Australian Health Performance Framework: PI 3.1.1– Incidence of heart attacks (acute coronary events), 2020

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Identifying and definitional attributes

Metadata item type:	Indicator
Indicator type:	Indicator
Short name:	AHPF PI 3.1.1–Incidence of heart attacks (acute coronary events), 2020
METEOR identifier:	728383
Registration status:	Health, Superseded 07/09/2023
Description:	Incidence of acute coronary events (acute myocardial infarction and unstable angina).
Rationale:	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.
Indicator set:	Australian Health Performance Framework, 2020 Health, Superseded 11/07/2023

Collection and usage attributes

Population group age from:	25 years
Computation description:	Rates are directly age-standardised to the 2001 Australian population. 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). 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 was not 'died' or 'transferred to another acute hospital', and care type is 'acute care' in each calendar year (based on discharge date from hospital). The number of acute coronary events is estimated by (a) + (b). Presented as a number per 100,000 population.
Computation:	100,000 x (Numerator ÷ Denominator)
Numerator:	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** **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 2017-18

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

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

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 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

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 2017-18

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 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

AIHW National Mortality Database

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 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—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—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 2018—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 2017-18

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 2018-19

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 2017-18

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

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 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

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

AIHW National Mortality Database

Guide for use

Data source type: Administrative by-product data

Comments:

Most recent data available for 2020 Australian Health Performance Framework: 2018.

Compilation of calendar year data from the Admitted patient care NMDS requires data from 2 financial years (e.g. 2018 calendar year data uses Admitted patient care NMDSs for 2017–18 and 2018–19). 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

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

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), 2019
Health, Superseded 13/10/2021

Has been superseded by Australian Health Performance Framework: PI 3.1.1–Incidence of heart attacks (acute coronary events), 2021
Health, Standard 07/09/2023

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), 2022
Health, Standard 24/09/2021