National Healthcare Agreement: PI 23–Unplanned hospital readmission rates, 2022

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# National Healthcare Agreement: PI 23–Unplanned hospital readmission rates, 2022

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| Identifying and definitional attributes | |
| Metadata item type: | Indicator |
| Indicator type: | Progress measure |
| Short name: | PI 23–Unplanned hospital readmission rates, 2022 |
| METEOR identifier: | 742756 |
| Registration status: | [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Standard 24/09/2021 |
| Description: | Unplanned and unexpected hospital readmissions to the same public hospitals within 28 days for selected surgical procedures. |
| Indicator set: | [National Healthcare Agreement (2022)](https://meteor.aihw.gov.au/content/740910)  [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Standard 24/09/2021 |
| 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 (11th edn.) codes: T80–T88, E89, G97, H59, H95, I97, J95, K91, M96 or N99.   |  | | --- | | 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 Intraoperative and postprocedural disorders of endocrine and metabolic system, not elsewhere classified | | G97 Intraoperative and postprocedural disorders of nervous system, not elsewhere classified | | H59 Intraoperative and postprocedural disorders of eye and adnexa, not elsewhere classified | | H95 Intraoperative and postprocedural disorders of ear and mastoid process, not elsewhere classified | | I97 Intraoperative and postprocedural disorders of circulatory system, not elsewhere classified | | J95 Intraoperative and postprocedural disorders of respiratory system, not elsewhere classified | | K91 Intraoperative and postprocedural disorders of digestive system, not elsewhere classified | | M96 Intraoperative and postprocedural disorders of musculoskeletal system, not elsewhere classified | | N99 Intraoperative and 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, or appendicectomy.  The following is a list of the specific Australian Classification of Health Interventions (11th edn) 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 | |  | 49521–00 | Total arthroplasty of knee with bone graft to femur, unilateral | |  | 49524–00 | Total arthroplasty of knee with bone graft to femur and 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 | |  | 35653-00 | Subtotal abdominal hysterectomy | |  | 35653-05 | Laparoscopic subtotal abdominal hysterectomy | |  | 35657–00 | Vaginal hysterectomy | |  | 35750-00 | Laparoscopically assisted vaginal hysterectomy | |  | 35667–00 | Radical abdominal hysterectomy | |  | 35653-07 | Laparoscopic total abdominal hysterectomy | |  | 35667–01 | Radical vaginal hysterectomy | |  | 90443–00 | Other excision of uterus | | Prostatectomy | 37200–03 | Suprapubic prostatectomy | |  | 37200–04 | Retropubic prostatectomy | |  | 37224–00 | Endoscopic destruction procedures on prostate | |  | 37224–03 | Endoscopic resection of prostate | |  | 90407–00 | Excision of other lesion of prostate | |  | 90408–00 | Destruction procedures on prostate | |  | 90408–02 | Other closed destruction procedures on prostate | |  | 37209–01 | Laparoscopic radical prostatectomy | |  | 37210–01 | Laparoscopic radical prostatectomy with bladder neck reconstruction | |  | 37211–01 | Laparoscopic radical prostatectomy with bladder neck reconstruction and pelvic lymphadenectomy | |  | 37209–00 | Radical prostatectomy | |  | 37210–00 | Radical prostatectomy with bladder neck reconstruction | |  | 37211–00 | Radical prostatectomy with bladder neck reconstruction and pelvic lymphadenectomy | |  | 37200–05 | Other open prostatectomy | |  | 37203–06 | Other closed prostatectomy | | Cataract surgery | 42698–05 | Other extraction of crystalline lens | |  | 42698–06 | Intracapsular extraction of crystalline lens | |  | 42698–07 | Phacoemulsification of crystalline lens | |  | 42698–08 | Other extracapsular extraction of crystalline lens | |  | 42731–01 | Extraction of crystalline lens with removal of vitreous | | 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 one of the following ICD-10-AM codes: T80–T88, 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 2019-20](https://meteor.aihw.gov.au/content/699728)  **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 2019-20](https://meteor.aihw.gov.au/content/699728)  **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 2018-19](https://meteor.aihw.gov.au/content/676382)  **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 2019-20](https://meteor.aihw.gov.au/content/699728)  **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 2019-20](https://meteor.aihw.gov.au/content/699728)  **Guide for use**    Data source type: Administrative by-product data    **Data Element / Data Set**  [Episode of admitted patient care—procedure, code (ACHI 11th edn) NNNNN-NN](https://meteor.aihw.gov.au/content/699716)  **Data