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

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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

Identifying and definitional attributes

Metadata item type: Indicator

Indicator type: Indicator

Short name: Lumbar spinal fusion hospitalisations 18 years and over, 2012-13 to 2014-15

METEOR identifier: 639980

Registration status: Australian Commission on Safety and Quality in Health Care, Standard 07/06/2017

Description: Number of lumbar spinal fusion hospitalisations per 100,000 people aged 18 yers and over, age and sex standardised. Data are disaggregated by the area in which the person lives.

Indicator set: Australian Atlas of Healthcare Variation 2017
Australian Commission on Safety and Quality in Health Care, Standard 07/06/2017

Collection and usage attributes

Population group age from: 18 years and over

Computation description: **Inclusion codes, description and additional requirement**

ICD-10-AM (7th and 8th edition) code	Description	Additional requirement
M43.16	Spondylolisthesis Lumbar region	Principal diagnosis
M43.17	Spondylolisthesis Lumbosacral region	
M48.06	Spinal stenosis Lumbar region	
M48.07	Spinal stenosis Lumbosacral region	
M51.0	Lumbar and other intervertebral disc disorders with myelopathy	
M51.1	Lumbar and other intervertebral disc disorders with radiculopathy	
M51.2	Other specified intervertebral disc displacement	
M54.16	Radiculopathy Lumbar region	
M54.17	Radiculopathy Lumbosacral region	
M54.4	Lumbago with sciatica	

M54.5	Low back pain	
M54.86	Other dorsalgia Lumbar region	
M54.87	Other dorsalgia Lumbosacral region	
M54.96	Dorsalgia, unspecified Lumbar region	
M54.97	Dorsalgia, unspecified Lumbosacral region	

ACHI (7th and 8th edition) 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	
48669-00 [1389]	Anterior spinal fusion, >=2 levels	
48642-00 [1389]	Posterior spinal fusion, 1 or 2 levels	
48645-00 [1389]	Posterior spinal fusion, >=3 levels	
48648-00 [1389]	Posterolateral spinal fusion, 1 or 2 levels	
48651-00 [1389]	Posterolateral spinal fusion, >=3 levels	
48654-00 [1389]	Posterior spinal fusion with laminectomy, 1 level	
48657-00 [1389]	Posterior spinal fusion with laminectomy, >=2 levels	
48654-01 [1389]	Posterolateral spinal fusion with laminectomy, 1 level	
48657-01 [1389]	Posterolateral spinal fusion with laminectomy, >=2 levels	

Exclusion codes and description

ICD-10-AM (7th and 8th edition) code	Description
V00-Y89	External causes of morbidity and mortality

Exclusion codes and description

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

Presented as a number per 100,000 people.

Rates are directly age and sex standardised, to the 2001 Australian population aged 18 years and over, using age groups: 18-24, 25-29, … , 80-84, 85 and over. Indigenous and other Australian rates are directly age and sex standardised, to the 2001 Australian population aged 18 years and over, using age groups: 18-24, 25-29, … , 60-64, 65 and over.

For more information about age-standardisation in general see /content/index.phtml/itemId/327276

Analysis by Statistical Area Level 3 (SA3) is based on Statistical Area Level 2 (SA2) of usual residence of the patient.

Suppress data (number or 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 suppressed where the denominator for at least one of the age and sex groups used to calculate the rate is below 30.

Computation: 100,000 × (Numerator ÷ Denominator)

Numerator: Number of lumbar spinal fusion hospitalisations aged 18 years and over

Numerator data elements:

Data Element / Data Set

Person—date of birth, DDMMYYYY

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

Hospital service—care type, code 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

Hospital service—care type, code 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

Hospital service—care type, code 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

Person—date of birth, DDMMYYYY

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

Person—date of birth, DDMMYYYY

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 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

Denominator:

Sum of population aged 18 years and over as at 30 June 2012, 30 June 2013 and 30 June 2014.

Denominator data elements:

Data Element / Data Set

Data Element

Person—estimated resident population of Australia

Data Source

ABS Indigenous experimental estimates and projections (2001 Census-based)

Guide for use

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

Data Element / Data Set

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

Data Source

ABS Estimated resident population (total population)

Guide for use

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

Disaggregation:

SA3 by:

- Remoteness (ASGC Remoteness structure) and Socio-Economic Indexes for Areas (SEIFA) Index of Relative Socioeconomic Disadvantage (IRSD)

State and territory by:

- Indigenous status
- Patient funding status

Disaggregation data elements:

Data Element / Data Set

Person—area of usual residence, statistical area level 2 (SA2) code (ASGS 2011) 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 Indigenous experimental estimates and projections (2001 Census-based)

Frequency

Periodic

Data quality statement

ABS Indigenous experimental estimates and projections, QS

Data custodian

Australian Bureau of Statistics

Data Source

National Hospital Morbidity Database (NHMD)

Frequency

Annual

Data custodian

Australian Institute of Health and Welfare

Data Source

ABS Estimated resident population (total population)

Frequency

Quarterly

Data quality statement

ABS Estimated resident population (total population), QS

Data custodian

Australian Bureau of Statistics

Accountability attributes

Methodology:	Statistical Area Level 3 (SA3s) are geographic areas defined in the ABS Australian Statistical Geography Standard (ASGS). The aim of SA3s is to create a standard framework for the analysis of ABS data at the regional level through clustering groups of SA2s that have similar regional characteristics. There are 333 spatial SA3s covering the whole of Australia without gaps or overlaps. They are designed to provide a regional breakdown of Australia. SA3s generally have a population of between 30,000 and 130,000 people. There are approximately 50 with fewer than 30,000 people and 35 with more than 130,000 as at 30 June 2011. For further information see the ABS publication, Australian Statistical Geography Standard (ASGS): Volume 1 – Main Structure and Greater Capital City Statistical Areas, July 2011 (cat. no. 1270.0.55.001). 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. Private hospitals include private free-standing day hospital facilities and other private hospitals (which also include private psychiatric hospitals). ACHI and ICD-10-AM 7th edition were used for 2012–13 data and ACHI and ICD-10-AM 8th edition were used for 2013–14 and 2014–15 data.
Reporting requirements:	Australian Commission on Safety and Quality in Health Care *Australian Atlas of Healthcare Variation*
Organisation responsible for providing data:	Australian Institute of Health and Welfare
Accountability:	Australian Commission on Safety and Quality in Health Care
Release date:	07/06/2017

Source and reference attributes

Submitting organisation:	Australian Commission on Safety and Quality in Health Care

Relational attributes

Related metadata references:	See also 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 Australian Commission on Safety and Quality in Health Care, Standard 27/04/2021 See also Number of lumbar spinal fusion (with or without lumbar spinal decompression) hospitalisations per 100,000 people, aged 18 years and over, 2012-13 to 2014-15 and 2015-16 to 2017-18 Australian Commission on Safety and Quality in Health Care, Standard 27/04/2021