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

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

Identifying and definitional attributes

Metadata item type: Indicator

Indicator type: Progress measure

Short name: PI 22-Selected potentially preventable hospitalisations, 2012

METEOR identifier: 443687

Registration status: Health, Superseded 25/06/2013

Description: Admissions to hospital that could have potentially been prevented through the provision of appropriate non-hospital health services.

Indicator set: National Healthcare Agreement (2012)
Health, Superseded 25/06/2013

Outcome area: Primary and Community Health
Health, Standard 07/07/2010

Data quality statement: National Healthcare Agreement: PI 22-Selected potentially preventable hospitalisations, 2012 QS
Health, Superseded 14/01/2015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
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

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: – hypersmolarity (E87.0) – acidosis (E87.2) – transient ischaemic attack (G45) – nerve disorders and neuropathies (G50–G64) – cataracts and lens disorders (H25–H28) – retinal disorders (H30–H36) – glaucoma (H40–H42) – myocardial infarction (I21–I22) – other coronary heart diseases (I20, I23–I25) – heart failure (I50) – stroke and sequelae (I60–I64, I69.0–I69.4) – peripheral vascular disease (I70–I74) – gingivitis and periodontal disease (K05) – kidney diseases (N00–N29) [including end- stage renal disease (N17–N19)] – renal dialysis (Z49)
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]

Category	ICD-10-AM codes
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 x (Numerator ÷ 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

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 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

Relational attributes

Related metadata references:

Supersedes National Healthcare Agreement: PI 22-Selected potentially preventable hospitalisations, 2011
Health, Superseded 31/10/2011

Has been superseded by National Healthcare Agreement: PI 18-Selected potentially preventable hospitalisations, 2013
Health, Superseded 30/04/2014

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

See also National Healthcare Agreement: PI 20-Potentially avoidable deaths, 2012
Health, Superseded 25/06/2013

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