

Queensland and Northern Territory
Statewide benchmarking report – Emergency Department
January 2024 – June 2024

Antibacterial utilisation rates provided in this report are calculated using the number of defined daily doses (DDDs) 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.

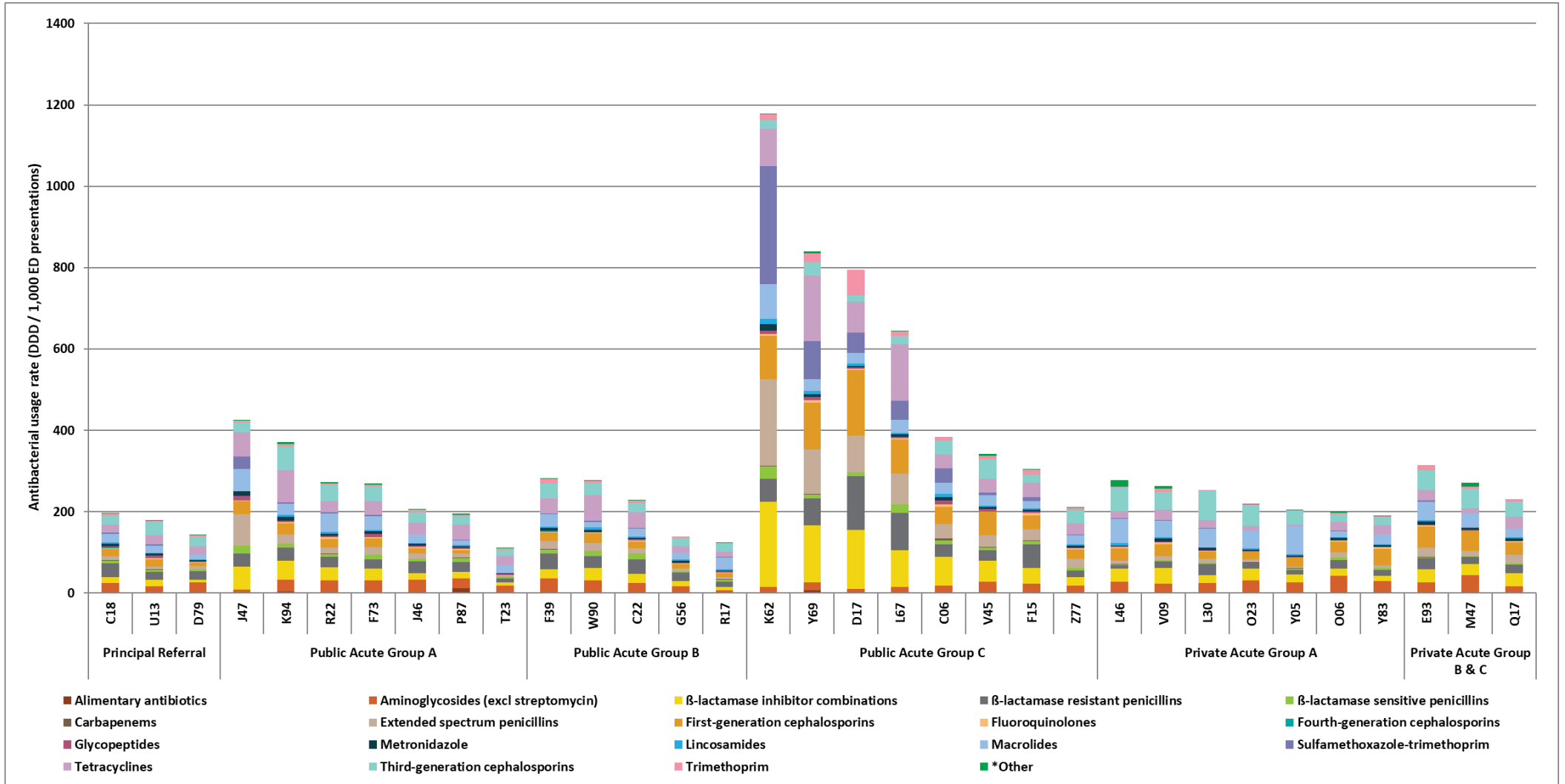
DDD values for each antimicrobial are assigned by the World Health Organization based on the "assumed average maintenance dose per day for the main indication in adults". DDDs are reviewed annually by the WHO as dosing recommendations change over time. For more information refer to: https://www.whocc.no/atc_ddd_methodology/purpose_of_the_atc_ddd_system/

