

New South Wales – Statewide antimicrobial benchmarking report for acute inpatient aggregate usage rates

July 2023 – 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.

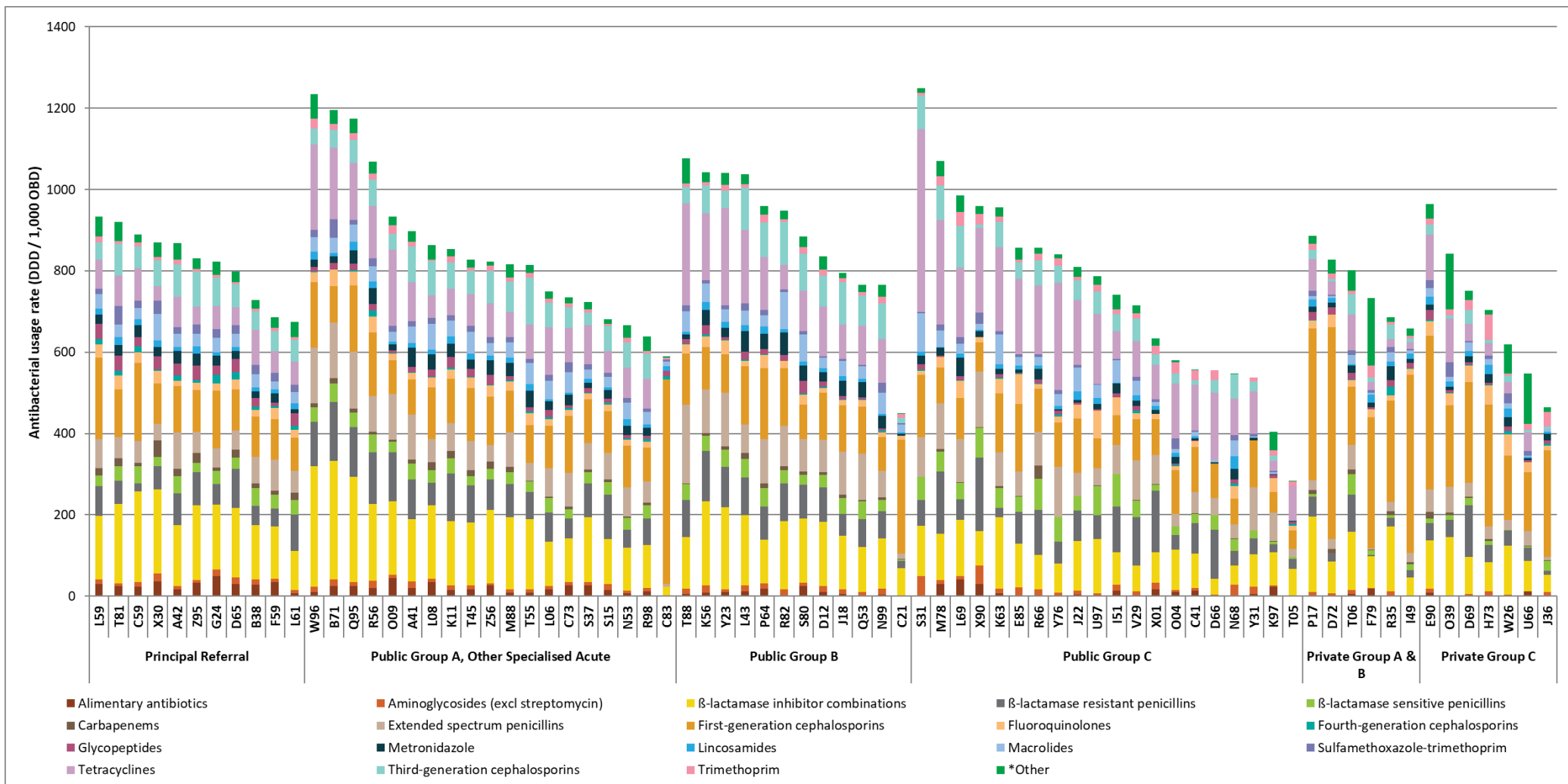
DDD values for each antimicrobial are assigned by the World Health Organization based on the “assumed average maintenance dose per day for the main indication in adults”. DDDs are reviewed annually by the WHO as dosing recommendations change over time. For more information refer to:

https://www.whocc.no/atc_ddd_methodology/purpose_of_the_atc_ddd_system/.

The chart below presents the acute aggregated antibacterial usage rates for the respective contributing hospitals over the six-month period from 1 July 2023 to 31 December 2023. Unless otherwise specified, the aggregate rates include all acute care areas of the hospital, excluding usage in the emergency department and the operating theatre.

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: Total acute hospital antibacterial usage rates (DDD/1000 OBD) in NAUSP contributor hospitals, by peer group, New South, July-December 2023 (excludes Emergency Department and Operating Theatre)



Alimentary antibiotics = rifaximin, fidaxomicin. *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 the following 75 hospitals in NSW:

Armidale Hospital	Lithgow Hospital
Auburn Hospital	Liverpool Hospital
Bankstown Hospital	Macksville District Hospital
Batemans Bay District Hospital	Maitland Hospital
Bathurst Base Hospital	Maitland Private Hospital
Bellinger River District Hospital	Manning Base Hospital
Belmont Hospital	Mater Hospital North Sydney
Blacktown Hospital	Mayo Private Hospital
Blue Mountains Hospital	Milton-Ulladulla Hospital
Bowral Hospital	Moree Hospital
Brisbane Waters Private Hospital	Moruya Hospital
Broken Hill Base Hospital	Mt Druitt Hospital
Campbelltown Hospital	Muswellbrook Hospital
Campbelltown Private Hospital	Narrabri Hospital
Canterbury Hospital	Nepean Hospital
Cessnock District Hospital	Newcastle Mater
Chris O'Brien Lifehouse	Northern Beaches Hospital
Coffs Harbour Hospital	Orange Health Service
Concord Hospital	Prince Of Wales Hospital
Cooma Hospital	Queanbeyan Hospital
Dubbo Base Hospital	Royal North Shore Hospital
Fairfield Hospital	Royal Prince Alfred Hospital
Forster Private Hospital	Ryde Hospital
Glen Innes District Hospital	Scott Memorial Hospital
Gloucester Soldiers' Memorial Hospital	Shellharbour Hospital
Gosford Hospital	Shoalhaven Hospital
Gosford Private Hospital	Singleton District Hospital
Goulburn Base Hospital	South East Regional Hospital
Griffith Base Hospital	St George Hospital
Gunnedah Hospital	St Vincent's Hospital Sydney
Hornsby Ku-Ring-Gai Hospital	St Vincent's Private Hospital Lismore
Hurstville Private Hospital	Sutherland Hospital
Institute Of Rheumatology And Orthopaedics	Tamworth Hospital
Inverell District Hospital	Wagga Wagga Base Hospital
John Hunter Hospital	Westmead Hospital
Kareena Private Hospital	Wollongong Hospital
Kurri Kurri Hospital	Wyong Hospital
Lingard Private 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.

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