

# Australian Health Performance Framework: PI 3.1.1— Incidence of heart attacks (acute coronary events), 2019

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# Australian Health Performance Framework: PI 3.1.1—Incidence of heart attacks (acute coronary events), 2019

## Identifying and definitional attributes

|                             |  |
|-----------------------------|--|
| <b>Metadata item type:</b>  | Indicator  |
| <b>Indicator type:</b>      | Indicator  |
| <b>Short name:</b>          | AHPF PI 3.1.1—Incidence of heart attacks (acute coronary events), 2019   |
| <b>METEOR identifier:</b>   | 715234   |
| <b>Registration status:</b> | <a href="#">Health!</a> , Standard 09/04/2020  |
| <b>Description:</b>         | Incidence of acute coronary events (acute myocardial infarction and unstable angina).  |
| <b>Rationale:</b>           | Acute coronary events are a form of coronary heart disease, which is one of the leading causes of disease burden in Australia. Monitoring the incidence of acute coronary events provides a measure of the burden of acute coronary heart disease in the population and informs health service planning. |
| <b>Indicator set:</b>       | <a href="#">Australian Health Performance Framework, 2019</a><br><a href="#">Health!</a> , Standard 09/04/2020   |

## Collection and usage attributes

|                                   |  |
|-----------------------------------|--|
| <b>Population group age from:</b> | 25 years   |
| <b>Computation description:</b>   | <p>Rates are directly age-standardised to the 2001 Australian population.</p> <p>Count (a) number of deaths where 'acute coronary heart disease' (International Classification of Diseases 10th Revision (ICD-10) codes I20–I24) is the underlying cause of death in each calendar year (based on year of registration of death).</p> <p>Count (b) number of non-fatal hospitalisations where 'acute myocardial infarction' (ICD-10-AM I21) or 'unstable angina' (ICD-10-AM I20.0) is the principal diagnosis, and separation mode is not equal to 'died' or 'transferred to another acute hospital', and care type is not equal to <i>Newborns without qualified days or posthumous organ procurement or hospital boarder</i> in each calendar year (based on discharge date from hospital).</p> <p>The number of acute coronary events is estimated by (a) + (b).</p> <p>Presented as a number per 100,000 population.</p> |
| <b>Computation:</b>               | $100,000 \times (\text{Numerator} \div \text{Denominator})$  |
| <b>Numerator:</b>                 | Sum of count a (the number of deaths recorded with an underlying cause of acute coronary heart disease) and count b (the number of non-fatal hospitalisations with a principal diagnosis of acute myocardial infarction or unstable angina that do not end in death or a transfer to another acute hospital) for ages 25 years and over.   |

### Numerator data elements:

#### Data Element / Data Set

Person—underlying cause of death, code (ICD-10) ANN{.N}

#### Data Source

[AIHW National Mortality Database](#)

#### 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 2016-17](#)

**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 2017-18](#)

**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 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 death, DDMMYYYY](#)

**Data Source**

[AIHW National Mortality Database](#)

**Guide for use**

Data source type: Administrative by-product data

**Data Element / Data Set**

Person—year of registration of death, (YYYY)

**Data Source**

[AIHW National Mortality Database](#)

**Guide for use**

Data source type: Administrative by-product data

**Data Element / Data Set**

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

**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—separation date, DDMMYYYY](#)

**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—separation mode, code 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**

[Episode of admitted patient care—separation mode, code N](#)

**Data Source**

[AIHW National Mortality Database](#)

**NMDS / DSS**

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

**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 2016-17](#)

**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 2017-18](#)

**Guide for use**

Data source type: Administrative by-product data

**Data Element / Data Set**

[Person—age range, code NN](#)

**Data Source**

[AIHW National Mortality Database](#)

**Guide for use**

Data source type: Administrative by-product data

**Denominator:**

Total population aged 25 years and over for calendar year in question.

