National Healthcare Agreement: PI 18-Selected potentially preventable hospitalisations, 2014

Exported from METEOR (AIHW's Metadata Online Registry)

National Healthcare Agreement: PI 18-Selected potentially preventable hospitalisations, 2014

Identifying and definitional attributes

Metadata item type:	Indicator
Indicator type:	Progress measure
Short name:	PI 18-Selected potentially preventable hospitalisations, 2014
METEOR identifier:	517648
Registration status:	Health, Superseded 14/01/2015
Description:	Admissions to hospital that could have potentially been prevented through the provision of appropriate non-hospital health services.
Indicator set:	National Healthcare Agreement (2014) Health, Superseded 14/01/2015
Outcome area:	Primary and Community Health Health, Standard 07/07/2010
Data quality statement:	National Healthcare Agreement: PI 18-Selected potentially preventable hospitalisations, 2014 QS Health, Superseded 14/01/2015

Collection and usage attributes

Computation description: Note that the codes below are ICD-10-AM 7th edition.

Table: 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
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
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, exlude 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)
<u>Acute</u>	
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 x (Numerator ÷ Denominator)

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, perforated/bleeding ulcer, pelvic inflammatory disease) (excluding dehydration and gastroenteritis).
- chronic conditions (e.g. diabetes (principal diagnoses only), 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 2011-12

Guide for use

Data source type: Administrative by-product data

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┌─ **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 2011-12

Guide for use

Data source type: Administrative by-product data

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┌─ **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

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┌─ **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

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Denominator: Total population

Denominator data elements:

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

> **Data Element / Data Set**
>
> [Person—estimated resident population of Australia, total people N[N(7)]](#)
>
> **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:

2007–08, 2008–09, 2009–10, 2010–11 (resupplied for updated Estimated Resident Population (ERP)) and 2011–12—Nationally (by three groups and total) by:

- 2011 Socio-Economic Indexes for Areas (SEIFA) Index of Relative Socioeconomic Disadvantage (IRSD) deciles.
- Sex.

2007-08, 2008-09, 2009-10, 2010-11 (revised), 2011–12—Nationally (by three groups and total), by:

- Indigenous status by remoteness (Australian Standard Geographical Classification (ASGC) Remoteness Structure).

2007–09, 2008–09, 2009–10, 2010-11 (resupplied for updated ERP) and 2011–12—State and territory (by three groups and total), by:

- remoteness (Australian Standard Geographical Classification Remoteness Structure).
- 2011 SEIFA IRSD quintiles.

2011–12—State and territory (by three groups and total), by:

- Indigenous status.

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 2011-12

Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

Person—area of usual residence, geographical location code (ASGC 2011) NNNNN

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 for disaggregation by state/territory, remoteness and SEIFA IRSD

| **Comments:** | Most recent data available for 2014 Council of Australian Governments (COAG) Reform Council (CRC) report: 2011–12. |
| | |

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.

For 2011-12 data, the 2011 SEIFA IRSD quintile and decile data will be produced using the Australian Standard Geography Classification geographical unit of Statistical Local Area. In future years, these data will be produced using the Australian Statistical Geography Standard geographical unit of Statistical Area 2.

Note that updated ERP by Indigenous status is not available for this cycle. Data by Indigenous status is calculated using ERP determined prior to the final rebased ERP provided after the 2011 Census. It is expected that final rebased ERP by Indigenous status will be available for the next cycle of reporting.

Note that the measure being provided this cycle is equivalent to measure 2 (supplementary measure (a)) from the previous cycle.

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

Data quality statement

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

Data custodian

Australian Bureau of Statistics

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┌─ **Data Source** ───┐

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

Frequency

Annual

Data custodian

Australian Institute of Health and Welfare

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┌─ **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

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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, 2014](#)
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 18-Selected potentially preventable hospitalisations, 2013
    Health, Superseded 30/04/2014

Has been superseded by National Healthcare Agreement: PI 18-Selected potentially preventable hospitalisations, 2015
    Health, Superseded 08/07/2016

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, 2014
    Health, Superseded 14/01/2015

See also National Healthcare Agreement: PI 16-Potentially avoidable deaths, 2014
    Health, Superseded 14/01/2015

See also National Healthcare Agreement: PI 23-Unplanned hospital readmission rates, 2014
    Health, Superseded 14/01/2015