

Number of lumbar spinal fusion (excluding lumbar spinal decompression) hospitalisations per 100,000 people, aged 18 years and over, 2012-13 to 2014-15 and 2015-16 to 2017-18

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Number of lumbar spinal fusion (excluding lumbar spinal decompression) hospitalisations per 100,000 people, aged 18 years and over, 2012-13 to 2014-15 and 2015-16 to 2017-18

Identifying and definitional attributes

Metadata item type:	Indicator
Indicator type:	Indicator
Short name:	Lumbar spinal fusion (excluding lumbar spinal decompression) hospitalisations, 18 years and over, 2012-13 to 2014-15 and 2015-16 to 2017-18
METEOR identifier:	736411
Registration status:	Australian Commission on Safety and Quality in Health Care , Standard 27/04/2021
Description:	Number of lumbar spinal fusion (excluding lumbar spinal decompression) hospitalisations per 100,000 people aged 18 years and over, age and sex-standardised.
Indicator set:	Australian Atlas of Healthcare Variation 2021 Australian Commission on Safety and Quality in Health Care , Standard 27/04/2021
Data quality statement:	Data quality statement: National Hospital Morbidity Database 2014–15 AIHW Data Quality Statements , Standard 31/08/2016

Collection and usage attributes

Population group age from: 18 years and over

Computation description:

Inclusion codes, description and additional requirement

ICD-10-AM (7th to 10th editions) diagnosis code	Description	Additional requirement
M43.16	Spondylolisthesis Lumbar region	Principal diagnosis
M43.17	Spondylolisthesis Lumbosacral region	Principal diagnosis
M48.06	Spinal stenosis Lumbar region	Principal diagnosis
M48.07	Spinal stenosis Lumbosacral region	Principal diagnosis
M51.0	Lumbar and other intervertebral disc disorders with myelopathy	Principal diagnosis
M51.1	Lumbar and other intervertebral disc disorders with radiculopathy	Principal diagnosis
M51.2	Other specified intervertebral disc displacement	Principal diagnosis
M54.16	Radiculopathy Lumbar region	Principal diagnosis
M54.17	Radiculopathy Lumbosacral region	Principal diagnosis

M54.4	Lumbago with sciatica	Principal diagnosis
M54.5	Low back pain	Principal diagnosis
M54.86	Other dorsalgia Lumbar region	Principal diagnosis
M54.87	Other dorsalgia Lumbosacral region	Principal diagnosis
M54.96	Dorsalgia, unspecified Lumbar region	Principal diagnosis
M54.97	Dorsalgia, unspecified Lumbosacral region	Principal diagnosis

Inclusion codes, description and additional requirement

ACHI (7th to 10th editions) procedure code.	Description	Additional requirement
40351-00 [47]	Anterior decompression of thoracolumbar spinal cord	Include records with at least one of the listed procedures. A record with more than one of the listed procedures is only counted once.
48660-00 [1389]	Anterior spinal fusion, 1 level	Include records with at least one of the listed procedures. A record with more than one of the listed procedures is only counted once.
48669-00 [1389]	Anterior spinal fusion, >=2 levels	Include records with at least one of the listed procedures. A record with more than one of the listed procedures is only counted once.
48642-00 [1389]	Posterior spinal fusion, 1 or 2 levels	Include records with at least one of the listed procedures. A record with more than one of the listed procedures is only counted once.
48645-00 [1389]	Posterior spinal fusion, >=3 levels	Include records with at least one of the listed procedures. A record with more than one of the listed procedures is only counted once.
48648-00 [1389]	Posterolateral spinal fusion, 1 or 2 levels	Include records with at least one of the listed procedures. A record with more than one of the listed procedures is only counted once.
48651-00 [1389]	Posterolateral spinal fusion, >=3 levels	Include records with at least one of the listed procedures. A record with more than one of the listed procedures is only counted once.
48654-00 [1389]	Posterior spinal fusion with laminectomy, 1 level	Include records with at least one of the listed procedures. A record with more than one of the listed procedures is only counted once.
48657-00 [1389]	Posterior spinal fusion with laminectomy, >=2 levels	Include records with at least one of the listed procedures. A record with more than one of the listed procedures is only counted once.
48654-01 [1389]	Posterolateral spinal fusion with laminectomy, 1 level	Include records with at least one of the listed procedures. A record with more than one of the listed procedures is only counted once.

