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

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| 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](https://meteor.aihw.gov.au/RegistrationAuthority/18), Standard 27/04/2021 |
| Description: | Number of lumbar spinal fusion (exlcuding 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](https://meteor.aihw.gov.au/content/723541)       [Australian Commission on Safety and Quality in Health Care](https://meteor.aihw.gov.au/RegistrationAuthority/18), Standard 27/04/2021 |
| Data quality statement: | [Data quality statement: National Hospital Morbidity Database 2014–15](https://meteor.aihw.gov.au/content/638202)       [AIHW Data Quality Statements](https://meteor.aihw.gov.au/RegistrationAuthority/5), Standard 31/08/2016 |

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| Collection and usage attributes |
| Population group age from: | 18 years and over |
| Computation description: |

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| **Inclusion codes, description and additional requirement**

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| **ICD-10-AM (7th to 10th editions) diagnosis code** | **Description** | **Additional requirement** |
| M43.16 | Spondylolisthesis Lumbar region | Principal diagnosis |
| M43.17 | Spondylolisthesis Lumbosacralregion | 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 discdisorders 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 Lumbarregion | Principal diagnosis |
| M54.97 | Dorsalgia, unspecified Lumbosacral region | Principal diagnosis |

**Inclusion codes, description and additional requirement**

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| **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. |

**Exclusion codes, description and additional requirement**

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| **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**

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| **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**

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| **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.**](https://meteor.aihw.gov.au/content/327276) 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 10Age 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. |

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| Computation: |

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| 100,000 × (Numerator ÷ Denominator) |

