

# Australian Health Performance Framework: PI 3.1.1— Incidence of heart attacks (acute coronary events), 2021

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# Australian Health Performance Framework: PI 3.1.1—Incidence of heart attacks (acute coronary events), 2021

## 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), 2021
<b>METEOR identifier:</b>	769649
<b>Registration status:</b>	<a href="#">Health</a> , Standard 07/09/2023
<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, 2021</a> <a href="#">Health</a> , Standard 11/07/2023

## Collection and usage attributes

<b>Population group age from:</b>	25 years
<b>Computation description:</b>	Rates are directly age-standardised to the 2001 Australian population. The number of acute coronary events is estimated by (a) + (b) where: (a) is the 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), and (b) is the number of non-fatal hospital separations where 'acute myocardial infarction' or 'unstable angina' (International Classification of Diseases 10th Revision Australian Modification (ICD-10-AM) codes I21 or I20.0) is the principal diagnosis, separation mode is not equal to 'died' or 'transferred to another acute hospital', and care type is 'acute care' in each calendar year (based on separation date from hospital).
<b>Computation:</b>	Crude rate: $100,000 \times (\text{Numerator} \div \text{Denominator})$
<b>Numerator:</b>	The number of deaths recorded with an underlying cause of acute coronary heart disease (a) plus 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 (b). For ages 25 years and over.
<b>Numerator data elements:</b>	

### Data Element / Data Set

#### Data Element

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 2019-20](#)

**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 2020–21](#)

**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**

[Episode of care—principal diagnosis, code \(ICD-10-AM 11th edn\) ANN{.N\[N\]}](#)

**Data Source**

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

**NMDS / DSS**

[Admitted patient care NBEDS 2019-20](#)

**Guide for use**

Data source type: Administrative by-product data

**Data Element / Data Set**

[Episode of care—principal diagnosis, code \(ICD-10-AM 11th edn\) ANN{.N\[N\]}](#)

**Data Source**

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

**NMDS / DSS**

[Admitted patient care NMDS 2020–21](#)

**Guide for use**

Data source type: Administrative by-product data

**Data Element / Data Set****Data Element**

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 2019-20](#)

**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 2020–21](#)

**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 2019-20](#)

**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 2020–21](#)

**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 2019-20](#)

**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 2020-21](#)

**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:**

2013 to 2020—Nationally by:

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

2013 to 2020—State/territory of usual residence.

**Disaggregation data elements:**

**Data Element / Data Set**

[Person—sex, code N](#)

**Data Source**

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

**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 \(NHMD\)](#)

**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 2019-20](#)

**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](#)

**NMDS / DSS**

[Admitted patient care NMDS 2020–21](#)

**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 2019-20](#)

**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 2020–21](#)

**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

**Data Element / Data Set**

[Person—sex, code X](#)

**Data Source**

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

NMDS / DSS

[Admitted patient care NMDS 2019-20](#)

Guide for use

Data source type: Administrative by-product data

#### Data Element / Data Set

[Person—sex, code X](#)

Data Source

[AIHW National Mortality Database](#)

NMDS / DSS

[Admitted patient care NMDS 2021-22](#)

Guide for use

Data source type: Administrative by-product data

#### Comments:

Most recent data available for 2021 Australian Health Performance Framework: 2020.

Compilation of calendar year data from the Admitted patient care NMDS requires data from 2 financial years (e.g., 2020 calendar year data uses Admitted patient care NMDSs for 2019–20 and 2020–21).

This is a measure of the number 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. Direct 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.

The ICD-10 code set represents the disease or injury which initiated the train of morbid events leading directly to death or the circumstances of the accident or violence which produced the fatal injury.

The ICD-10-AM code set is used to classify diseases, injuries and related health problems.

## Representational attributes

Representation class: Rate

Data type: Real

Unit of measure: Episode

Format: 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

**Accountability:** Australian Institute of Health and Welfare

## Source and reference attributes

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

## Relational attributes

**Related metadata references:** Supersedes [Australian Health Performance Framework: PI 3.1.1—Incidence of heart attacks \(acute coronary events\), 2020](#)  
[Health](#), Superseded 07/09/2023

See also [National Healthcare Agreement: PI 09—Incidence of heart attacks \(acute coronary events\), 2022](#)  
[Health](#), Standard 24/09/2021