

# National Healthcare Agreement: PI 22-Selected potentially preventable hospitalisations, 2012

## Identifying and definitional attributes

<b>Metadata item type:</b>	Indicator
<b>Indicator type:</b>	Progress measure
<b>Short name:</b>	PI 22-Selected potentially preventable hospitalisations, 2012
<b>METEOR identifier:</b>	443687
<b>Registration status:</b>	<ul style="list-style-type: none"><li>• <a href="#">Health</a>, Superseded 25/06/2013</li></ul>
<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 (2012)</a> <a href="#">Health</a> , Superseded 25/06/2013
<b>Outcome area:</b>	<a href="#">Primary and Community Health</a> <a href="#">Health</a> , Standard 07/07/2010
<b>Quality statement:</b>	<a href="#">National Healthcare Agreement: PI 22-Selected potentially preventable hospitalisations, 2012 QS</a> Health, Superseded 14/01/2015

## Collection and usage attributes

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

Category	ICD-10-AM codes
<b>Vaccine-preventable</b>	
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
<b>Chronic</b>	
Asthma	J45, J46 as principal diagnosis only

Category	ICD-10-AM codes
Congestive cardiac failure	I50, I11.0, J81 as principal diagnosis only, exclude cases with the following procedure codes: 33172-00, 35304-00, 35305-00, 35310-02, 35310-00, 38281-11, 38281-07, 38278-01, 38278-00, 38281-02, 38281-01, 38281-00, 38256-00, 38278-03, 38284-00, 38284-02, 38521-09, 38270-01, 38456-19, 38456-15, 38456-12, 38456-11, 38456-10, 38456-07, 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, 38521-04, 38606-00, 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, 90214-00, 90214-02.
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>– hypermolarity (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]

<b>Category</b>	<b>ICD-10-AM codes</b>
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 30216-02, 30676-00, 30223-02, 30064-00, 34527-01, 34527-00, 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	K35.0 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 (all diagnoses) and dehydration gastroenteritis excluded (COAG Reform Council supplementary data).
3. With diabetes complications (additional diagnoses only) and dehydration gastroenteritis excluded (COAG Reform Council 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 2009-10](#)

**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 2009-10](#)

**Guide for use**

Data source type: Administrative by-product data

**Data Element / Data Set**

[Episode of care—additional diagnosis, code \(ICD-10-AM 6th edn\) ANN{.N\[N\]}](#)

**Data Source**

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

**NMDS / DSS**

[Admitted patient care NMDS 2009-10](#)

**Guide for use**

Data source type: Administrative by-product data

**Data Element / Data Set**

[Episode of care—principal diagnosis, code \(ICD-10-AM 6th edn\) ANN{.N\[N\]}](#)

**Data Source**

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

**NMDS / DSS**

[Admitted patient care NMDS 2009-10](#)

**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:**

2009–10—Nationally (by three groups and total) by SEIFA Index of Relative Socioeconomic Disadvantage (IRSD) deciles

2007–08 and 2008–09 (for computation 2 and 3) and 2009–10—State and territory (by three groups and total), by:

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

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 2009-10](#)

**Guide for use**

Data source type: Administrative by-product data

**Data Element / Data Set**

[Person—area of usual residence, geographical location code \(ASGC 2008\) NNNNN](#)

**Data Source**

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

**NMDS / DSS**

[Admitted patient care NMDS 2009-10](#)

**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 2012 CRC report: 2009–10.

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:** [Accessibility](#)  
[Effectiveness](#)  
[Safety](#)

## Data source attributes

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

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

**Frequency**

Quarterly

**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

**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 07-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, 2012](#)

National Healthcare Agreement:

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.

**Further data development / collection required:** Specification: Long-term

## Source and reference attributes

## Relational attributes



**Related metadata references:**

See also [National Healthcare Agreement: PB 07-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, 2012](#)

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

See also [National Healthcare Agreement: PI 09-Immunisation rates for vaccines in the national schedule, 2012](#)

- [Health](#), Retired 25/06/2013

See also [National Healthcare Agreement: PI 17-Proportion of people with diabetes with HbA1c below 7%, 2012](#)

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

Has been superseded by [National Healthcare Agreement: PI 18-Selected potentially preventable hospitalisations, 2013](#)

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

See also [National Healthcare Agreement: PI 20-Potentially avoidable deaths, 2012](#)

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

Supersedes [National Healthcare Agreement: PI 22-Selected potentially preventable hospitalisations, 2011](#)

- [Health](#), Superseded 31/10/2011

See also [National Healthcare Agreement: PI 24-GP-type services, 2012](#)

- [Health](#), Retired 25/06/2013

See also [National Healthcare Agreement: PI 31-Proportion of people with asthma with a written asthma plan, 2012](#)

- [Health](#), Retired 25/06/2013

See also [National Healthcare Agreement: PI 43-Unplanned/unexpected readmissions within 28 days of selected surgical episodes of care, 2012](#)

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

See also [National Healthcare Agreement: PI 45-Rates of services: Overnight separations, 2012](#)

- [Health](#), Retired 25/06/2013

See also [National Healthcare Agreement: PI 47-Rates of services: Non-acute care separations, 2012](#)

- [Health](#), Retired 25/06/2013

See also [National Indigenous Reform Agreement: PI 03-Hospitalisation rates by principal diagnosis, 2012](#)

- [Indigenous](#), Superseded 13/06/2013