

National Health Performance Authority, Healthy Communities: Number of selected potentially avoidable hospitalisations per 100,000 people, 2011–12

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National Health Performance Authority, Healthy Communities: Number of selected potentially avoidable hospitalisations per 100,000 people, 2011–12

Identifying and definitional attributes

Metadata item type:	Indicator
Indicator type:	Indicator
Short name:	Potentially avoidable hospitalisations 2011–12
METEOR identifier:	549587
Registration status:	National Health Performance Authority (retired) , Retired 01/07/2016
Description:	Number of selected potentially avoidable hospitalisations per 100,000 people
Indicator set:	National Health Performance Authority: Healthy Communities: 2011– National Health Performance Authority (retired) , Retired 01/07/2016

Collection and usage attributes

Population group age from:	All ages except for influenza and pneumonia for which people under the age of two months are excluded
Computation description:	Table 1: Classification of selected potentially avoidable hospitalisations

Type/condition	ICD-10-AM 7th edition codes	Further selection information
Chronic		
Asthma	J45, J46	Principal diagnosis only
Congestive cardiac failure	I50, I11.0, J81	Principal diagnosis only; exclude cases with the following procedure codes: 33172-00, 38300-00, 38303-00, 38306-02, 38306-00, 38353-02, 38353-00, 38350-00, 38368-00, 38256-00, 38350-02, 38358-00, 38358-01, 38358-02, 38368-02, 38654-02, 38456-26, 38456-27, 38368-04, 38358-03, 38654-05, 38456-33, 38456-34, 38270-01, 38456-19, 38456-15, 38456-12, 38456-11, 38456-10, 90203-00, 38456-01, 38470-00, 38475-00, 38480-02, 38480-01, 38480-00, 38488-06, 38488-04, 38489-04, 38488-02, 38489-03, 38487-00, 38489-02, 38488-00, 38489-00, 38490-00, 38493-00, 38497-04, 38497-03, 38497-02, 38497-01, 38497-00, 38500-00, 38503-00, 38505-00, 38362-00, 90203-08, 90203-09, 38456-28, 38612-00, 38615-00, 38653-00, 38700-02, 38700-00, 38739-00, 38742-02, 38742-00, 38745-00, 38751-02, 38751-00, 38757-02, 38757-01, 38757-00, 90204-00, 90205-00, 90219-00, 90224-00
Diabetes complications	E10–E14.9	Principal diagnosis only

Chronic obstructive pulmonary disease (COPD)	J20, J41, J42, J43, J44, J47	Principal diagnosis only; J20 only with additional diagnoses of J41, J42, J43, J44, J47
Angina	I20, I24.0, I24.8, I24.9	Principal diagnosis only; exclude cases with procedure codes not in blocks [1820] to [2016]
Iron deficiency anaemia	D50.1, D50.8, D50.9	Principal diagnosis only
Hypertension	I10, I11.9	Principal diagnosis only; exclude cases with procedure codes according to the list of procedures excluded from the Congestive cardiac failure category above
Nutritional deficiencies	E40, E41, E42, E43, E55.0, E64.3	Principal diagnosis only
Rheumatic heart disease *	I00 to I09	Principal diagnosis only
Acute		
Dehydration and gastroenteritis	A09.9, E86, K52.2, K52.8, K52.9	Principal diagnosis only
Pyelonephritis	N10, N11, N12, N13.6, N39.0	Principal diagnosis only
Perforated/bleeding ulcer	K25.0, K25.1, K25.2, K25.4, K25.5, K25.6, K26.0, K26.1, K26.2, K26.4, K26.5, K26.6, K27.0, K27.1, K27.2, K27.4, K27.5, K27.6, K28.0, K28.1, K28.2, K28.4, K28.5, K28.6	Principal diagnosis only

