

Victoria

Statewide benchmarking report – Emergency Department

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 Emergency Department presentations.

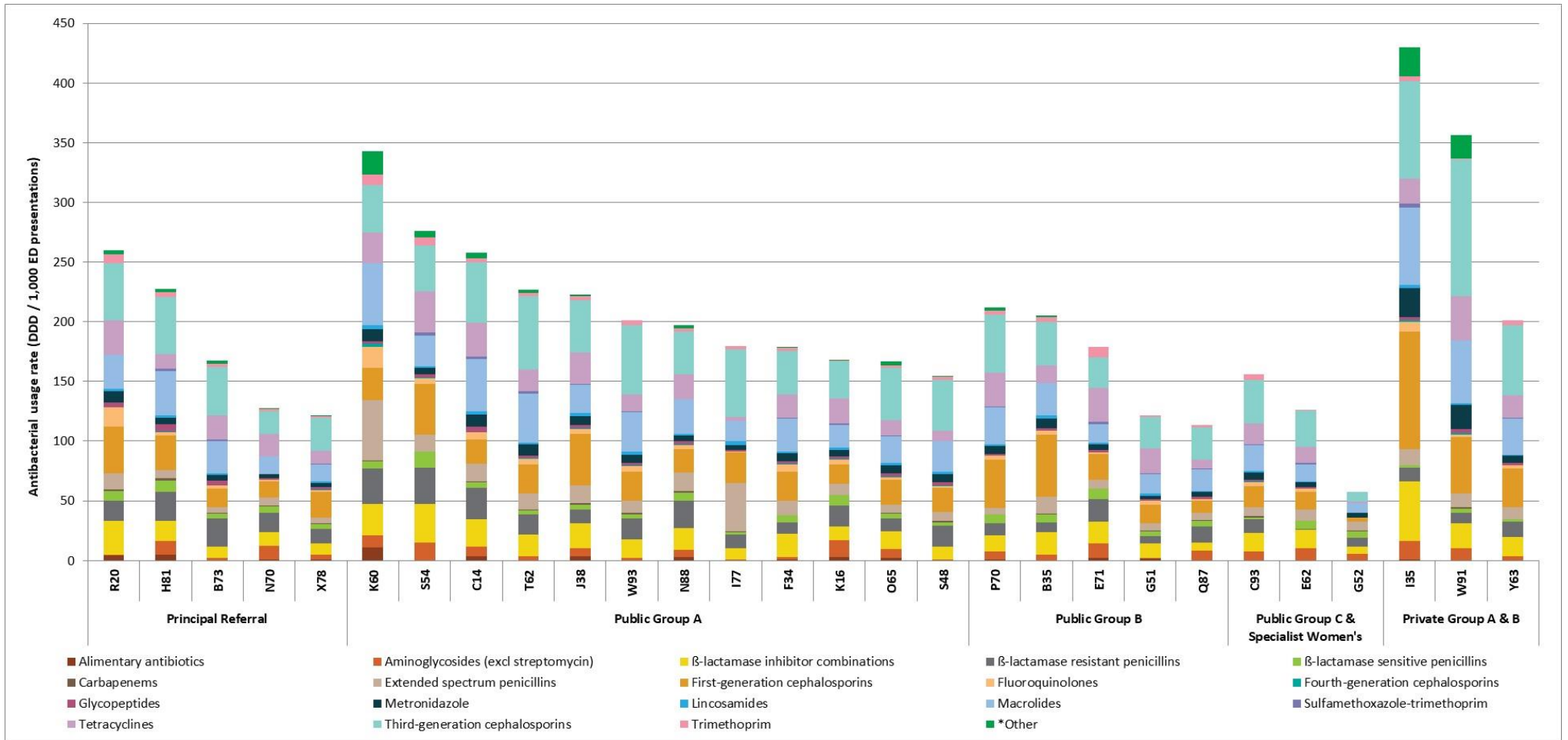
Contributing hospitals are assigned according to Australian Institute for health and Welfare (AIHW) defined peer groups.¹ Deidentified contributor codes can be located via the ‘Maintain My Hospital’ drop-down menu in the NAUSP Portal.

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 chart below presents aggregated antibacterial usage data in the Emergency Department for the respective contributing hospitals over the six-month period from 1 July 2023 to 31 December 2023. [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 1: Emergency Department antibacterial usage rates (DDD/1000 emergency presentations) in NAUSP contributor hospitals, by peer group, Victoria, 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 the following 28 hospitals in VIC:

Albury Wodonga - Albury
Albury Wodonga - Wodonga
Alfred Hospital
Angliss Hospital
Austin Hospital
Ballarat Base Hospital
Bendigo Health
Box Hill Hospital
Central Gippsland Health
Frankston Hospital
Geelong Hospital
Grampians Health - Horsham
Holmesglen Private Hospital
John Fawcner Private Hospital

Maroondah Hospital
Mercy Women's Hospital
Rosebud Hospital
Royal Melbourne Hospital
Sandringham Hospital
St John Of God Geelong
St Vincent's Hospital Melbourne
Swan Hill District Health
The Northern Hospital
Warrnambool Base Hospital
Werribee Mercy Hospital
West Gippsland Hospital
Western Health Footscray
Western Health Sunshine

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
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
	ciprofloxacin	ceftriaxone	
	levofloxacin	Other (including other cephalosporins and penems)	ceftaroline fosamil
	moxifloxacin		ceftolozane - tazobactam
norfloxacin	daptomycin		
Fourth-generation cephalosporins	cefepime		faropenem
	cefpirome	fosfomycin	
	Glycopeptides	dalbavancin	linezolid
		oritavancin	rifampicin
teicoplanin		tedizolid	
vancomycin			
Imidazole derivatives	metronidazole		
Intermediate-acting sulfonamides	sulfadiazine		