The charts below present aggregated antibacterial usage data in the Emergency Department for the 33 respective contributing hospitals over the six-month period from 1 January 2024 to 30 June 2024. The same data are presented in both charts with outlier hospital(s) removed from Chart 1b.

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

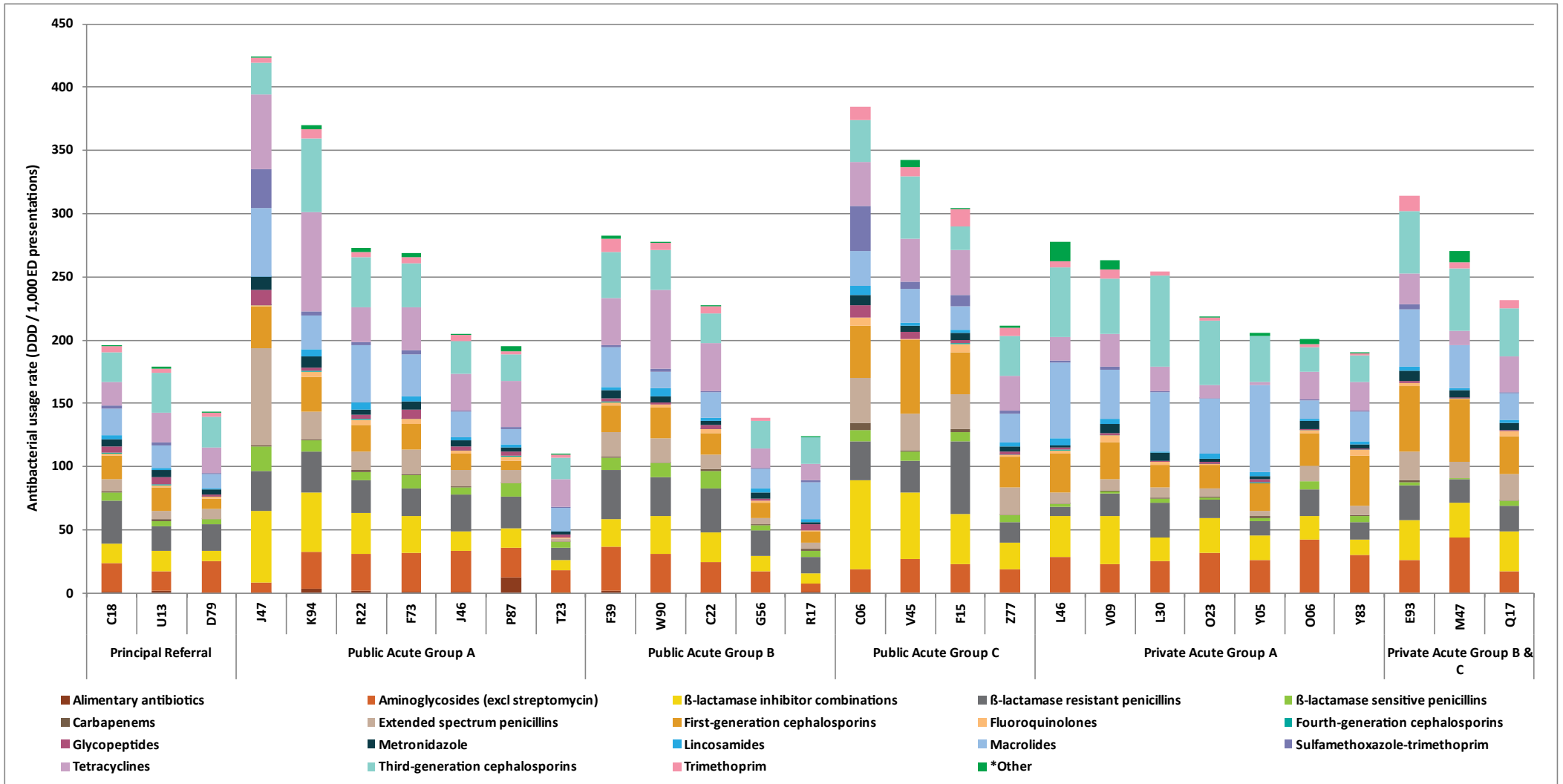
¹ AIHW. *Hospital resources 2017-18: Australian hospital statistics*. Available from <https://www.aihw.gov.au/reports/hospitals/hospital-resources-2017-18-ahs/data>