Cellulitis	L03, L04, L08, L88, L98.0, L98.3	Principal diagnosis only; exclude cases with any procedure except those in blocks 1820 to 2016 or if procedure is 30316-02, 30676-00, 30223-02, 30064-00, 34528-02, 39127-00, 90661-00 and this is the only listed procedure
Pelvic inflammatory disease	N70, N73, N74	Principal diagnosis only
Ear, nose and throat infections	H66, H67, J02, J03, J06, J31.2	Principal diagnosis only
Dental conditions	K02, K03, K04, K05, K06, K08, K09.8, K09.9, K12, K13	Principal diagnosis only
Appendicitis with generalised peritonitis	K35.2, K35.3	In any diagnosis field (1–100)
Convulsions and epilepsy	G40, G41, O15, R56	Principal diagnosis only
Gangrene	R02	In any diagnosis field (1–100)
Vaccine-preventable		
Influenza and pneumonia	J10, J11, J13, J14, J15.3, J15.4, J15.7, J15.9, J16.8, J18.1, J18.8	In any diagnosis field (1–100), excludes cases with additional diagnosis of D57 (sickle-cell disorders) and people under 2 months
Other vaccine-preventable conditions	A35, A36, A37, A80, B05, B06, B16.1, B16.9, B18.0, B18.1, B26, G00.0, M01.4	In any diagnosis field (1–100)

* Includes acute rheumatic fever.

Analysis by Medicare Local catchment and Statistical Areas Level 3 (SA3) is

based on postcode of usual residence of the patient.

Computation:

Presented as a number per 100,000 people.
 $100,000 \times (\text{Numerator} \div \text{Denominator})$

Number of selected potentially avoidable hospitalisations per 100,000 people
(crude and age-standardised to the 2001 Australian population)

Numerator:

Total number of potentially avoidable hospitalisations in 2011–12 for the following groups:

- Selected potentially avoidable hospitalisations
- Potentially avoidable hospitalisations for chronic conditions
- Potentially avoidable hospitalisations for acute and vaccine-preventable conditions
- Potentially avoidable hospitalisations for individual conditions except iron deficiency anaemia and nutritional deficiencies which were combined due to low separation counts for nutritional deficiencies

Numerator data elements:

Data Element / Data Set

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

Data Source

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

NMDS / DSS

[Admitted patient care NMDS 2011-12](#)

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 2011-12](#)

Guide for use

Data source type: Administrative by-product data

Used to calculate age

Data Element / Data Set

[Episode of care—additional diagnosis, code \(ICD-10-AM 7th edn\) ANN{.N\[N\]}](#)

Data Source

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

NMDS / DSS

[Admitted patient care NMDS 2011-12](#)

Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

[Episode of care—principal diagnosis, code \(ICD-10-AM 7th edn\) ANN{.N\[N\]}](#)

Data Source

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

NMDS / DSS

[Admitted patient care NMDS 2011-12](#)

Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

[Episode of admitted patient care—procedure, code \(ACHI 7th edn\) NNNNN-NN](#)

Data Source

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

NMDS / DSS

[Admitted patient care NMDS 2011-12](#)

Guide for use

Data source type: Administrative by-product data

Denominator:

Denominator data elements:

Total population

Data Element / Data Set

[Person—estimated resident population of Australia, total people N\[N\(7\)\]](#)

Data Source

[ABS Estimated resident population \(total population\)](#)

Guide for use

ABS Estimated resident population as at June 2011

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

Disaggregation:

2011–12 by Medicare Local catchments, Medicare Local peer groups and Statistical Areas Level 3, which have been derived from [Postcode—Australian \(person\)](#):

