

South Australia
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.

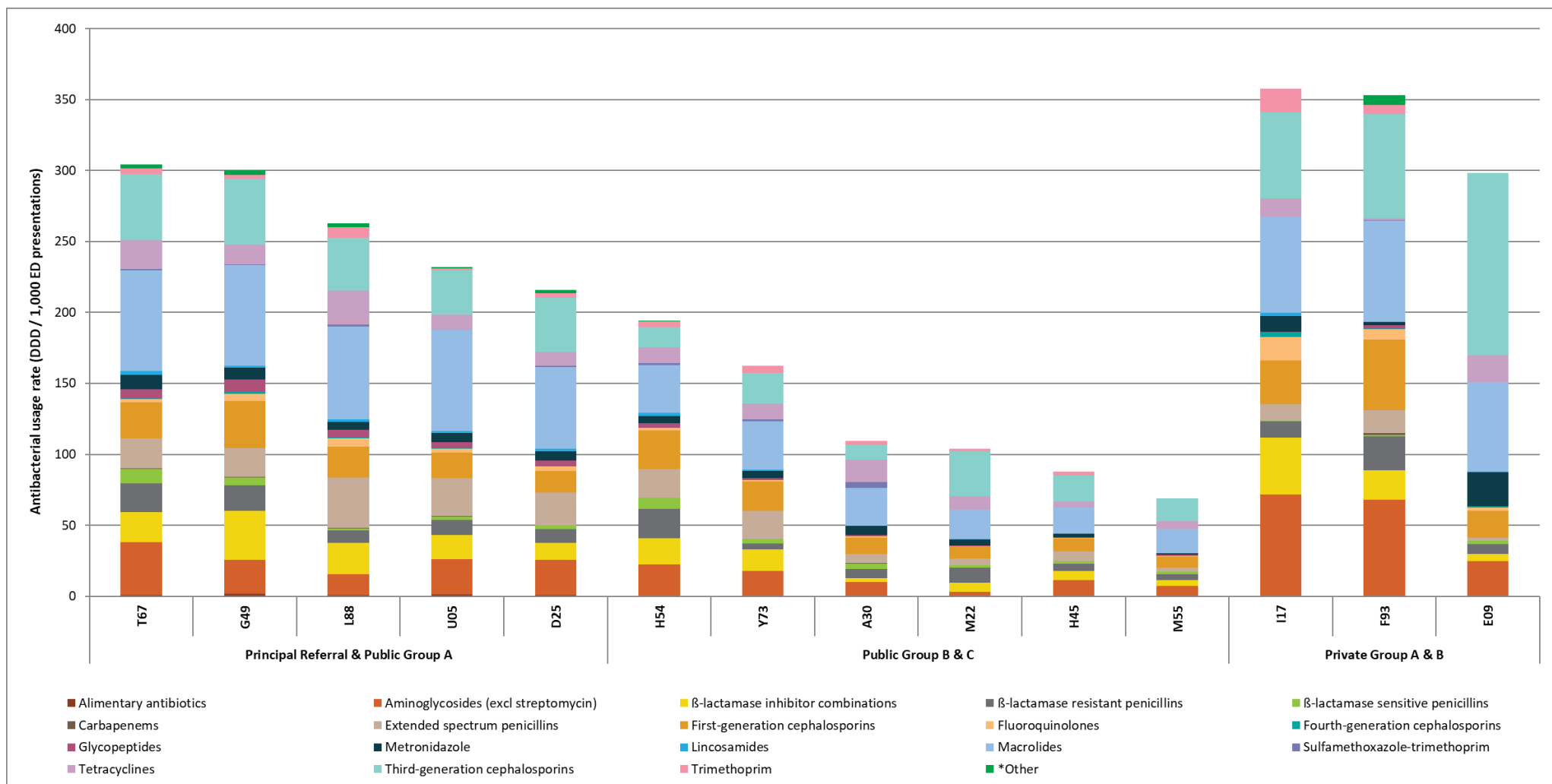
Contributing hospitals are assigned according to Australian Institute for health and Welfare (AIHW) defined peer groups.¹ Deidentified contributor codes can be located via the ‘Maintain My Hospital’ drop-down menu in the NAUSP Portal.

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, South Australia, 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 14 hospitals in SA:

Ashford Hospital
Calvary Adelaide Private Hospital
Flinders Medical Centre
Gawler Health Service
Lyell McEwin Hospital
Modbury Hospital
Mount Barker District Soldiers Memorial Hospital
Mt Gambier Hospital
Noarlunga Hospital
Port Lincoln Hospital
Queen Elizabeth Hospital
Royal Adelaide Hospital
South Coast District Hospital
St Andrew's 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 (DOHAC). 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 DOHAC.

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	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	cefuroxime		
	doripenem	Steroid antibacterials	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	faropenem		
	cefpirome	fosfomycin		
Glycopeptides	dalbavancin	linezolid		
	oritavancin	rifampicin		
	teicoplanin	tedizolid		
	vancomycin			
Imidazole derivatives	metronidazole			
Intermediate-acting sulfonamides	sulfadiazine			