48657-01 [1389]	Posterolateral spinal fusion with laminectomy, >=2 levels	Include records with at least one of the listed procedures. A record with more than one of the listed procedures is only counted once.
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Exclusion codes, description and additional requirement

ICD-10-AM (7th to 10th editions) diagnosis code	Description	Additional requirement
A00-B99	Certain infectious and parasitic diseases	Value of the condition onset flag is 2 (Condition not noted as arising during the episode of admitted patient care)
C00-D48	Neoplasms	Value of the condition onset flag is 2 (Condition not noted as arising during the episode of admitted patient care)
M40	Kyphosis and lordosis	Value of the condition onset flag is 2 (Condition not noted as arising during the episode of admitted patient care)
M41	Scoliosis	Value of the condition onset flag is 2 (Condition not noted as arising during the episode of admitted patient care)
V00-Y89	External causes of morbidity and mortality	Value of the condition onset flag is 2 (Condition not noted as arising during the episode of admitted patient care)

Exclusion codes and description

ACHI (7th to 10th editions) procedure code	Description
90024-00 [48]	Decompression of lumbar spinal canal, 1 level
90024-01 [48]	Decompression of lumbar spinal canal, >=2 levels
40330-00 [49]	Spinal rhizolysis
40303-00 [51]	Discectomy for recurrent disc lesion, 1 level
40303-01 [51]	Discectomy for recurrent disc lesion, 2 levels
48636-00 [52]	Percutaneous lumbar discectomy
40300-00 [52]	Discectomy, 1 level
40300-01 [52]	Discectomy, >= 2 levels

Exclusion codes and description

Care type	Description
7.3	Newborn—unqualified days only
9.0	Organ procurement—posthumous.
10.0	Hospital boarder

Presented as number of hospitalisations per 100,000 people.

Rates are directly age and sex standardised, to the 30 June 2001 Australian population aged 18 years and over, using 5-year age groups: 18-24, 25-29, ... , 80-84, 85 and over.

Population estimates at 31 December are calculated as an average of the 30 June population estimates before and after the relevant December to derive a midpoint (31 December) population estimate.

For more information about age-standardisation in general see glossary item [Age-standardised rate](#).

Analysis by state and territory is based on Statistical Area Level 2 (SA2) of usual residence of the patient.

Suppress data (number and rate) if at least one of the following conditions are met:

- the total denominator is less than 1,000
- the total numerator is less than 10

Age and sex standardised rates are also suppressed where the denominator for at least one of the age and sex groups used to calculate the rate is below 30.

Consequential suppression may be applied to preserve confidentialised data.

Computation:

$100,000 \times (\text{Numerator} \div \text{Denominator})$

Numerator:

Number of lumbar spinal fusion (excluding lumbar spinal decompression) hospitalisations aged 18 years and over, 2012-13 to 2014-15 and 2015-16 to 2017-18.

Numerator data elements:

Data Element / Data Set

[Episode of admitted patient care—admission date, DDMMYYYY](#)

Data Source

[National Hospital Morbidity Database \(NHMD\)](#)

Guide for use

NMDS/DSS: Admitted patient care NMDS 2012-13 to 2017-18
Data source type: Administrative by-product data

Data Element / Data Set

[Episode of care—principal diagnosis, code \(ICD-10-AM 9th edn\) ANN{.N\[N\]}](#)

Data Source

[National Hospital Morbidity Database \(NHMD\)](#)

NMDS / DSS

[Admitted patient care NMDS 2015-16](#)

Guide for use

Data source type: Administrative by-product data.

Data Element / Data Set

[Episode of care—principal diagnosis, code \(ICD-10-AM 9th edn\) ANN{.N\[N\]}](#)

Data Source

[National Hospital Morbidity Database \(NHMD\)](#)

NMDS / DSS

[Admitted patient care NMDS 2016-17](#)

Guide for use

Data source type: Administrative by-product data.

