# National Healthcare Agreement: PI 23-Unplanned hospital readmission rates, 2013

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# National Healthcare Agreement: PI 23-Unplanned hospital readmission rates, 2013

## Identifying and definitional attributes

| | |
|---|---|
| **Metadata item type:** | Indicator |
| **Indicator type:** | Progress measure |
| **Short name:** | PI 23-Unplanned hospital readmission rates, 2013 |
| **METEOR identifier:** | 497129 |
| **Registration status:** | Health, Superseded 30/04/2014 |
| **Description:** | Unplanned and unexpected hospital readmissions to the same public hospitals within 28 days for selected surgical procedures. |
| **Indicator set:** | National Healthcare Agreement (2013)<br>Health, Superseded 30/04/2014 |
| **Outcome area:** | Hospital and Related Care<br>Health, Standard 07/07/2010<br>National Health Performance Authority (retired), Retired 01/07/2016 |
| **Data quality statement:** | National Healthcare Agreement: PI 23-Unplanned hospital readmission rates, 2013 QS<br>Health, Superseded 14/01/2015 |

## Collection and usage attributes

**Computation description:** Unplanned/unexpected readmissions are those readmissions where the principal diagnosis indicates an adverse event.

**Principal diagnoses codes**

A principal diagnosis for the readmission has one of the following ICD-10-AM (7th Ed) codes: T80–88, T98.3, E89, G97, H59, H95, I97, J95, K91, M96 or N99.

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|---|
| T80 Complications following infusion, transfusion and therapeutic injection |
| T81 Complications of procedures, not elsewhere classified |
| T82 Complications of cardiac and vascular prosthetic devices, implants and grafts |
| T83 Complications of genitourinary prosthetic devices, implants and grafts |
| T84 Complications of internal orthopaedic prosthetic devices, implants and grafts |
| T85 Complications of other internal prosthetic devices, implants and grafts |
| T86 Failure and rejection of transplanted organs and tissues |
| T87 Complications peculiar to reattachment and amputation |
| T88 Other complications of surgical and medical care, not elsewhere classified |
| T98.3 Sequelae of complications of surgical and medical care, not elsewhere classified |
| E89 Postprocedural endocrine and metabolic disorders, not elsewhere classified |
| G97 Postprocedural disorders of nervous system, not elsewhere classified |
| H59 Postprocedural disorders of eye and adnexa, not elsewhere classified |
| H95 Postprocedural disorders of ear and mastoid process, not elsewhere classified |
| I97 Postprocedural disorders of circulatory system, not elsewhere classified |
| J95 Postprocedural respiratory disorders, not elsewhere classified |

| K91 Postprocedural disorders of digestive system, not elsewhere classified |
| --- |
| M96 Postprocedural musculoskeletal disorders, not elsewhere classified |
| N99 Postprocedural disorders of genitourinary system, not elsewhere classified |

**Procedure codes**

Number of separations in which one of the following surgical procedures was undertaken: knee replacement; hip replacement; tonsillectomy and adenoidectomy; hysterectomy; prostatectomy; cataract surgery; appendicectomy.

The following is a list of the specific ACHI (7th Ed) procedure codes which are included in the specifications for each of the selected surgical procedures.

| Procedure | Procedure Codes | Description |
| --- | --- | --- |
| Knee replacement | 49518-00 | Total arthroplasty of knee, unilateral |
| | 49519-00 | Total arthroplasty of knee, bilateral |
| | 49521-02 | Total arthroplasty of knee with bone graft to tibia, unilateral |
| Hip replacement | 49318-00 | Total arthroplasty of hip, unilateral |
| | 49319-00 | Total arthroplasty of hip, bilateral |
| Tonsillectomy and adenoidectomy | 41789-00 | Tonsillectomy without adenoidectomy |
| | 41789-01 | Tonsillectomy with adenoidectomy |
| | 41801-00 | Adenoidectomy without tonsillectomy |
| Hysterectomy | 35653-01 | Total abdominal hysterectomy |
| | 35653-04 | Total abdominal hysterectomy with removal of adnexa |
| | 35661-00 | Abdominal hysterectomy with extensive retroperitoneal dissection |
| | 35670-00 | Abdominal hysterectomy with radical excision of pelvic lymph nodes |
| | 35756-00 | Laparoscopically assisted vaginal hysterectomy proceeding to abdominal hysterectomy |
| | 35756-03 | Laparoscopically assisted vaginal hysterectomy proceeding to abdominal hysterectomy with removal of adnexa |
| | 90448-01 | Total laparoscopic abdominal hysterectomy |
| | 90448-02 | Total laparoscopic abdominal hysterectomy with removal of adnexa |
| | 35657-00 | Vaginal hysterectomy |
| | 35673-02 | Vaginal hysterectomy with removal of adnexa |
| | 35667-00 | Radical abdominal hysterectomy |
| | 35664-00 | Radical abdominal hysterectomy with radical excision of pelvic lymph nodes |
| | 35664-01 | Radical vaginal hysterectomy with radical excision of pelvic lymph nodes |

