sulfadiazine			