

# Average length of stay data

This page explains the average length of stay measure used on this website and describes how the measure is calculated.

The average length of stay for a patient is the average number of days between admission and separation. MyHospitals presents average length of stay information relating only to overnight stays at public hospitals, for selected conditions and procedures. These are defined using the Australian Refined Diagnosis Related Group (AR-DRG) system version 6.0x, as follows:

Condition/procedure name	AR-DRG code
Chronic Obstructive Pulmonary Disease with complications	E65A
Chronic Obstructive Pulmonary Disease without complications	E65B
Heart Failure with complications	F62A
Heart Failure without complications	F62B
Appendix removal	G07B
Gallbladder removal	H08B
Hip replacement	I03B
Knee replacement	I04B
Cellulitis	J64B
Kidney and urinary tract infections with complications	L63A
Kidney and urinary tract infections without complications	L63B
Prostate removal	M02B
Hysterectomy	N04B
Gynaecological reconstructive procedures	N06B
Caesarean delivery	O01C
Vaginal delivery	O60B

Average length of stay is reported for conditions and procedures without complications unless otherwise specified.

## Hospital peer groups

Hospital peer grouping allows comparisons that reflect the purpose, resources and role of each hospital.

The hospital peer groups used on MyHospitals for average length of stay comparisons are based on the 2015 Australian hospital peer groups (AIHW, 2015). The following peer groups have been used:

<b>MyHospitals groups</b>	<b>AIHW 2015 hospital peer groupings</b>
Major hospitals	Principal referral
Large hospitals	Public acute group A
Medium hospitals	Public acute group B and public Women's hospitals
Small hospitals	Public acute group C
Children's hospitals	Public Children's hospitals and public Combined women's and children's hospitals

Hospitals that are not included in the above categories are considered 'Unpeered' in MyHospitals reports. 'Unpeered' hospitals are a diverse group of specialised hospitals, sub and non-acute hospitals, small hospitals and clinics.

**Note:**

Peer group results are only presented if there were more than 2 hospitals with stays for that condition or procedure in the peer group.

## For each condition or procedure

### Average length of stay

#### Data source

National Hospital Morbidity Database (NHMD)

#### About the measure

The average (mean) bed days for overnight stays at a public hospital for a given Australian Refined Diagnosis Related Group (AR-DRG).

#### Calculating the measure

'Number of overnight stays' refers to the number of stays that begin and end on different dates. A stay in hospital may be a complete hospital stay (to discharge, transfer, or death), or a part of the stay if there was a change of care type (for example from acute care to rehabilitation).

'Total overnight patient bed days' refers to the sum of the days from the beginning to the end of the stay, for overnight stays.

The average length of stay is calculated as the number of patient bed days for overnight stays divided by the number of overnight stays. The calculation excludes people who were transferred to another health care facility within two days, and people who died in hospital.

Only data which met certain criteria are included in the calculation. The criteria for calculating and presenting results are:

- Stays for acute care
- Stays that begin and end on different dates
- 50 or more overnight stays in the category (in the denominator)

After all the above rules were applied, a small number of exceptionally long stays were excluded as outliers, using this formula:

Outlier bound = 75th percentile + 10 \* (75th percentile - 25th percentile)

Stays longer than the outlier bound were excluded. Stays had to be longer than 20 days to be classed as outliers.

#### Note

Additional information on data quality (including efforts to improve data quality) can be found in the Admitted patient care 2018-19 Appendices.