

## **Western Australia – Statewide benchmarking report**

**January 2022 – June 2022**

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.<sup>1</sup> Contributing hospitals can find their de-identifying code via the NAUSP Portal 'Maintain My Hospital' drop-down menu.

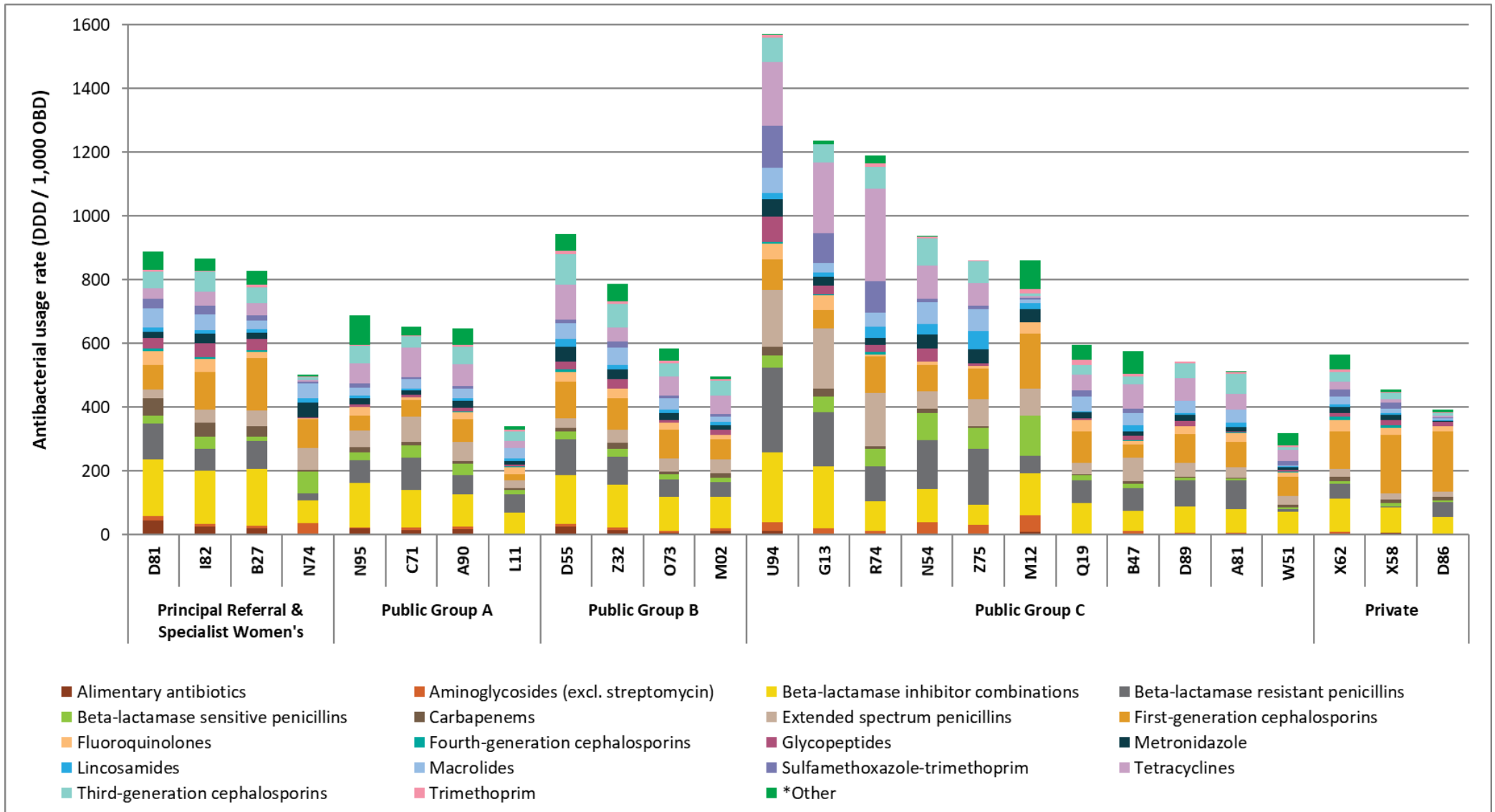
DDD values for each antimicrobial are assigned by the World Health Organization based on the "assumed average maintenance dose per day for the main indication in adults". DDDs are reviewed annually by the WHO as dosing recommendations change over time. For more information refer to: [https://www.whocc.no/atc\\_ddd\\_methodology/purpose\\_of\\_the\\_atc\\_ddd\\_system/](https://www.whocc.no/atc_ddd_methodology/purpose_of_the_atc_ddd_system/)

The chart below presents total acute antibacterial usage data for the respective contributing hospitals over the six-month period from 1 January 2022 to 30 June 2022. Unless otherwise specified, the aggregate usage rates exclude usage in the emergency department and the operating theatre.

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<sup>1</sup> 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, Western Australia, Jan-Jun 2022 (excludes emergency and operating theatre)



Alimentary antibiotics = rifaximin, fidaxomicin. \*Other = amphenicols, monobactams, nitrofurans, linezolid, daptomycin, other cephalosporins, polymyxins, rifamycins, second-generation cephalosporins, steroids, streptogramins and streptomycin.

This report includes data from the following 26 hospitals in WA:

Albany Hospital  
Armadale Kalamunda Group  
Bentley Health Service  
Broome Hospital  
Bunbury Regional Hospital  
Busselton Health  
Derby Hospital  
Esperance Hospital  
Fiona Stanley Hospital  
Geraldton Hospital  
Hedland Health Campus  
Joondalup Health Campus  
Kalgoorlie Health Campus  
Karratha Health Campus  
King Edward Memorial Hospital  
Kununurra Hospital  
Mount Hospital  
Narrogin Hospital  
Northam Hospital  
Osborne Park Hospital  
Rockingham Hospital  
Royal Perth Hospital  
Sir Charles Gairdner Hospital  
St John Of God Midland  
St John Of God Murdoch  
St John Of God Subiaco

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

*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.*