

Antimicrobial Utilisation Surveillance in Australian Hospitals

Queensland and Northern Territory

Statewide antimicrobial benchmarking report for acute inpatient aggregate usage rates

July 2024 – December 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 occupied bed days.

Contributing hospitals are assigned to Australian Institute for Health and Welfare (AIHW) defined peer groups. 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:

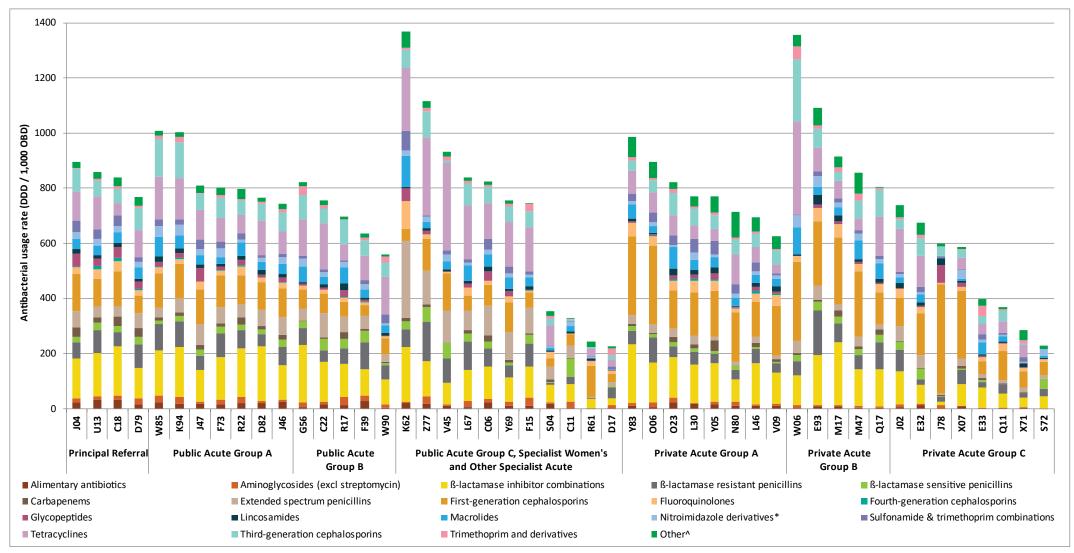
https://www.whocc.no/atc ddd methodology/purpose of the atc ddd system/.

The chart below presents the acute aggregated antibacterial usage rates for the respective contributing hospitals over the six-month period from 1 July 2024 to 31 December 2024. Unless otherwise specified, the aggregate rates include all acute care areas of the hospital, excluding usage in the emergency department and the operating theatre.

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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, Queensland and Northern Territory, July-December 2024 (excludes Emergency Department and Operating Theatre)



Alimentary antibiotics = colistin (oral), fidaxomicin, neomycin (oral), nystatin (oral), paromomycin, rifaximin, vancomycin (oral).

^{*}Nitroimidazole derivatives = metronidazole, tinidazole

[^]Other = amphenicols, antimycotic antibiotics, 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 48 hospitals in Qld and NT:

Alice Springs Hospital
Atherton Hospital

Brisbane Private Hospital Buderim Private Hospital

Bundaberg Hospital
Caboolture Hospital
Darwin Private Hospital
Gladstone Hospital

Gold Coast Private Hospital

Gove District Hospital Greenslopes Hospital Hervey Bay Hospital

John Flynn Private Hospital Katherine District Hospital

Kilcoy Hospital
Kingaroy Hospital
Mareeba Hospital
Maryborough Hospital
Mater Bundaberg

Mater Hospital Brisbane

Mater Mackay

Mater Mothers' Hospital

Mater Private Hospital Brisbane Mater Private Hospital Springfield

Mater Private Hospital Townsville - Hyde Park

Mater Private Hospital Townsville - Pimlico

Mater Redland Private Mater Rockhampton Mt Isa Hospital

Palmerston Regional Hospital Pindara Private Hospital

Queen Elizabeth 2 Jubilee Hospital

Redcliffe Hospital Redland Hospital

Royal Brisbane and Women's Hospital

Royal Darwin Hospital

St Andrew's War Memorial Hospital
St Stephen's Hospital Hervey Bay
St Vincent's Private Hospital Brisbane
St Vincent's Private Hospital Northside
St Vincent's Private Hospital Toowoomba
Stars - Surgical Treatment and Rehabilitation

Services

Tennant Creek Hospital
The Prince Charles Hospital

Toowoomba Hospital Townsville Hospital Warwick Hospital 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.

The National Antimicrobial Utilisation Surveillance Program (NAUSP) is funded by the Commonwealth Department of Health and Aged Care. NAUSP is administered by the 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.

	colistin (oral)		dalbavancin
Alimentary antibiotics	fidaxomicin	Glycopeptides	oritavancin
	neomycin (oral)		teicoplanin
	nystatin (oral)		vancomycin metronidazole
	paromomycin	Imidazole derivatives	(parenteral)
	rifaximin	Intermediate acting sulfonamides	sulfadiazine
	vancomycin (oral)	Lincosamides	clindamycin
Aminoglycosides (excl streptomycin)	amikacin	Lincosamides	lincomycin
	gentamicin	- Macrolides	azithromycin
	neomycin		clarithromycin
	tobramycin		erythromycin
Beta lactamase inhibitor combinations	amoxicillin-clavulanate		roxithromycin
	ampicillin-sulbactam	Nitroimidazole derivatives	metronidazole (oral, rectal)
	piperacillin-tazobactam		tinidazole (oral, recta
	ticarcillin-clavulanate	Sulfonamide & trimethoprim combinations	trimethoprim- sulfamethoxazole
Beta lactamase resistant penicillins Beta lactamase sensitive penicillins	dicloxacillin	Tetracyclines Third generation cephalosporins	doxycycline
	flucloxacillin		minocycline
	benzathine benzylpenicillin		tetracycline
	benzylpenicillin		tigecycline
	phenoxymethylpenicillin		cefotaxime
	procaine benzylpenicillin		ceftazidime
Carbapenems	doripenem		ceftazidime- tazobactam
	ertapenem		ceftriaxone
	imipenem-cilastatin	Trimethoprim and derivatives	trimethoprim
	meropenem		daptomycin
	meropenem-vaborbactam		fosfomycin
Extended spectrum penicillins	amoxicillin	Other antibacterials & combinations	linezolid
	ampicillin		methenamine hippurate
	piperacillin		tedizolid
	pivmecillinam		esomeprazole, amoxicillin and clarithromycin
	temocillin		chloramphenicol
First generation cephalosporins	cefalexin		streptomycin
	cefazolin		colistin
Fluoroquinolones	ciprofloxacin		polymyxin B
	levofloxacin		sodium fusidate
	moxifloxacin		cycloserine
	norfloxacin		rifabutin
	ofloxacin		rifampicin
Fourth generation cephalosporins	cefepime		rifapentine
Other antibacterials & combinations	pristinamycin		cefiderocol
	quinupristin/dalfopristin		ceftaroline

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azt	treonam	Other cephalosporins and penems	ceftolozane-avibactam
niti	rofurantoin		faropenem
cet	faclor		
cet	foxitin		
cei	furoxime		