- Medicare Locals are primary health care organisations established to improve responsiveness, coordinate primary health care delivery and tackle local health care needs and service gaps. A Medicare Local catchment refers to the geographical area of a Medical Local.
- Medicare Local peer groups are the grouping of the 61 Medicare Locals into seven peer groups. This grouping was undertaken by the National Health Performance Authority using statistical cluster analysis of 2006 Census based socioeconomic status for each Medicare Local and, 2006 Census based Remoteness Area categories (ABS cat. no. 2039.0). Additional information on the average distance to the closest large city and major hospital (A1 public hospital peer group classification, 2010–11) contributed to the assignment of Medicare Locals to peer groups. Groupings were tested for face validity with a stakeholder group. The National Health Performance Authority has created 7 peer groups: Metro 1 to 3, Regional 1 and 2 and Rural 1 and 2.
- Statistical Areas Level 3 (SA3s) are geographic areas defined in the ABS Australian Statistical Geography Standard (ASGS). The aim of SA3s is to create a standard framework for the analysis of ABS data at the regional level through clustering groups of SA2s that have similar regional characteristics. There are 333 spatial SA3s covering the whole of Australia without gaps or overlaps. They are designed to provide a regional breakdown of Australia. SA3s generally have a population of between 30,000 and 130,000 people. There are approximately 50 with fewer than 30,000 people and 35 with more than 130,000 as at 30 June 2011. For further information see the ABS publication, Australian Statistical Geography Standard (ASGS): Volume 1 – Main Structure and Greater Capital City Statistical Areas, July 2011 (cat. no. 1270.0.55.001).

Disaggregation data elements:**Data Element / Data Set**

[Address—Australian postcode, Australian postcode code \(Postcode datafile\) {NNNN}](#)

Data Source

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

Guide for use

Data source type: Administrative by-product data

Used for disaggregation by Medicare Local catchment and Statistical Areas Level 3.

Comments:

The scope of the Admitted Patient Care National Minimum Data Set (APC NMDS) is episodes of care for admitted patients in all public and private acute and psychiatric hospitals, free standing day hospital facilities and alcohol and drug treatment centres in Australia. Hospitals operated by the Australian Defence Force, corrections authorities and in Australia's offshore territories may also be included. Hospitals specialising in dental, ophthalmic aids and other specialised acute medical or surgical care are included. Episodes of non-admitted patient care provided in outpatient clinics or emergency departments are excluded from the APC NMDS data.

Potentially avoidable hospitalisations are also called 'potentially preventable hospitalisations' and 'ambulatory care sensitive hospitalisations'.

Representational attributes

Representation class:	Rate
Data type:	Real
Unit of measure:	Episode

Format: NN[NN].N

Indicator conceptual framework

Framework and dimensions:

[PAF-Effectiveness of access](#)

[PAF-Effectiveness](#)

- [PAF-Appropriateness](#)
- [PAF-Effectiveness of access](#)
- [PAF-Quality](#)
 - [PAF-Capability](#)
 - [PAF-Continuity](#)
 - [PAF-Responsiveness](#)
 - [PAF-Safety](#)
- [PAF-Sustainability](#)

[PAF-Safety](#)

[PAF-Equity of access](#)

Data source attributes

Data sources:

Data Source

[ABS Estimated resident population \(total population\)](#)

Frequency

Quarterly

Data quality statement

[ABS Estimated resident population \(total population\), QS](#)

Data custodian

Australian Bureau of Statistics

Data Source

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

Frequency

Annual

Data custodian

Australian Institute of Health and Welfare

Accountability attributes

Reporting requirements: National Health Reform Performance and Accountability Framework (NHR_PAF)

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

Accountability: National Health Performance Authority (NHPA)

Further data development / collection required: Specification: Interim

Release date: 07/11/2013

Source and reference attributes

Submitting organisation: NHPA

Origin: Healthy Communities

Reference documents: National Health Reform Performance and Accountability Framework
Healthy Communities: Selected potentially avoidable hospitalisations in 2011–12, Technical Supplement

Relational attributes

Related metadata references: See also [National Healthcare Agreement: PI 18-Selected potentially preventable hospitalisations, 2013](#)
[Health](#), Superseded 30/04/2014