Data Element / Data Set

[Episode of admitted patient care—procedure, code \(ACHI 9th edn\) NNNNN-NN](#)

Data Source

[National Hospital Morbidity Database \(NHMD\)](#)

NMDS / DSS

[Admitted patient care NMDS 2015-16](#)

Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

[Episode of admitted patient care—procedure, code \(ACHI 9th edn\) NNNNN-NN](#)

Data Source

[National Hospital Morbidity Database \(NHMD\)](#)

NMDS / DSS

[Admitted patient care NMDS 2016-17](#)

Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

[Person—sex, code A](#)

Data Source

[National Hospital Morbidity Database \(NHMD\)](#)

Guide for use

NMDS/DSS: Admitted patient care NMDS 2012-13 to 2017-18

Data source type: Administrative by-product data

Data Element / Data Set

[Episode of admitted patient care—procedure, code \(ACHI 10th edn\) NNNNN-NN](#)

Data Source

[National Hospital Morbidity Database \(NHMD\)](#)

NMDS / DSS

[Admitted patient care NMDS 2017-18](#)

Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

[Episode of admitted patient care—condition onset flag, code N](#)

Data Source

[National Hospital Morbidity Database \(NHMD\)](#)

Guide for use

NMDS/DSS: Admitted patient care NMDS 2012-13 to 2017-18
Data source type: Administrative by-product data

Data Element / Data Set

[Episode of care—principal diagnosis, code \(ICD-10-AM 10th edn\) ANN{.N\[N\]}](#)

Data Source

[National Hospital Morbidity Database \(NHMD\)](#)

NMDS / DSS

[Admitted patient care NMDS 2017-18](#)

Guide for use

Data source type: Administrative by-product data.

Data Element / Data Set

[Person—date of birth, DDMMYYYY](#)

Data Source

[National Hospital Morbidity Database \(NHMD\)](#)

Guide for use

NMDS/DSS: Admitted patient care NMDS 2012-13 to 2017-18
Data source type: Administrative by-product data

Data Element / Data Set

[Episode of care—principal diagnosis, code \(ICD-10-AM 7th edn\) ANN{.N\[N\]}](#)

Data Source

[National Hospital Morbidity Database \(NHMD\)](#)

NMDS / DSS

[Admitted patient care NMDS 2012-13](#)

Guide for use

Data source type: Administrative by-product data.

Data Element / Data Set

[Episode of admitted patient care—procedure, code \(ACHI 7th edn\) NNNNN-
NN](#)

Data Source

[National Hospital Morbidity Database \(NHMD\)](#)

NMDS / DSS

[Admitted patient care NMDS 2012-13](#)

Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

[Episode of admitted patient care—procedure, code \(ACHI 8th edn\) NNNNN-NN](#)

Data Source

[National Hospital Morbidity Database \(NHMD\)](#)

NMDS / DSS

[Admitted patient care NMDS 2013-14](#)

Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

[Episode of admitted patient care—procedure, code \(ACHI 8th edn\) NNNNN-NN](#)

Data Source

[National Hospital Morbidity Database \(NHMD\)](#)

NMDS / DSS

[Admitted patient care NMDS 2014-15](#)

Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

[Episode of care—principal diagnosis, code \(ICD-10-AM 8th edn\) ANN{.N\[N\]}](#)

Data Source

[National Hospital Morbidity Database \(NHMD\)](#)

NMDS / DSS

[Admitted patient care NMDS 2013-14](#)

Guide for use

Data source type: Administrative by-product data.

Data Element / Data Set

[Episode of care—principal diagnosis, code \(ICD-10-AM 8th edn\) ANN{.N\[N\]}](#)

Data Source

[National Hospital Morbidity Database \(NHMD\)](#)

NMDS / DSS

[Admitted patient care NMDS 2014-15](#)

Guide for use

Data source type: Administrative by-product data.

Data Element / Data Set

[Hospital service—care type, code N\[N\]](#)

Data Source

[National Hospital Morbidity Database \(NHMD\)](#)

Guide for use

NMDS/DSS: Admitted patient care NMDS 2012-13 to 2017-18
Data source type: Administrative by-product data

Denominator:

Sum of population aged 18 years and over as at:

- 31 December 2012, 31 December 2013 and 31 December 2014
- 31 December 2015, 31 December 2016 and 31 December 2017

Denominator data elements:

Data Element / Data Set

[Person—estimated resident population of Australia, total people N\[N\(7\)\]](#)

Data Source

[ABS Australian Demographic Statistics](#)

Guide for use

Data source type: Census based plus administrative by-product data.

