

# National Healthcare Agreement: PI 18-Selected potentially preventable hospitalisations, 2013

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# National Healthcare Agreement: PI 18-Selected potentially preventable hospitalisations, 2013

## Identifying and definitional attributes

<b>Metadata item type:</b>	Indicator
<b>Indicator type:</b>	Progress measure
<b>Short name:</b>	PI 18-Selected potentially preventable hospitalisations, 2013
<b>METEOR identifier:</b>	497224
<b>Registration status:</b>	<a href="#">Health</a> , Superseded 30/04/2014
<b>Description:</b>	Admissions to hospital that could have potentially been prevented through the provision of appropriate non-hospital health services.
<b>Indicator set:</b>	<a href="#">National Healthcare Agreement (2013)</a> <a href="#">Health</a> , Superseded 30/04/2014
<b>Outcome area:</b>	<a href="#">Primary and Community Health</a> <a href="#">Health</a> , Standard 07/07/2010
<b>Data quality statement:</b>	<a href="#">National Healthcare Agreement: PI 18-Selected potentially preventable hospitalisations, 2013 QS</a> <a href="#">Health</a> , Superseded 14/01/2015

## Collection and usage attributes

**Computation description:** Note that the codes below are ICD-10-AM 7<sup>th</sup> edition.

Table 22 A: ICD-10-AM codes used for identifying potentially preventable hospitalisations

Category	ICD-10-AM codes
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, 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
Chronic	
Asthma	J45, J46 as principal diagnosis only

Congestive cardiac failure	I50, I11.0, J81 as 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 as principal diagnoses and E10–E14.9 as additional diagnoses where the principal diagnosis was: <ul style="list-style-type: none"> <li>– hypersmolarity (E87.0)</li> <li>– acidosis (E87.2)</li> <li>– transient ischaemic attack (G45)</li> <li>– nerve disorders and neuropathies (G50–G64)</li> <li>– cataracts and lens disorders (H25–H28)</li> <li>– retinal disorders (H30–H36)</li> <li>– glaucoma (H40–H42)</li> <li>– myocardial infarction (I21–I22)</li> <li>– other coronary heart diseases (I20, I23–I25)</li> <li>– heart failure (I50)</li> <li>– stroke and sequelae (I60–I64, I69.0–I69.4)</li> <li>– peripheral vascular disease (I70–I74)</li> <li>– gingivitis and periodontal disease (K05)</li> <li>– kidney diseases (N00–N29) [including end-stage renal disease (N17–N19)]</li> <li>– renal dialysis (Z49)</li> </ul>
COPD	J20, J41, J42, J43, J44, J47 as principal diagnosis only, J20 only with additional diagnoses of J41, J42, J43, J44, J47
Angina	I20, I24.0, I24.8, I24.9 as principal diagnosis only, exclude cases with procedure codes not in blocks [1820] to [2016]
Iron deficiency anaemia	D50.1, D50.8, D50.9 as principal diagnosis only.

Hypertension	I10, I11.9 as 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 as principal diagnosis only.
Rheumatic heart disease	I00 to I09 as principal diagnosis only. (Note: includes acute rheumatic fever)
Acute	
Dehydration and gastroenteritis	A09.9, E86, K52.2, K52.8, K52.9 as principal diagnosis only.
Pyelonephritis	N10, N11, N12, N13.6, N39.0 as 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 as principal diagnosis only.
Cellulitis	L03, L04, L08, L88, L98.0, L98.3 as 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 as principal diagnosis only.
Ear, nose and throat infections	H66, H67, J02, J03, J06, J31.2 as principal diagnosis only.
Dental conditions	K02, K03, K04, K05, K06, K08, K09.8, K09.9, K12, K13 as principal diagnosis only.
Appendicitis with generalised peritonitis	K35.2, K35.3 in any diagnosis field
Convulsions and epilepsy	G40, G41, O15, R56 as principal diagnosis only
Gangrene	R02 in any diagnosis field

Rates directly age-standardised to the 2001 Australian population.

Analysis by state and territory, remoteness and SEIFA Index of Relative Socioeconomic Disadvantage (IRSD) is based on usual residence of person.

Presented as a number per 100,000 population.

#### Computation:

$100,000 \times (\text{Numerator} \div \text{Denominator})$

Calculated separately for each of the 3 computations:

1. As per specification
2. With diabetes complications (additional diagnoses only) and dehydration gastroenteritis excluded (Council of Australian Governments (COAG) Reform Council (CRC) supplementary data).
3. With diabetes complications (all diagnoses) and dehydration gastroenteritis excluded (CRC supplementary data).

