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 ACT and NSW 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 β-lactamase inhibitor (piperacillin/tazobactam).

Aggregated rates for this reporting period include data from 58 hospitals and 35 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)

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:

**NSW:** ARMIDALE HOSPITAL, AUBURN HOSPITAL, BANKSTOWN HOSPITAL, BATHURST BASE HOSPITAL, BELMONT HOSPITAL, BLACKTOWN HOSPITAL, BOWRAL HOSPITAL, CALVARY RIVERINA HOSPITAL, CAMPBELLTOWN HOSPITAL, CANTERBURY HOSPITAL, CESSNOCK DISTRICT HOSPITAL, CHRIS O'BRIEN LIFEHOUSE, COFFS HARBOR HOSPITAL, CONCORD HOSPITAL, DUBBO BASE HOSPITAL, FAIRFIELD HOSPITAL, FORBES DISTRICT HOSPITAL, GOSFORD HOSPITAL, GOSFORD PRIVATE HOSPITAL, GRAFTON BASE HOSPITAL, HORNSBY KU-RING-GAI HOSPITAL, KAREENA PRIVATE HOSPITAL, KEMPSEY DISTRICT HOSPITAL, LISMORE BASE HOSPITAL, LIVERPOOL HOSPITAL, MACLEAN DISTRICT HOSPITAL, MAITLAND HOSPITAL, MATER HOSPITAL NORTH SYDNEY, MILTON-ULLADULLA HOSPITAL, MUDGEE DISTRICT HOSPITAL, MUSWELLBROOK HOSPITAL, NEPEAN HOSPITAL, NEWCASTLE MATER, NORTHERN BEACHES HOSPITAL, ORANGE HEALTH SERVICE, PARKES HOSPITAL, PORT MACQUARIE BASE HOSPITAL, PRINCE OF WALES HOSPITAL, ROYAL NORTH SHORE HOSPITAL, ROYAL PRINCE ALFRED HOSPITAL, RYDE HOSPITAL, SCOTT MEMORIAL HOSPITAL, SHELLHARBOUR HOSPITAL, SHOALHAVEN HOSPITAL, SINGLETON DISTRICT HOSPITAL, ST GEORGE HOSPITAL, ST VINCENT'S HOSPITAL SYDNEY, ST VINCENT'S PRIVATE HOSPITAL SYDNEY, SUTHERLAND HOSPITAL, SYDNEY ADVENTIST HOSPITAL, THE TWEED HOSPITAL, WAGGA WAGGA BASE HOSPITAL, WESTMEAD HOSPITAL, WESTMEAD PRIVATE HOSPITAL, WYONG HOSPITAL, YOUNG HEALTH SERVICE

**ACT:** CALVARY PUBLIC HOSPITAL BRUCE, CANBERRA HOSPITAL