Disaggregation:

State and territory by:

- Patient funding status
- Age group (18-64 years, 65-74 years, 75-84 years, 85 years and over)

Disaggregation data elements:

Data Element / Data Set

[Episode of admitted patient care—admission date, DDMMYYYY](#)

Data Source

[National Hospital Morbidity Database \(NHMD\)](#)

Data Element / Data Set

[Establishment—sector, code N](#)

Data Source

[National Hospital Morbidity Database \(NHMD\)](#)

Guide for use

For more information about the patient funding status, see the [Technical Supplement of the Fourth Atlas](#).

Data source type: Administrative by-product data.

Data Element / Data Set

[Person—date of birth, DDMMYYYY](#)

Data Source

[National Hospital Morbidity Database \(NHMD\)](#)

Data Element / Data Set

[Episode of admitted patient care—patient election status, code N](#)

Data Source

[National Hospital Morbidity Database \(NHMD\)](#)

Data Element / Data Set

[Episode of care—source of funding, patient funding source code NN](#)

Data Source

[National Hospital Morbidity Database \(NHMD\)](#)

Data Element / Data Set

[Person—area of usual residence, statistical area level 2 \(SA2\) code \(ASGS 2016\) N\(9\)](#)

Data Source

[National Hospital Morbidity Database \(NHMD\)](#)

Representational attributes

Representation class:	Rate
Data type:	Integer
Unit of measure:	Episode
Format:	N[NNNN]

Data source attributes

Data sources:**Data Source**

[ABS Australian Demographic Statistics](#)

Frequency

Quarterly

Data custodian

Australian Bureau of Statistics

Data Source

[National Hospital Morbidity Database \(NHMD\)](#)

Frequency

Annual

Data custodian

Australian Institute of Health and Welfare

Accountability attributes**Methodology:**

The scope of the NHMD is episodes of care for admitted patients in all public and private acute and psychiatric hospitals, free-standing day hospital facilities and alcohol and drug treatment centres in Australia. Hospitals operated by the Australian Defence Force, corrections authorities and in Australia's off-shore territories are not in scope, but some are included.

Reporting requirements:

Australian Commission on Safety and Quality in Health Care

Australian Atlas of Healthcare Variation 2021

Organisation responsible for providing data:

Australian Institute of Health and Welfare

Accountability:

Australian Commission on Safety and Quality in Health Care

Release date:

28/04/2021

Source and reference attributes**Submitting organisation:**

Australian Commission on Safety and Quality in Health Care

Relational attributes

**Related metadata
references:**

- See also [ABS Estimated resident population \(total population\), QS Health](#), Standard 08/06/2011
- See also [ABS Indigenous experimental estimates and projections, QS Health](#), Standard 08/06/2011
[Indigenous](#), Standard 11/09/2012
- See also [Australian Atlas of Healthcare Variation: Number of lumbar spinal fusion \(excluding lumbar spinal decompression\) hospitalisations per 100,000 people, aged 18 years and over, 2012-13 to 2014-15](#)
Australian Commission on Safety and Quality in Health Care, Standard 07/06/2017
- See also [Australian Atlas of Healthcare Variation: Number of lumbar spinal fusion hospitalisations per 100,000 people, aged 18 years and over, 2012-13 to 2014-15](#)
Australian Commission on Safety and Quality in Health Care, Standard 07/06/2017
- See also [Data quality statement: Admitted Patient Care 2015-16](#)
AIHW Data Quality Statements, Standard 27/11/2019
- See also [Data quality statement: Admitted Patient Care 2016-17](#)
AIHW Data Quality Statements, Standard 27/11/2019
- See also [Data quality statement: Admitted Patient Care 2017-18](#)
AIHW Data Quality Statements, Standard 27/11/2019
- See also [Data quality statement: National Hospital Morbidity Database 2013–14](#)
AIHW Data Quality Statements, Standard 03/06/2015
- See also [Data quality statement: National Hospital Morbidity Database 2014–15](#)
AIHW Data Quality Statements, Standard 31/08/2016