Australian Atlas of Healthcare Variation: Number of acute myocardial infarction hospitalisations with percutaneous coronary interventions and/or coronary artery bypass graft per 100,000 people, 35-84 years, 2014-15

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# Australian Atlas of Healthcare Variation: Number of acute myocardial infarction hospitalisations with percutaneous coronary interventions and/or coronary artery bypass graft per 100,000 people, 35-84 years, 2014-15

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| Identifying and definitional attributes | |
| Metadata item type: | Indicator |
| Indicator type: | Indicator |
| Short name: | AMI hospitalisations with percutaneous coronary interventions and/or coronary bypass graft interventions 35-84 years, 2014-15 |
| METEOR identifier: | 640170 |
| Registration status: | [Australian Commission on Safety and Quality in Health Care](https://meteor.aihw.gov.au/RegistrationAuthority/18), Standard 07/06/2017 |
| Description: | Number ofacute myocardial infarction hospitalisations with percutaneous coronary and/or coronary artery bypass graft interventions per 100,000 people aged 35-84 years, age and sex standardised. Data are disaggregated by the area in which the person lives. |
| Indicator set: | [Australian Atlas of Healthcare Variation 2017](https://meteor.aihw.gov.au/content/674758)  [Australian Commission on Safety and Quality in Health Care](https://meteor.aihw.gov.au/RegistrationAuthority/18), Standard 07/06/2017 |

