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 NT and QLD peer group.

A change to the DDD for a number of high volume antimicrobials occurred in January 2019. This has been applied to all retrospective data. For more information refer to [WHO WTC/DDD alterations 2019](#).

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 40 hospitals and 13 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)

![Chart1: total hospital antimicrobial use by all contributors (all classes)](image)
2. TOTAL INTENSIVE CARE UNIT ANTIMICROBIAL USE (INCLUDING ALL CLASSES)

Chart 2: total ICU antimicrobial use by all contributors (all classes)

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

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:

**NT:** ALICE SPRINGS HOSPITAL, GOVE DISTRICT HOSPITAL, KATHERINE DISTRICT HOSPITAL, PALMERSTON REGIONAL HOSPITAL, ROYAL DARWIN HOSPITAL

**QLD:**ATHERTON HOSPITAL, BUNDABERG HOSPITAL, CABOOLTURE HOSPITAL, CAIRNS BASE HOSPITAL, GLADSTONE HOSPITAL, GOLD COAST PRIVATE HOSPITAL, GOLD COAST UNIVERSITY HOSPITAL, GREENSLOPES HOSPITAL, GYMPIE HEALTH SERVICE, HERVEY BAY HOSPITAL, KINGAROY HOSPITAL, MAREEBA HOSPITAL, MARYBOROUGH HOSPITAL, MATER BUNDABERG, MATER GLADSTONE, MATER HOSPITAL BRISBANE, MATER MACKAY, MATER MOTHERS' HOSPITAL, MATER PRIVATE HOSPITAL BRISBANE, MATER PRIVATE HOSPITAL SPRINGFIELD, MATER REDLAND PRIVATE, MATER ROCKHAMPTON, MT ISA HOSPITAL, NAMBOUR GENERAL HOSPITAL, PRINCESS ALEXANDRA HOSPITAL, REDLAND HOSPITAL, ROBINA HOSPITAL, ROYAL BRISBANE AND WOMEN'S HOSPITAL, ST STEPHEN'S HOSPITAL, HERVEY BAY, ST VINCENT'S PRIVATE HOSPITAL BRISBANE, ST VINCENT'S PRIVATE HOSPITAL NORTHSIDE, SUNSHINE COAST UNIVERSITY HOSPITAL, TOOWOOMBA HOSPITAL, TOWNSVILLE HOSPITAL, WARWICK HOSPITAL