Antimicrobial utilisation rates provided in this report are calculated using the number of defined daily doses (DDD) of the antimicrobial agent or class consumed each month per 1,000 occupied bed days using average data for contributing hospitals in the Western Australia peer group.

Antimicrobial classes reported on pages 2 to 3 are:
- 3rd/4th generation cephalosporins (ceftriaxone, cefotaxime, ceftazidime, cefepime);
- glycopeptides (vancomycin, teicoplanin);
- carbapenems (meropenem, imipenem/cilastatin, ertapenem);
- fluoroquinolones (ciprofloxacin, moxifloxacin, norfloxacin);
- aminoglycosides (gentamicin, tobramycin, amikacin); and
- anti-pseudomonal penicillins plus ß-lactamase inhibitor (piperacillin/tazobactam).

Aggregated rates for this reporting period include data from 24 hospitals and 5 ICUs. Some hospitals were unable to submit data for this reporting period and comparator rates may vary from previous reports.

Enquiries should be directed to the Senior Pharmacist, NAUSP (email: healthantibio@sa.gov.au)

1. TOTAL HOSPITAL ANTIMICROBIAL USE (INCLUDING ALL CLASSES)
2. TOTAL INTENSIVE CARE UNIT ANTIMICROBIAL USE (INCLUDING ALL CLASSES)

![Chart2: total ICU antimicrobial use by all contributors (all classes)](image)

3. TOTAL HOSPITAL USE BY ANTIMICROBIAL CLASS (SELECTED CLASSES)

![Chart3: State-wide total hospital usage of 3rd/4th generation cephalosporins, glycopeptides, carabapenems, fluoroquinolones, aminoglycosides and anti-pseudomonal penicillin/ß-lactamase inhibitor combinations.](image)
4. ANTIMICROBIAL USAGE RATES FOR INDIVIDUAL AGENTS

Aggregated state-wide antimicrobial usage rates for individual agents within reported classes are shown in Charts 4 to 9 below.

Chart 4: 3rd/4th generation cephalosporins

Chart 5: Glycopeptides (vancomycin, teicoplanin)

Chart 6: Carbapenems

Chart 7: Fluoroquinolones

Chart 8: Aminoglycosides

Chart 9: Parenteral penicillin/β-lactamase inhibitor combinations
This report includes data from the following hospitals:

WA: ALBANY HOSPITAL, BENTLEY HEALTH SERVICE, BROOME HOSPITAL, BUNBURY REGIONAL HOSPITAL, BUSSELTON HEALTH, DERBY HOSPITAL, ESPERANCE HOSPITAL, FIONA STANLEY HOSPITAL, FREMANTLE HOSPITAL, GERALDTON HOSPITAL, HEDLAND HEALTH CAMPUS, JOONDALUP HEALTH CAMPUS, KALGOORLIE HEALTH CAMPUS, KING EDWARD MEMORIAL HOSPITAL, KUNUNURRA 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.