Australian Health Performance Framework: PI 3.1.1– Incidence of heart attacks (acute coronary events), 2023

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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), 2023
METEOR identifier:	793192
Registration status:	Health, Recorded 18/06/2024
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, 2023 Health, Recorded 22/05/2024

Collection and usage attributes

Population group age from:	25 years
Computation description:	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).
Computation:	(Numerator ÷ Denominator) × 100,000
Numerator:	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.
Numerator data elements:	**Data Element / Data Set** Death—year of registration, YYYY **Data Source** 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 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 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

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

Episode of admitted patient care—separation mode, code NN

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 at death, code NNNN

Data Source

National Mortality Database

Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

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

Data Source

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

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

Hospital service—care type, code N[N]

Data Source

National Hospital Morbidity Database (NHMD)

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Admitted patient care NMDS 2019-20

Guide for use

Data source type: Administrative by-product data

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

Denominator data elements:

Data Element / Data Set

Person—age, total years

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

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—age at death, code NNNN

Data Source

National Mortality Database

Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

Person—sex

Data Source

National Mortality Database

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

Used for disaggregation by age group.

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

Used for disaggregation by age group.

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

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

National Hospital Morbidity Database (NHMD)

NMDS / DSS

Admitted patient care NMDS 2019-20

Guide for use

Data source type: Administrative by-product data

Used for disaggregation by state/territory.

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

Used for disaggregation by state/territory.

Data Element / Data Set

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

Data Source

National Mortality Database

Guide for use

Data source type: Administrative by-product data

Used for disaggregation by state/territory.

Comments:

Most recent data available for 2023 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. The criteria used to identify acute coronary events in the hospitalisation and deaths data are to minimise repeat counting of these events.

This indicator has previously been published at the national level by age and sex.

The data for state/territory (of usual residence) have 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 is the direct cause of death or the circumstances of the accident or violence which led to death.

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: Event

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 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

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), 2022
Health, Qualified 28/06/2024

Has been superseded by Australian Health Performance Framework: PI 3.1.1–Incidence of heart attacks (acute coronary events), 2024
Health, Qualified 28/06/2024