| Procedure | Procedure Codes | Description |
|---|---|---|
| | 35667-01 | Radical vaginal hysterectomy |
| | 90443-00 | Other excision of uterus |
| | | |
| Prostatectomy | 37207-00 | Endoscopic laser ablation of prostate (includes TULIP) |
| | 37201-00 | Transurethral needle ablation of prostate |
| | 37203-00 | Transurethral resection of prostate |
| | 37203-02 | Transurethral electrical vaporisation of prostate |
| | 37203-04 | Microwave thermotherapy of prostate |
| | 37203-05 | High intensity focussed ultrasound (transrectal) of prostate |
| | 37207-01 | Endoscopic laser excision of prostate |
| | 37200-03 | Suprapubic prostatectomy |
| | 37200-04 | Retropubic prostatectomy |
| | 37224-00 | Endoscopic destruction of prostatic lesion |
| | 37224-01 | Endoscopic resection of prostatic lesion |
| | 90407-00 | Excision of other lesion of prostate |
| | 37203-03 | Cryoablation of prostate |
| Cataract surgery | 42698-00 | Intracapsular extraction of crystalline lens |
| | 42702-00 | Intracapsular extraction of crystalline lens with insertion of foldable artificial lens |
| | 42702-01 | Intracapsular extraction of crystalline lens with insertion of other artificial lens |
| | 42698-01 | Extracapsular extraction of crystalline lens by simple aspiration (and irrigation) technique |
| | 42702-02 | Extracapsular extraction of crystalline lens by simple aspiration (and irrigation) technique with insertion of foldable artificial lens |
| | 42702-03 | Extracapsular extraction of crystalline lens by simple aspiration (and irrigation) technique with insertion of other artificial lens |
| | 42698-02 | Extracapsular extraction of crystalline lens by phacoemulsification and aspiration of cataract |
| | 42702-04 | Extracapsular extraction of crystalline lens by phacoemulsification and aspiration of cataract with insertion of foldable artificial lens |
| | 42702-05 | Extracapsular extraction of crystalline lens by phacoemulsification and aspiration of cataract with insertion of other artificial lens |
| | 42698-03 | Extracapsular crystalline lens extraction by mechanical phacofragmentation and aspiration of cataract |

| Procedure | Procedure Codes | Description |
|---|---|---|
| | 42702-06 | Extracapsular crystalline lens extraction by mechanical phacofragmentation and aspiration of cataract with insertion of foldable artificial lens |
| | 42702-07 | Extracapsular crystalline lens extraction by mechanical phacofragmentation and aspiration of cataract with insertion of other artificial lens |
| | 42698-04 | Other extracapsular extraction of crystalline lens |
| | 42702-08 | Other extracapsular extraction of crystalline lens with insertion of foldable artificial lens |
| | 42702-09 | Other extracapsular extraction of crystalline lens with insertion of other artificial lens |
| | 42731-01 | Extraction of crystalline lens by posterior chamber sclerotomy with removal of vitreous |
| | 42698-05 | Other extraction of crystalline lens |
| | 42702-10 | Other extraction of crystalline lens with insertion of foldable artificial lens |
| | 42702-11 | Other extraction of crystalline lens with insertion of other artificial lens |
| Appendicectomy | 30571-00 | Appendicectomy |
| | 30572-00 | Laparoscopic appendicectomy |

Limited to public hospitals.

Denominator limited to separations with a separation date between 1 July and 19 May in the reference year.

Denominator excludes separations where the patient died in hospital.

Analysis by state and territory is based on location of service.

Analysis by remoteness and Socio-Economic Indexes for Areas (SEIFA) Index of Relative Socio-Economic Disadvantage (IRSD) is based on usual residence of person.

Presented per 1,000 separations.