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| Collection and usage attributes | |
| Population group age from: | 35-84 years |
| Computation description: | **Inclusion codes, description and additional requirements**   |  |  |  | | --- | --- | --- | | **ICD-10-AM  8th edn code** | **Description** | **Additional requirements** | | I21.0 | Acute transmural myocardial infarction of anterior wall | Principal diagnosis | | I21.1 | Acute transmural myocardial infarction of inferior wall | | I21.2 | Acute transmural myocardial infarction of other sites | | I21.3 | Acute transmural myocardial infarction of unspecified site | | I21.4 | Acute subendocardial myocardial infarction | | I21.9 | Acute myocardial infarction, unspecified |      |  |  |  | | --- | --- | --- | | **ACHI 8th edition code** | **Description** | **Additional requirements** | | 38505–00 [669] | Open coronary endarterectomy | Include records with at least one of the listed procedures. A record with more than one of the listed procedures should only be counted once. | | 38309–00 [669] | Percutaneous transluminal coronary rotational atherectomy [PTCRA], 1 artery | | 38312–00 [669] | Percutaneous transluminal coronary rotational atherectomy [PTCRA], 1 artery with insertion of 1 stent | | 38312–01 [669] | Percutaneous transluminal coronary rotational atherectomy [PTCRA], 1 artery with insertion of >=2 stents | | 38315–00 [669] | Percutaneous transluminal coronary rotational atherectomy [PTCRA], multiple arteries | | 38318–00 [669] | Percutaneous transluminal coronary rotational atherectomy [PTCRA], multiple arteries  with insertion of 1 stent | | 38318–01 [669] | Percutaneous transluminal coronary rotational atherectomy [PTCRA], multiple arteries with insertion of >= 2 stents | | 90218-00 [669] | Percutaneous transluminal coronary angioplasty with aspiration thrombectomy, 1 artery | | 90218-01 [669] | Percutaneous transluminal coronary angioplasty with aspiration thrombectomy, multiple arteries | | 90218-02 [669] | Percutaneous transluminal coronary angioplasty with embolic protection device, 1 artery | | 90218-03 [669] | Percutaneous transluminal coronary angioplasty with embolic protection device, multiple arteries | | 38300–00[670] | Percutaneous transluminal balloon angioplasty of 1 coronary artery | | 38303–00[670] | Percutaneous transluminal balloon angioplasty of ≥2 coronary arteries | | 38300–01 [670] | Open transluminal balloon angioplasty of 1 coronary artery | | 38303–01 [670] | Open transluminal balloon angioplasty of ≥2 coronary arteries | | 38306–00 [671] | Percutaneous insertion of 1 transluminal stent into single coronary artery | | 38306–01 [671] | Percutaneous insertion of ≥2 transluminal stents into single coronary artery | | 38306–02 [671] | Percutaneous insertion of ≥2 transluminal stents into multiple coronary arteries | | 38306–03 [671] | Open insertion of 1 transluminal stent into single coronary arter | | 38306–04[671] | Open insertion of ≥2 transluminal stents into single coronary artery | | 38306–05 [671] | Open insertion of ≥2 transluminal stents into multiple coronary arteries | | 38497-00 [672] | Coronary artery bypass, using 1 saphenous vein graft | | 38497-01 [672] | Coronary artery bypass, using 2 saphenous vein grafts | | 38497-02 [672] | Coronary artery bypass, using 3 saphenous vein grafts | | 38497-03 [672] | Coronary artery bypass, using ≥4 saphenous vein grafts | | 38497-04 [673] | Coronary artery bypass, using 1 other venous graft | | 38497-05 [673] | Coronary artery bypass, using 2 other venous grafts | | 38497-06 [673] | Coronary artery bypass, using 3 other venous grafts | | 38497- 07[673] | Coronary artery bypass, using ≥4 other venous grafts | | 38500-00 [674] | Coronary artery bypass, using 1 LIMA graft | | 38503-00 [674] | Coronary artery bypass, using ≥2 LIMA grafts | | 38500-01 [675] | Coronary artery bypass, using 1 RIMA graft | | 38503-01 [675] | Coronary artery bypass, using ≥2 RIMA grafts | | 38500-02 [676] | Coronary artery bypass, using 1 radial artery graft | | 38503-02 [676] | Coronary artery bypass, using ≥2 radial artery grafts | | 38500-03 [677] | Coronary artery bypass, using 1 epigastric artery graft | | 38503-03 [677] | Coronary artery bypass, using ≥2 epigastric artery grafts | | 38500-04 [678] | Coronary artery bypass, using 1 other arterial graft | | 38503-04 [678] | Coronary artery bypass, using ≥2 other arterial grafts | | 38500-05 [679] | Coronary artery bypass, using 1 composite graft | | 38503-05 [679] | Coronary artery bypass, using ≥2 composite grafts | | 90201-00 [679] | Coronary artery bypass, using 1 other graft, not elsewhere classified | | 90201-01 [679] | Coronary artery bypass, using 2 other grafts, not elsewhere classified | | 90201-02 [679] | Coronary artery bypass, using 3 other grafts, not elsewhere classified | | 90201-03 [679] | Coronary artery bypass, using ≥4 other grafts, not elsewhere classified | |  |  |  |      |  |  | | --- | --- | | **Care type** | **Description** | | 1 | Acute care |     Presented as a number per 100,000 people.    Rates are directly age- and sex- standardised, to the 2001 Australian population aged 35-84, using 5-year age groups: 35-39, 40-44, … , 80-84.  Indigenous and other Australian rates are directly age and sex standardised, to the 2001 Australian population aged 35-84, using 5-year age groups: 35-39, 40-44, … , 60–64, 65-84.  For more information about age-standardisation in general see [/content/index.phtml/itemId/327276](https://meteor.aihw.gov.au/content/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 20  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 acute myocardial infarction hospitalisations with percutaneous coronary interventions and/or coronary artery bypass graft, 35-84 years |
| Numerator data elements: | **Data Element / Data Set**  [Hospital service—care type, code N[N]](https://meteor.aihw.gov.au/content/491557)  **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)    **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—additional diagnosis, code (ICD-10-AM 8th edn) ANN{.N[N]}](https://meteor.aihw.gov.au/content/514271)  **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. |
| Denominator: | Total population aged 35 to 84 years as at 30 June, 2014. |
| Denominator data elements: | **Data Element / Data Set**  Person—estimated resident population of Australia  **Data Source**  [ABS Indigenous experimental estimates and projections (2001 Census-based)](https://meteor.aihw.gov.au/content/394092)    **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 Estimated resident population (total population)](https://meteor.aihw.gov.au/content/393625)  **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)](https://meteor.aihw.gov.au/content/469909)  **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 Indigenous experimental estimates and projections (2001 Census-based)](https://meteor.aihw.gov.au/content/394092)  **Frequency**  Periodic  **Data quality statement**  [ABS Indigenous experimental estimates and projections, QS](https://meteor.aihw.gov.au/content/449223)  **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    **Data Source**  [ABS Estimated resident population (total population)](https://meteor.aihw.gov.au/content/393625)  **Frequency**  Quarterly  **Data quality statement**  [ABS Estimated resident population (total population), QS](https://meteor.aihw.gov.au/content/449216)  **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).    For additional context, the proportion of hospitalisations involving a transfer to another acute hospital (mode of separation = 1) was also provided. |
| Formulae: | [Data quality statement: National Hospital Morbidity Database 2014–15](https://meteor.aihw.gov.au/content/638202) |
| 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 |