**Denominator data elements:**

**Data Element / Data Set**

[Person—age, total years N\[NN\]](#)

**Data Source**

[ABS Estimated resident population \(2016 Census-based\)](#)

**Guide for use**

Data source type: Census-based data 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 \(2016 Census-based\)](#)

**Guide for use**

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

**Disaggregation:**

2007 to 2017—Nationally by:

- Age group (25–34, 35–44, 45–54, 55–64, 65–74, 75–84, 85+) and sex.

2007 to 2017—State/territory of usual residence.

**Disaggregation data elements:**

**Data Element / Data Set**

[Person—sex, code 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**

[Person—sex, code 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—sex, code N](#)

**Data Source**

[AIHW National Mortality Database](#)

**Guide for use**

Data source type: Administrative by-product data

**Data Element / Data Set**

[Person—age range, code 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—age range, code 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**

[Person—age range, code NN](#)

**Data Source**

[AIHW National Mortality Database](#)

**Guide for use**

Data source type: Administrative by-product data

**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 \(NHMD\)](#)

**NMDS / DSS**

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

**Guide for use**

Data source type: Administrative by-product data

**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 \(NHMD\)](#)

**NMDS / DSS**

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

**Guide for use**

Data source type: Administrative by-product data

**Data Element / Data Set**

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

**Data Source**

[AIHW National Mortality Database](#)

**Guide for use**

Data source type: Administrative by-product data



**Comments:**

Most recent data available for 2019 Australian Health Performance Framework: 2017.

Compilation of calendar year data from the Admitted patient care NMDs requires data from 2 financial years (e.g. 2017 calendar year data uses Admitted patient care NMDs for 2016–17 and 2017–18). Numerator, denominator and disaggregation data elements for previous financial years are similar to those listed above for the Admitted patient care NMDs 2017–18 (noting that some codes and classifications may change over time).

This is an estimate of the incidence of acute coronary events in a calendar year. An individual may have more than one event during a year.  
This indicator has previously been published at the national level by age and sex.

The data for state/territory (of usual residence) has previously been published. Comparison of acute coronary event rates between jurisdictions should not be made as an AIHW assessment of validity study (based on New South Wales and Western Australia data) has shown that there are variations in the ascertainment of acute coronary events between jurisdictions. This is likely due to differing treatment and referral patterns and data recording practices across states/territories, which are likely to have an impact on administrative records and affect jurisdictional comparability. Validation of reporting of incidence of acute coronary events by Primary Health Networks (PHNs) is currently underway.

## Representational attributes

|                              |          |
|------------------------------|----------|
| <b>Representation class:</b> | Rate     |
| <b>Data type:</b>            | Real     |
| <b>Unit of measure:</b>      | Episode  |
| <b>Format:</b>               | N[NNN].N |

## Indicator conceptual framework

**Framework and dimensions:** [1. Health conditions](#)

## Data source attributes

**Data sources:****Data Source**

[ABS Estimated resident population \(2016 Census-based\)](#)

**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

**Data Source**

[AIHW National Mortality Database](#)

**Frequency**

Annual

**Data custodian**

Australian Institute of Health and Welfare

## Accountability attributes

**Reporting requirements:** Australian Health Performance Framework

**Organisation responsible for providing data:** Australian Institute of Health and Welfare

## Source and reference attributes

**Submitting organisation:** Australian Institute of Health and Welfare

## Relational attributes

**Related metadata references:**

Has been superseded by [Australian Health Performance Framework: PI 3.1.1–Incidence of heart attacks \(acute coronary events\), 2020](#)  
[Health!](#), Standard 13/10/2021

See also [National Healthcare Agreement: PI 09–Incidence of heart attacks \(acute coronary events\), 2020](#)  
[Health!](#), Standard 13/03/2020

See also [National Healthcare Agreement: PI 09–Incidence of heart attacks \(acute coronary events\), 2021](#)  
[Health!](#), Standard 16/09/2020