

**Public and Private Acute Group A
Critical Care benchmarking report
July – December 2023**

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 occupied bed days.

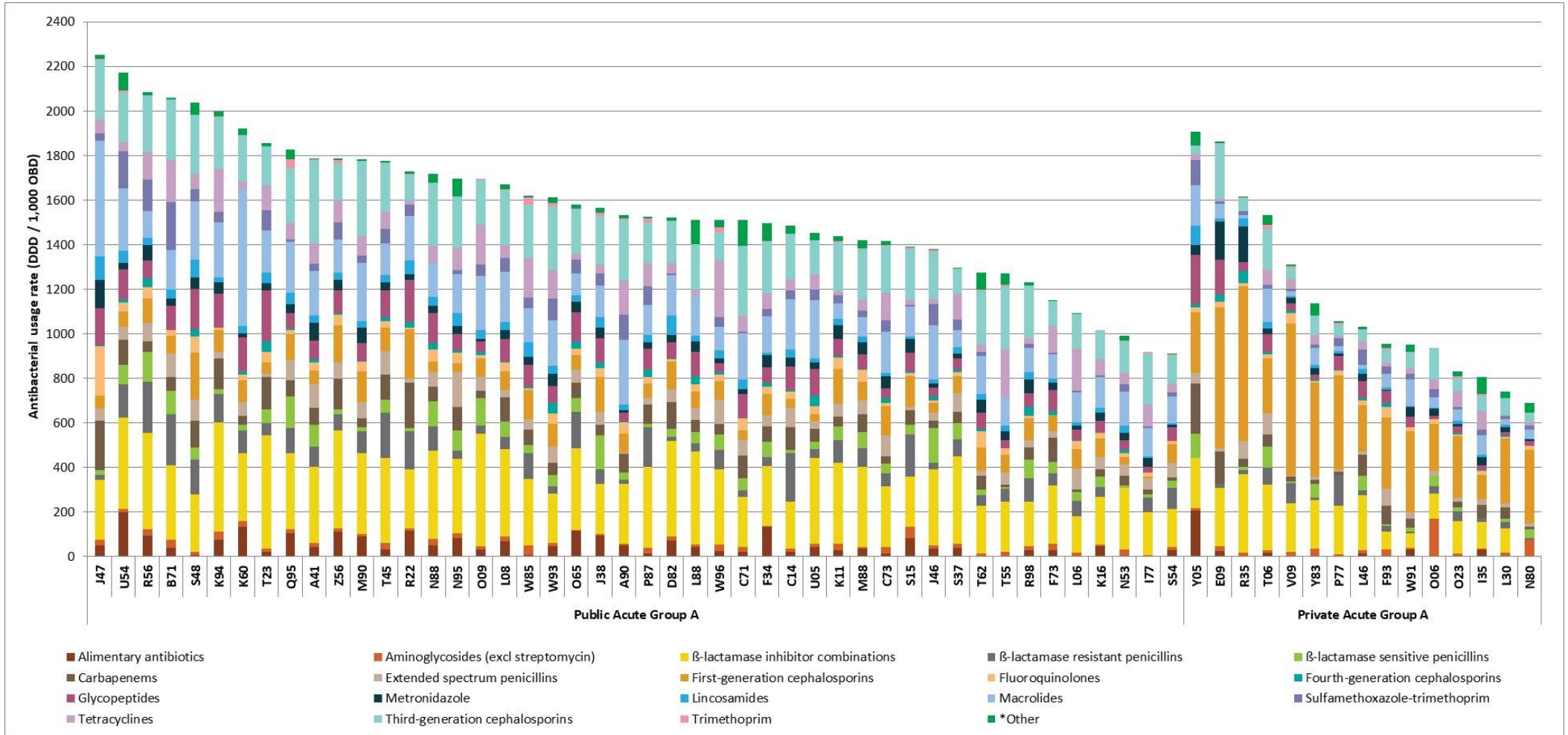
Contributing hospitals are assigned to Australian Institute for Health and Welfare (AIHW) defined peer groups.¹ Contributing hospitals can find their de-identifying code via the NAUSP Portal 'Maintain My Hospital' drop-down menu.

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.whooc.no/atc_ddd_methodology/purpose_of_the_atc_ddd_system/

The chart below presents aggregate antibacterial usage data in the Critical Care for the respective contributing hospitals over the six-month period from 1 July 2023 to 31 December 2023.

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 1: Critical Care antibacterial usage rates (DDD/1000 OBD) in NAUSP Public and Private Acute Group A contributor hospitals, July-December 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.

This report includes data from 62 Public and Private Acute Group A hospitals:

Albury Wodonga - Albury	Lyell McEwin Hospital
Alice Springs Hospital	Mackay Base Hospital
Armadale Kalamunda Group	Maitland Hospital
Ashford Hospital	Manning Base Hospital
Ballarat Base Hospital	Maroondah Hospital
Bankstown Hospital	Mater Hospital Brisbane
Bathurst Base Hospital	Mater Private Hospital Brisbane
Bendigo Health	Newcastle Mater
Blacktown Hospital	North West Regional Hospital
Box Hill Hospital	Northern Beaches Hospital
Bundaberg Hospital	Orange Health Service
Calvary Adelaide Private Hospital	Pindara Private Hospital
Calvary Lenah Valley Hospital	Queen Elizabeth 2 Jubilee Hospital
Campbelltown Hospital	Queen Elizabeth Hospital
Central Gippsland Health	Redcliffe Hospital
Chris O'Brien Lifecare	Rockingham Hospital
Coffs Harbour Hospital	Shoalhaven Hospital
Dubbo Base Hospital	St Andrew's War Memorial Hospital
Frankston Hospital	St John Of God Midland
Gold Coast Private Hospital	St Vincent's Private Hospital Northside
Gosford Hospital	Sutherland Hospital
Greenslopes Hospital	Tamworth Hospital
Griffith Base Hospital	The Northern Hospital
Hervey Bay Hospital	Toowoomba Hospital
Holmesglen Private Hospital	Wagga Wagga Base Hospital
Hornsby Ku-Ring-Gai Hospital	Warrnambool Base Hospital
Ipswich Hospital	Werribee Mercy Hospital
John Fawkner Private Hospital	Wesley Hospital
John Flynn Private Hospital	Western Health Footscray
Launceston General Hospital	Western Health Sunshine
	Wyong 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.

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		Nitrofuran 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			
Fourth-generation cephalosporins	cefepime	Glycopeptides	faropenem	
	cefpirome		fosfomycin	
Imidazole derivatives	dalbavancin	Intermediate-acting sulfonamides	linezolid	
	oritavancin		rifampicin	
	teicoplanin		tedizolid	
	vancomycin			
Intermediate-acting sulfonamides	metronidazole			
	sulfadiazine			

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