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| 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](https://meteor.aihw.gov.au/content/269967)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**Guide for use** **NMDS/DSS:** Admitted patient care NMDS 2012-13 to 2017-18Data source type: Administrative by-product data **Data Element / Data Set**[Episode of care—principal diagnosis, code (ICD-10-AM 9th edn) ANN{.N[N]}](https://meteor.aihw.gov.au/content/588987)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**NMDS / DSS**[Admitted patient care NMDS 2015-16](https://meteor.aihw.gov.au/content/588909)**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]}](https://meteor.aihw.gov.au/content/588987)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**NMDS / DSS**[Admitted patient care NMDS 2016-17](https://meteor.aihw.gov.au/content/612171)**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](https://meteor.aihw.gov.au/content/589101)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**NMDS / DSS**[Admitted patient care NMDS 2015-16](https://meteor.aihw.gov.au/content/588909)**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](https://meteor.aihw.gov.au/content/589101)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**NMDS / DSS**[Admitted patient care NMDS 2016-17](https://meteor.aihw.gov.au/content/612171)**Guide for use** Data source type: Administrative by-product data **Data Element / Data Set**[Person—sex, code A](https://meteor.aihw.gov.au/content/602450)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**Guide for use** **NMDS/DSS:** Admitted patient care NMDS 2012-13 to 2017-18Data source type:Administrative by-product data **Data Element / Data Set**[Episode of admitted patient care—procedure, code (ACHI 10th edn) NNNNN-NN](https://meteor.aihw.gov.au/content/641379)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**NMDS / DSS**[Admitted patient care NMDS 2017-18](https://meteor.aihw.gov.au/content/641349)**Guide for use** Data source type: Administrative by-product data **Data Element / Data Set**[Episode of admitted patient care—condition onset flag, code N](https://meteor.aihw.gov.au/content/651997)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**Guide for use** **NMDS/DSS:** Admitted patient care NMDS 2012-13 to 2017-18Data source type:Administrative by-product data **Data Element / Data Set**[Episode of care—principal diagnosis, code (ICD-10-AM 10th edn) ANN{.N[N]}](https://meteor.aihw.gov.au/content/680976)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**NMDS / DSS**[Admitted patient care NMDS 2017-18](https://meteor.aihw.gov.au/content/641349)**Guide for use** Data source type: Administrative by-product data. **Data Element / Data Set**[Person—date of birth, DDMMYYYY](https://meteor.aihw.gov.au/content/287007)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**Guide for use** **NMDS/DSS:** Admitted patient care NMDS 2012-13 to 2017-18Data source type: Administrative by-product data **Data Element / Data Set**[Episode of care—principal diagnosis, code (ICD-10-AM 7th edn) ANN{.N[N]}](https://meteor.aihw.gov.au/content/391326)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**NMDS / DSS**[Admitted patient care NMDS 2012-13](https://meteor.aihw.gov.au/content/466132)**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](https://meteor.aihw.gov.au/content/391349)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**NMDS / DSS**[Admitted patient care NMDS 2012-13](https://meteor.aihw.gov.au/content/466132)**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](https://meteor.aihw.gov.au/content/514040)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**NMDS / DSS**[Admitted patient care NMDS 2013-14](https://meteor.aihw.gov.au/content/491555)**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](https://meteor.aihw.gov.au/content/514040)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**NMDS / DSS**[Admitted patient care NMDS 2014-15](https://meteor.aihw.gov.au/content/535047)**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]}](https://meteor.aihw.gov.au/content/514273)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**NMDS / DSS**[Admitted patient care NMDS 2013-14](https://meteor.aihw.gov.au/content/491555)**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]}](https://meteor.aihw.gov.au/content/514273)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**NMDS / DSS**[Admitted patient care NMDS 2014-15](https://meteor.aihw.gov.au/content/535047)**Guide for use** Data source type: Administrative by-product data. **Data Element / Data Set**[Hospital service—care type, code N[N]](https://meteor.aihw.gov.au/content/584408)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**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)]](https://meteor.aihw.gov.au/content/388656)**Data Source**[ABS Australian Demographic Statistics](https://meteor.aihw.gov.au/content/657459)**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](https://meteor.aihw.gov.au/content/269967)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**Data Element / Data Set**[Establishment—sector, code N](https://meteor.aihw.gov.au/content/269977)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**Guide for use** For more information about the patient funding status, see the [Technical Supplement of the Fourth Atlas](https://safetyandquality.gov.au/publications-and-resources/resource-library/fourth-atlas-2021-technical-supplement).Data source type:Administrative by-product data. **Data Element / Data Set**[Person—date of birth, DDMMYYYY](https://meteor.aihw.gov.au/content/287007)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**Data Element / Data Set**[Episode of admitted patient care—patient election status, code N](https://meteor.aihw.gov.au/content/326619)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**Data Element / Data Set**[Episode of care—source of funding, patient funding source code NN](https://meteor.aihw.gov.au/content/649391)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**Data Element / Data Set**[Person—area of usual residence, statistical area level 2 (SA2) code (ASGS 2016) N(9)](https://meteor.aihw.gov.au/content/659725)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352) |
| 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](https://meteor.aihw.gov.au/content/657459)**Frequency**Quarterly**Data custodian** Australian Bureau of Statistics **Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**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](https://meteor.aihw.gov.au/content/449216)       [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Standard 08/06/2011See also [ABS Indigenous experimental estimates and projections, QS](https://meteor.aihw.gov.au/content/449223)       [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Standard 08/06/2011       [Indigenous](https://meteor.aihw.gov.au/RegistrationAuthority/6), Standard 11/09/2012See 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](https://meteor.aihw.gov.au/content/675493)       [Australian Commission on Safety and Quality in Health Care](https://meteor.aihw.gov.au/RegistrationAuthority/18), Standard 07/06/2017See 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](https://meteor.aihw.gov.au/content/639980)       [Australian Commission on Safety and Quality in Health Care](https://meteor.aihw.gov.au/RegistrationAuthority/18), Standard 07/06/2017See also [Data quality statement: Admitted Patient Care 2015-16](https://meteor.aihw.gov.au/content/723825)       [AIHW Data Quality Statements](https://meteor.aihw.gov.au/RegistrationAuthority/5), Standard 27/11/2019See also [Data quality statement: Admitted Patient Care 2016-17](https://meteor.aihw.gov.au/content/724186)       [AIHW Data Quality Statements](https://meteor.aihw.gov.au/RegistrationAuthority/5), Standard 27/11/2019See also [Data quality statement: Admitted Patient Care 2017-18](https://meteor.aihw.gov.au/content/724188)       [AIHW Data Quality Statements](https://meteor.aihw.gov.au/RegistrationAuthority/5), Standard 27/11/2019See also [Data quality statement: National Hospital Morbidity Database 2013–14](https://meteor.aihw.gov.au/content/611030)       [AIHW Data Quality Statements](https://meteor.aihw.gov.au/RegistrationAuthority/5), Standard 03/06/2015See also [Data quality statement: National Hospital Morbidity Database 2014–15](https://meteor.aihw.gov.au/content/638202)       [AIHW Data Quality Statements](https://meteor.aihw.gov.au/RegistrationAuthority/5), Standard 31/08/2016 |