**Computation:** 1,000 x (Numerator ÷ Denominator)

Calculated separately for each of the specified procedures

**Numerator:** Number of separations for public hospitals which meet all of the following criteria:

- The separation is a readmission to the same hospital following a separation in which one of the following procedures was performed: knee replacement; hip replacement; tonsillectomy and adenoidectomy; hysterectomy; prostatectomy; cataract surgery; appendicectomy (see the procedure codes in the Computation description field above)
- The readmission occurs within 28 days of the previous date of separation
- A principal diagnosis for the readmission has one of the following ICD10-AM codes: T80–88, T98.3, E89, G97, H59, H95, I97, J95, K91, M96 or N99

**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

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**Data Element / Data Set**

Establishment—sector, 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

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**Data Element / Data Set**

Admitted patient care waiting list episode—scheduled 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

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**Data Element / Data Set**

Episode of admitted patient care—separation 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

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**Data Element / Data Set**

Person—person identifier, XXXXXX[X(14)]

**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

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**Data Element / Data Set**

Episode of admitted patient care—procedure, code (ACHI 6th edn) NNNNN-NN

**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

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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 2010-11

**Guide for use**

Data source type: Administrative by-product data

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**Data Element / Data Set**

Elective surgery waiting list episode—indicator procedure, code NN

**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

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**Denominator:** Number of separations in which one of the following surgical procedures was undertaken: knee replacement; hip replacement; tonsillectomy and adenoidectomy; hysterectomy; prostatectomy; cataract surgery; appendicectomy.

**Denominator 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**

[Establishment—sector, 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 admitted patient care—separation 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—procedure, code (ACHI 6th edn) NNNNN-NN](#)

**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

| **Disaggregation:** | 2010–11—Nationally, by specified procedures by SEIFA Index of Relative Socio-Economic Disadvantage (IRSD) deciles |
| --- | --- |

2010–11—State and territory, by specified procedures, by:

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

Some disaggregations 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:**

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**Data Element / Data Set**

Hospital peer group

**Data Source**

National Public Hospital Establishment Database (NPHED)

**NMDS / DSS**

Public hospital establishments NMDS 2010-11

**Guide for use**

Data source type: Administrative by-product data

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**Data Element / Data Set**

Establishment—Australian state/territory identifier, 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

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**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

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**Data Element / Data Set**

Episode of admitted patient care—procedure, code (ACHI 6th edn) NNNNN-NN

**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

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**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 remoteness and SEIFA IRSD

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| | |
|---|---|
| **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. |
| | The title of this indicator was changed in the 2012 NHISSC specifications from *Unplanned/unexpected readmissions within 28 days of selected surgical admissions* to *Unplanned/unexpected readmissions within 28 days of selected surgical episodes of care* to better reflect how the indicator is calculated. Readmissions for this indicator are defined within 28 days from the end of the patient's surgical episode of care. |

## Representational attributes

| | |
|---|---|
| **Representation class:** | Rate |
| **Data type:** | Real |
| **Unit of measure:** | Person |
| **Format:** | N[N].N |

## Indicator conceptual framework

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|---|---|
| **Framework and dimensions:** | [Effectiveness](#) |
| | [Safety](#) |
| | [Accessibility](#) |

## Data source attributes

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**Data sources:**

**Data Source**

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

**Frequency**

Annual

**Data custodian**

Australian Institute of Health and Welfare

**Data Source**

[National Public Hospital Establishment Database (NPHED)](#)

**Frequency**

Annual

**Data custodian**

Australian Institute of Health and Welfare

## Accountability attributes

| | |
|---|---|
| **Reporting requirements:** | National Healthcare Agreement |
| **Organisation responsible for providing data:** | Australian Institute of Health and Welfare |
| **Further data development / collection required:** | Specification: Substantial work required, the measure requires significant work to be undertaken. |

# Relational attributes

**Related metadata references:**

Supersedes [National Healthcare Agreement: PI 43-Unplanned/unexpected readmissions within 28 days of selected surgical episodes of care, 2012](#)
[Health](#), Superseded 25/06/2013

Has been superseded by [National Healthcare Agreement: PI 23-Unplanned hospital readmission rates, 2014](#)
[Health](#), Superseded 14/01/2015

See also [National Healthcare Agreement: PI 16-Potentially avoidable deaths, 2013](#)
[Health](#), Superseded 30/04/2014

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

See also [National Healthcare Agreement: PI 22-Healthcare associated infections, 2013](#)
[Health](#), Superseded 25/11/2013