National Healthcare Agreement: PI 23–Unplanned hospital readmission rates, 2019

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# National Healthcare Agreement: PI 23–Unplanned hospital readmission rates, 2019

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| Identifying and definitional attributes |
| Metadata item type: | Indicator |
| Indicator type: | Progress measure |
| Short name: | PI 23–Unplanned hospital readmission rates, 2019 |
| METEOR identifier: | 698890 |
| Registration status: | [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Superseded 13/03/2020 |
| Description: | Unplanned and unexpected hospital readmissions to the same public hospitals within 28 days for selected surgical procedures. |
| Indicator set: | [National Healthcare Agreement (2019)](https://meteor.aihw.gov.au/content/698954)       [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Superseded 13/03/2020 |
| Outcome area: | [Hospital and Related Care](https://meteor.aihw.gov.au/content/393487)       [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Standard 07/07/2010       [National Health Performance Authority (retired)](https://meteor.aihw.gov.au/RegistrationAuthority/8), Retired 01/07/2016 |

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| Collection and usage attributes |
| Computation description: | Unplanned/unexpected hospital 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 (9th edn.) codes: T80–88, 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 |
| 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 1 of the following surgical procedures was undertaken: knee replacement; hip replacement; tonsillectomy and adenoidectomy; hysterectomy; prostatectomy; cataract surgery; or appendicectomy.The following is a list of the specific Australian Classification of Health Interventions (9th edn) procedure codes which are included in the specifications for each of the selected surgical procedures.

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| **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 |
|   | 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 |
|   | 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 |
|   | 90408–00 | Other destruction of lesion of prostate |
|   | 37207–01 | Endoscopic laser excision of prostate |
|   | 37200–03 | Subrapubic prostatectomy |
|   | 37200-04 | Retropubic prostatectomy |
|   | 37224-00 | Endoscopic destruction of lesion of prostate |
|   | 37224–01 | Endoscopic resection of lesion of prostate |
|   | 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 extraction of crystalline lens by mechanical phacofragmentation and aspiration of cataract |
|   | 42702–06 | Extracapsular extraction of crystalline lens by mechanical phacofragmentation and aspiration of cataract with insertion of foldable artificial lens |
|   | 42702–07 | Extracapsular extraction of crystalline lens 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 the service.Analysis by remoteness and Socio-Economic Indexes for Areas (SEIFA) Index of Relative Socio-Economic Disadvantage (IRSD) is based on usual residence of the 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; or appendicectomy (see procedure codes in *Computation description*)
* the readmission occurs within 28 days of the previous date of separation
* a principal diagnosis for the readmission has 1 of the following ICD-10-AM codes: T80–88, 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](https://meteor.aihw.gov.au/content/269967)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**NMDS / DSS**[Admitted patient care NMDS 2016-17](https://meteor.aihw.gov.au/content/612171)**Guide for use** Data source type: Administrative by-product data **Data Element / Data Set**[Establishment—organisation identifier (state/territory), NNNNN](https://meteor.aihw.gov.au/content/269975)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**NMDS / DSS**[Admitted patient care NMDS 2016-17](https://meteor.aihw.gov.au/content/612171)**Guide for use** Data source type: Administrative by-product data **Data Element / Data Set**[Establishment—sector, code N](https://meteor.aihw.gov.au/content/269977)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**NMDS / DSS**[Admitted patient care NMDS 2016-17](https://meteor.aihw.gov.au/content/612171)**Guide for use** Data source type: Administrative by-product data **Data Element / Data Set**[Episode of admitted patient care—separation date, DDMMYYYY](https://meteor.aihw.gov.au/content/270025)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**NMDS / DSS**[Admitted patient care NMDS 2016-17](https://meteor.aihw.gov.au/content/612171)**Guide for use** Data source type: Administrative by-product data **Data Element / Data Set**[Person—person identifier, XXXXXX[X(14)]](https://meteor.aihw.gov.au/content/290046)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**NMDS / DSS**[Admitted patient care NMDS 2016-17](https://meteor.aihw.gov.au/content/612171)**Guide for use** Data source type: Administrative by-product data **Data Element / Data Set**[Episode of care—principal diagnosis, code (ICD-10-AM 9th edn) ANN{.N[N]}](https://meteor.aihw.gov.au/content/588987)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**NMDS / DSS**[Admitted patient care NMDS 2016-17](https://meteor.aihw.gov.au/content/612171)**Guide for use** Data source type: Administrative by-product data  |
| 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](https://meteor.aihw.gov.au/content/269967)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**NMDS / DSS**[Admitted patient care NMDS 2016-17](https://meteor.aihw.gov.au/content/612171)**Guide for use** Data source type: Administrative by-product data **Data Element / Data Set**[Establishment—organisation identifier (state/territory), NNNNN](https://meteor.aihw.gov.au/content/269975)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**NMDS / DSS**[Admitted patient care NMDS 2016-17](https://meteor.aihw.gov.au/content/612171)**Data Element / Data Set**[Establishment—sector, code N](https://meteor.aihw.gov.au/content/269977)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**NMDS / DSS**[Admitted patient care NMDS 2016-17](https://meteor.aihw.gov.au/content/612171)**Guide for use** Data source type: Administrative by-product data **Data Element / Data Set**[Episode of admitted patient care—separation date, DDMMYYYY](https://meteor.aihw.gov.au/content/270025)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**NMDS / DSS**[Admitted patient care NMDS 2016-17](https://meteor.aihw.gov.au/content/612171)**Guide for use** Data source type: Administrative by-product data **Data Element / Data Set**[Episode of admitted patient care—procedure, code (ACHI 9th edn) NNNNN-NN](https://meteor.aihw.gov.au/content/589101)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**NMDS / DSS**[Admitted patient care NMDS 2016-17](https://meteor.aihw.gov.au/content/612171)**Guide for use** Data source type: Administrative by-product data  |
| Disaggregation: | 2016–17—Nationally, by specified procedures, by:* peer group
* Indigenous status
* remoteness (Australian Statistical Geography Standard (ASGS) 2011 Remoteness Structure)
* 2011 SEIFA IRSD quintiles