**Numerator:**

Number of potentially preventable hospitalisations, divided into three groups and total:

- vaccine-preventable conditions (e.g. tetanus, measles, mumps, rubella)
- acute conditions (e.g. ear, nose and throat infections, dehydration/gastroenteritis)
- chronic conditions (e.g. diabetes, asthma, angina, hypertension, congestive heart failure and chronic obstructive pulmonary disease)
- all potentially preventable hospitalisations

**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 2010-11](#)

**Guide for use**

Data source type: Administrative by-product data

**Data Element / Data Set**

[Episode of admitted patient care—condition onset flag, code N](#)

**Data Source**

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

NMDS / DSS

[Admitted patient care NMDS 2010-11](#)

**Guide for use**

Data source type: Administrative by-product data

**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 2010-11](#)

**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 2010-11](#)

**Guide for use**

Data source type: Administrative by-product data

**Denominator:**

Total population

**Denominator data elements:**

**Data Element / Data Set**

**Data Element**

Person—estimated resident population of Australia

**Data Source**

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

**Guide for use**

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

**Data Element / Data Set**

**Data Element**

Person—estimated resident population of Australia

**Data Source**

[ABS Indigenous experimental estimates and projections \(2001 Census-based\)](#)

**Guide for use**

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

**Disaggregation:**

2008-09, 2009-10 (revised) and 2010-11—Nationally (by three groups and total) by SEIFA Index of Relative Socio-Economic Disadvantage (IRSD) deciles.

2008-09, 2009-10 (revised) and 2010-11—State and territory (by three groups and total), by:

- Indigenous status
- remoteness (Australian Standard Geographical Classification Remoteness Structure)
- SEIFA IRSD quintiles

2007-08, 2008-09, 2009-10, 2010-11 — Nationally, by Indigenous status by remoteness.

Some disaggregation may result in numbers too small for publication. National disaggregation by Indigenous status will be based on data only from jurisdictions for which the quality of Indigenous identification is considered acceptable.

## Disaggregation data elements:

### Data Element / Data Set

[Person—Indigenous status, code N](#)

#### Data Source

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

#### NMDS / DSS

[Admitted patient care NMDS 2010-11](#)

#### Guide for use

Data source type: Administrative by-product data

### Data Element / Data Set

[Person—area of usual residence, geographical location code \(ASGC 2009\) NNNNN](#)

#### Data Source

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

#### NMDS / DSS

[Admitted patient care NMDS 2010-11](#)

#### Guide for use

Data source type: Administrative by-product data

Used for disaggregation by state/territory, remoteness and SEIFA IRSD

## Comments:

Most recent data available for 2013 Council of Australian Governments (COAG) Reform Council (CRC) report: 2010–11.

The scope of the National Hospital Morbidity Database (NHMD) is episodes of care for admitted patients in essentially all hospitals in Australia, including public and private acute and psychiatric hospitals, free-standing day hospital facilities, alcohol and drug treatment hospitals and dental hospitals.

Potentially preventable hospitalisations are called 'ambulatory care sensitive hospitalisations' in some jurisdictions.

## Representational attributes

Representation class:	Rate
Data type:	Real
Unit of measure:	Episode
Format:	NN[NN].N

## Indicator conceptual framework

Framework and dimensions:	<a href="#">Accessibility</a>
	<a href="#">Effectiveness</a>
	<a href="#">Safety</a>

## 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

### Data Source

[ABS Indigenous experimental estimates and projections \(2001 Census-based\)](#)

#### Frequency

Periodic

#### Data quality statement

[ABS Indigenous experimental estimates and projections, QS](#)

#### Data custodian

Australian Bureau of Statistics

## Accountability attributes

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

**Benchmark:** [National Healthcare Agreement: PB f-By 2014-15, improve the provision of primary care and reduce the proportion of potentially preventable hospital admissions by 7.6 per cent over the 2006-07 baseline to 8.5 per cent of total hospital admissions, 2013](#)

**Further data development / collection required:** Specification: Minor work required, the measure needs minor work to meet the intention of the indicator.

## Relational attributes

**Related metadata  
references:**

Supersedes [National Healthcare Agreement: PI 22-Selected potentially preventable hospitalisations, 2012](#)

[Health](#), Superseded 25/06/2013

Has been superseded by [National Healthcare Agreement: PI 18-Selected potentially preventable hospitalisations, 2014](#)

[Health](#), Superseded 14/01/2015

See also [National Health Performance Authority, Healthy Communities: Number of selected potentially avoidable hospitalisations per 100,000 people, 2011–12](#)

[National Health Performance Authority \(retired\)](#), Retired 01/07/2016

See also [National Healthcare Agreement: PB f-By 2014-15, improve the provision of primary care and reduce the proportion of potentially preventable hospital admissions by 7.6 per cent over the 2006-07 baseline to 8.5 per cent of total hospital admissions, 2013](#)

[Health](#), Superseded 30/04/2014

See also [National Healthcare Agreement: PI 15-Effective management of diabetes, 2013](#)

[Health](#), Superseded 30/04/2014

See also [National Healthcare Agreement: PI 16-Potentially avoidable deaths, 2013](#)

[Health](#), Superseded 30/04/2014

See also [National Healthcare Agreement: PI 23-Unplanned hospital readmission rates, 2013](#)

[Health](#), Superseded 30/04/2014