

# National Healthcare Agreement: PI 09—Incidence of heart attacks (acute coronary events), 2022

Exported from METEOR (AIHW's Metadata Online Registry)

© Australian Institute of Health and Welfare 2024

This product, excluding the AIHW logo, Commonwealth Coat of Arms and any material owned by a third party or protected by a trademark, has been released under a Creative Commons BY 4.0 (CC BY 4.0) licence. Excluded material owned by third parties may include, for example, design and layout, images obtained under licence from third parties and signatures. We have made all reasonable efforts to identify and label material owned by third parties.

You may distribute, remix and build on this website's material but must attribute the AIHW as the copyright holder, in line with our attribution policy. The full terms and conditions of this licence are available at <https://creativecommons.org/licenses/by/4.0/>.

Enquiries relating to copyright should be addressed to [info@aihw.gov.au](mailto:info@aihw.gov.au).

Enquiries or comments on the METEOR metadata or download should be directed to the METEOR team at [meteor@aihw.gov.au](mailto:meteor@aihw.gov.au).

# National Healthcare Agreement: PI 09—Incidence of heart attacks (acute coronary events), 2022

## Identifying and definitional attributes

Metadata item type:	Indicator
Indicator type:	Progress measure
Short name:	PI 09—Incidence of heart attacks (acute coronary events), 2022
METEOR identifier:	740878
Registration status:	<a href="#">Health</a> , Standard 24/09/2021
Description:	Incidence of acute coronary events (acute myocardial infarction and unstable angina).
Indicator set:	<a href="#">National Healthcare Agreement (2022)</a> <a href="#">Health</a> , Standard 24/09/2021
Outcome area:	<a href="#">Prevention</a> <a href="#">Health</a> , Standard 07/07/2010

## Collection and usage attributes

Population group age from:	25 years						
Computation description:	<p>Rates are directly age-standardised to the 2001 Australian population.</p> <p>The number of acute coronary events is estimated by (a) + (b), where:</p> <p>(a) = The number of deaths where 'acute coronary heart disease' is the underlying cause of death in each calendar year (based on year of registration of death).</p> <ul style="list-style-type: none"><li>'Acute coronary heart disease' is defined using codes I20–I24 under the International Classification of Diseases 10th Revision, Australian Modification (ICD-10-AM) 10<sup>th</sup> and 11<sup>th</sup> edns.</li></ul> <p>(b) = The number of non-fatal hospital separations, where:</p> <ul style="list-style-type: none"><li>'Acute myocardial infarction' (ICD-10-AM 10<sup>th</sup> and 11<sup>th</sup> edn code I21) or 'unstable angina' (ICD-10-AM 10<sup>th</sup> and 11<sup>th</sup> edn I20.0) is the principal diagnosis, and</li><li>Separation mode is not equal to 'died' or 'transferred to another acute hospital', and</li><li>Care type is equal to 'acute care' in each calendar year (based on discharge date from hospital).</li></ul>						
Computation:	Crude rate: 100,000 x (Numerator ÷ Denominator)						
Numerator:	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 and over.						
Numerator data elements:	<table><tr><th>Data Element / Data Set</th></tr><tr><td>Data Element</td></tr><tr><td>Person—underlying cause of death, code (ICD-10) ANN{.N}</td></tr><tr><td>Data Source</td></tr><tr><td><a href="#">AIHW National Mortality Database</a></td></tr><tr><td>Guide for use</td></tr></table>	Data Element / Data Set	Data Element	Person—underlying cause of death, code (ICD-10) ANN{.N}	Data Source	<a href="#">AIHW National Mortality Database</a>	Guide for use
Data Element / Data Set							
Data Element							
Person—underlying cause of death, code (ICD-10) ANN{.N}							
Data Source							
<a href="#">AIHW National Mortality Database</a>							
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**

[Hospital service—care type, code N\[N\]](#)

**Data Source**

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

NMDS / DSS

[Admitted patient care NMDS 2018-19](#)

**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**

[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 2018-19](#)

**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 2019-20](#)

**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 2018-19](#)

**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 mode, code N](#)

**Data Source**

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

**NMDS / DSS**

[Admitted patient care NMDS 2018-19](#)