2016–17—State and territory, by specified procedures.Disaggregation by peer group used the peer group classification as described in the AIHW publication [*Australian hospital peer groups*](http://www.aihw.gov.au/publication-detail/?id=60129553446).Some disaggregations may result in numbers too small for publication. |
| Disaggregation data elements: | **Data Element / Data Set**[Establishment—Australian state/territory identifier, code N](https://meteor.aihw.gov.au/content/269941)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**NMDS / DSS**[Admitted patient care NMDS 2016-17](https://meteor.aihw.gov.au/content/612171)**Guide for use** Data source type: Administrative by-product data **Data Element / Data Set**[Establishment—organisation identifier (state/territory), NNNNN](https://meteor.aihw.gov.au/content/269975)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**NMDS / DSS**[Admitted patient care NMDS 2016-17](https://meteor.aihw.gov.au/content/612171)**Guide for use** Data source type: Administrative by-product dataUsed to derive hospital peer group **Data Element / Data Set**[Person—area of usual residence, statistical area level 2 (SA2) code (ASGS 2011) N(9)](https://meteor.aihw.gov.au/content/469909)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**NMDS / DSS**[Admitted patient care NMDS 2016-17](https://meteor.aihw.gov.au/content/612171)**Guide for use** Data source type: Administrative by-product dataUsed for disaggregation by remoteness and SEIFA IRSD **Data Element / Data Set**[Episode of admitted patient care—procedure, code (ACHI 9th edn) NNNNN-NN](https://meteor.aihw.gov.au/content/589101)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**NMDS / DSS**[Admitted patient care NMDS 2016-17](https://meteor.aihw.gov.au/content/612171)**Guide for use** Data source type: Administrative by-product data **Data Element / Data Set**[Person—Indigenous status, code N](https://meteor.aihw.gov.au/content/602543)**Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**NMDS / DSS**[Admitted patient care NMDS 2016-17](https://meteor.aihw.gov.au/content/612171)**Guide for use** Data source type: Administrative by-product data  |
| Comments: | Most recent data available for 2019 National Healthcare Agreement performance reporting: 2016–17.The scope of the National Hospital Morbidity Database 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.For 2016–17 data, the 2011 SEIFA IRSD quintile and decile data will be produced using the Australian Statistical Geography Standard 2011 geographical unit of Statistical Area Level 2.Note that for the 2016 and previous reports, disaggregations by public hospital peer group for this indicator were calculated using the peer group classification method as reported in [*Australian hospital statistics 2010–11*](http://www.aihw.gov.au/publication-detail/?id=10737421633). |
| Representational attributes |
| Representation class: | Rate |
| Data type: | Real |
| Unit of measure: | Person |
| Format: | N[NN].N |
| Indicator conceptual framework |
| Framework and dimensions: | [Effectiveness](https://meteor.aihw.gov.au/content/392587)[Safety](https://meteor.aihw.gov.au/content/392584)[Accessibility](https://meteor.aihw.gov.au/content/392591)  |
| Data source attributes |
| Data sources: | **Data Source**[National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)**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. |
| Source and reference attributes |
| Reference documents: | AIHW (Australian Institute of Health and Welfare) 2012. Australian hospital statistics 2010–11. Health services series no. 43. Cat. no. HSE 117. Canberra: AIHW.AIHW 2015. Australian hospital peer groups. Health services series no. 66. Cat. no. HSE 170. Canberra: AIHW. |
| Relational attributes  |
| Related metadata references: | Supersedes [National Healthcare Agreement: PI 23–Unplanned hospital readmission rates, 2018](https://meteor.aihw.gov.au/content/658485)       [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Superseded 19/06/2019Has been superseded by [National Healthcare Agreement: PI 23–Unplanned hospital readmission rates, 2020](https://meteor.aihw.gov.au/content/716786)       [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Standard 13/03/2020See also [National Healthcare Agreement: PI 16–Potentially avoidable deaths, 2019](https://meteor.aihw.gov.au/content/698908)       [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Superseded 13/03/2020See also [National Healthcare Agreement: PI 18–Selected potentially preventable hospitalisations, 2019](https://meteor.aihw.gov.au/content/698904)       [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Superseded 13/03/2020See also [National Healthcare Agreement: PI 22–Healthcare associated infections: Staphylococcus aureus bacteraemia, 2019](https://meteor.aihw.gov.au/content/698892)       [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Superseded 13/03/2020 |