Chart 1a: Emergency Department antibacterial usage rates (DDD/1000 emergency presentations) in NAUSP contributor hospitals, by peer group, Queensland and Northern Territory, January – June 2024



[Alimentary antibiotics = rifaximin, fidaxomicin, paromomycin. Other = amphenicols, antimycotics, combinations for eradication of *Helicobacter pylori*, fosfomycin, methenamine hippurate, 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, January – June 2024



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

*Note: Four outlier hospitals removed (Hospitals K62, Y69, D17 and L67)

This report includes data from the following 33 hospitals in Queensland and Northern Territory:

Alice Springs Hospital	Mater Private Hospital Brisbane
Atherton Hospital	Mater Rockhampton
Buderim Private Hospital	Mt Isa Hospital
Caboolture Hospital	Pindara Private Hospital
Gladstone Hospital	Redcliffe Hospital
Gove District Hospital	Redland Hospital
Greenslopes Hospital	Royal Brisbane And Women's 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
Katherine District Hospital	Tennant Creek Hospital
Kilcoy Hospital	The Prince Charles Hospital
Kingaroy Hospital	Toowoomba Hospital
Mackay Base Hospital	Townsville Hospital
Mareeba Hospital	Warwick Hospital
Maryborough Hospital	Wesley Hospital
Mater Hospital Brisbane	

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.

The National Antimicrobial Utilisation Surveillance Program (NAUSP) is funded by the Commonwealth Department of Health and Aged Care. NAUSP is administered by Antimicrobial Programs, Communicable Disease Control Branch, Department for Health and Wellbeing, Government of South Australia. All individual hospital data contributed to this program will remain de-identified unless otherwise agreed in writing. Aggregated data may be provided to all contributors, the ACSQHC and the Commonwealth.

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
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
	meropenem	Sulfonamide-trimethoprim combinations	sulfamethoxazole - trimethoprim
meropenem - vaborbactam			
Extended-spectrum penicillins	amoxicillin	Tetracyclines	doxycycline
	ampicillin		minocycline
	pivmecillinam		tetracycline
	temocillin		tigecycline
First-generation cephalosporins	cefalexin	Third-generation cephalosporins	cefixime
	cefalotin		cefotaxime
	cefazolin		ceftazidime
Fluoroquinolones	ciprofloxacin		ceftazidime - avibactam
	levofloxacin	ceftriaxone	
	moxifloxacin	Trimethoprim	trimethoprim
	norfloxacin		
Fourth-generation cephalosporins	cefepime	Other (including other cephalosporins and penems)	ceftaroline fosamil
	cefpirome		ceftolozane - tazobactam
Glycopeptides	dalbavancin		daptomycin
	oritavancin		faropenem
	teicoplanin		fosfomycin
	vancomycin		linezolid
Imidazole derivatives	metronidazole		rifampicin
Intermediate-acting sulfonamides			tedizolid
	sulfadiazine		