**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**

[Person—date of birth, DDMMYYYY](#)

**Data Source**

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

NMDS / DSS

[Admitted patient care NMDS 2018-19](#)

**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 death, DDMMYYYY](#)

**Data Source**

[AIHW National Mortality Database](#)

**Guide for use**

Data source type: Administrative by-product data

**Denominator:**

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

**Denominator data elements:**

**Data Element / Data Set**

**Data Element**

Person—projected Indigenous population of Australia, total people N[N(7)]

**Data Source**

[ABS Indigenous estimates and projections \(2016 Census-based\)](#)

**Guide for use**

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

**Data Element / Data Set**

[Person—Indigenous status, code N](#)

**Data Source**

[ABS Indigenous estimates and projections \(2016 Census-based\)](#)

**Guide for use**

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

**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—age, total years N\[NN\]](#)

**Data Source**

[ABS Indigenous estimates and projections \(2016 Census-based\)](#)

**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:**

2017, 2018 (resupplied for revisions to the National Mortality Database), and 2019  
—Nationally, by:

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

2017, 2018 (resupplied for revisions to the National Mortality Database), and 2019  
—State/territory of usual residence.

2017, 2018 (resupplied for revisions to the National Mortality Database), and 2019  
—Nationally (for states and territories with adequate identification in both hospital  
and deaths data), by:

- Indigenous status (not reported).

**Disaggregation data  
elements:****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—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 2018-19](#)

**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**

[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 2018-19](#)

**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](#)

**Guide for use**

Data source type: Administrative by-product data

**Data Element / Data Set**

[Person—Indigenous status, code N](#)

**Data Source**

[AIHW National Mortality Database](#)

**Guide for use**

Data source type: Administrative by-product data

**Data Element / Data Set**

[Person—Indigenous status, code N](#)

**Data Source**

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

NMDS / DSS

[Admitted patient care NMDS 2018-19](#)

**Guide for use**



Data source type: Administrative by-product data

**Data Element / Data Set**

[Person—Indigenous status, 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**

[Person—sex, code X](#)

**Data Source**

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

NMDS / DSS

[Admitted patient care NMDS 2018-19](#)

**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

**Comments:** Most recent data available for 2022 National Healthcare Agreement performance reporting: 2019.

Compilation of calendar year data from the Admitted patient care NMDs requires data from 2 financial years (e.g. 2019 calendar year data uses Admitted patient care NMDs for 2018–19 and 2019–20).

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. 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.

Further details on the incidence of heart attacks among Indigenous Australians are available from the Aboriginal and Torres Strait Islander Health Performance Framework ([measure 1.05: Circulatory disease](#)).

## Representational attributes

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

## Data source attributes

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

[ABS Indigenous estimates and projections \(2016 Census-based\)](#)

**Frequency**

Periodic

**Data custodian**

Australian Bureau of Statistics

**Data Source**

[AIHW National Mortality Database](#)

**Frequency**

Annual

**Data custodian**

Australian Institute of Health and Welfare

**Data Source**

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

**Frequency**

Annual

**Data custodian**

Australian Institute of Health and Welfare

**Data Source**

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

**Frequency**

Quarterly

**Data custodian**

Australian Bureau of Statistics

## Accountability attributes

**Reporting requirements:** National Healthcare Agreement

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

**Further data development / collection required:** Specification: Any further improvements in diagnostic sensitivity and treatment patterns for acute coronary events will need to be taken into account in trend analysis.

## Source and reference attributes

**Reference documents:** Australian Institute of Health and Welfare (AIHW) 2020. *Aboriginal and Torres Strait Islander Health Performance Framework*. Canberra: AIHW. Viewed 19 February 2021, <https://indigenoushpf.gov.au/>

## Relational attributes

**Related metadata  
references:**

Supersedes [National Healthcare Agreement: PI 09—Incidence of heart attacks \(acute coronary events\), 2021](#)

[Health](#), Standard 16/09/2020

See also [Australian Health Performance Framework: PI 3.1.1—Incidence of heart attacks \(acute coronary events\), 2020](#)

[Health](#), Superseded 07/09/2023

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

[Health](#), Standard 07/09/2023