Source**  [National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)  **NMDS / DSS**  [Admitted patient care NMDS 2019-20](https://meteor.aihw.gov.au/content/699728)  **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 2019-20](https://meteor.aihw.gov.au/content/699728)  **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 2019-20](https://meteor.aihw.gov.au/content/699728)  **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 2019-20](https://meteor.aihw.gov.au/content/699728)  **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 2019-20](https://meteor.aihw.gov.au/content/699728)  **Guide for use**    Data source type: Administrative by-product data    **Data Element / Data Set**  [Episode of admitted patient care—procedure, code (ACHI 11th edn) NNNNN-NN](https://meteor.aihw.gov.au/content/699716)  **Data Source**  [National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)  **NMDS / DSS**  [Admitted patient care NMDS 2019-20](https://meteor.aihw.gov.au/content/699728)  **Guide for use**    Data source type: Administrative by-product data |
| Disaggregation: | 2019–20—Nationally, by specified procedures, by:   * peer group * Indigenous status * remoteness (Australian Statistical Geography Standard (ASGS) 2016 Remoteness Structure) * 2016 SEIFA IRSD quintiles.   2019–20—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 2019-20](https://meteor.aihw.gov.au/content/699728)  **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 2019-20](https://meteor.aihw.gov.au/content/699728)  **Guide for use**    Data source type: Administrative by-product data  Used to derive hospital peer group    **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 2019-20](https://meteor.aihw.gov.au/content/699728)  **Guide for use**    Data source type: Administrative by-product data    **Data Element / Data Set**  [Person—area of usual residence, statistical area level 2 (SA2) code (ASGS 2016) N(9)](https://meteor.aihw.gov.au/content/659725)  **Data Source**  [National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)  **NMDS / DSS**  [Admitted patient care NMDS 2019-20](https://meteor.aihw.gov.au/content/699728)  **Guide for use**    Data source type: Administrative by-product data Used for disaggregation by remoteness and SEIFA IRSD    **Data Element / Data Set**  [Episode of admitted patient care—procedure, code (ACHI 11th edn) NNNNN-NN](https://meteor.aihw.gov.au/content/699716)  **Data Source**  [National Hospital Morbidity Database (NHMD)](https://meteor.aihw.gov.au/content/394352)  **NMDS / DSS**  [Admitted patient care NMDS 2019-20](https://meteor.aihw.gov.au/content/699728)  **Guide for use**    Data source type: Administrative by-product data |
| Comments: | Most recent data available for 2022 National Healthcare Agreement performance reporting: 2019–20.  The scope of the 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.  For 2019–20 data, the 2016 SEIFA IRSD quintile and decile data will be produced using the Australian Statistical Geography Standard 2016 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. Viewed 28 May 2020, <https://www.aihw.gov.au/reports/hospitals/australian-hospital-statistics-2010-11/contents/table-of-contents>  AIHW 2015. *Australian hospital peer groups*. Health services series no. 66. Cat. no. HSE 170. Canberra: AIHW. Viewed 28 May 2020, <https://www.aihw.gov.au/reports/hospitals/australian-hospital-peer-groups/contents/table-of-contents> |
| Relational attributes | |
| Related metadata references: | Supersedes [National Healthcare Agreement: PI 23–Unplanned hospital readmission rates, 2021](https://meteor.aihw.gov.au/content/725779)  [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Standard 19/11/2020  See also [Australian Health Performance Framework: PI 2.1.4–Selected potentially preventable hospitalisations, 2020](https://meteor.aihw.gov.au/content/728333)  [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Standard 01/12/2020  See also [Australian Health Performance Framework: PI 2.1.6–Potentially avoidable deaths, 2020](https://meteor.aihw.gov.au/content/728337)  [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Superseded 31/03/2023  See also [Australian Health Performance Framework: PI 2.1.6–Potentially avoidable deaths, 2021](https://meteor.aihw.gov.au/content/765884)  [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Superseded 02/02/2024  See also [Australian Health Performance Framework: PI 2.2.1–Adverse events treated in hospitals, 2020](https://meteor.aihw.gov.au/content/728339)  [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Standard 13/10/2021  See also [Australian Health Performance Framework: PI 2.4.1–Unplanned hospital readmission rates, 2020](https://meteor.aihw.gov.au/content/728347)  [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Standard 13/10/2021  See also [National Healthcare Agreement: PI 16–Potentially avoidable deaths, 2022](https://meteor.aihw.gov.au/content/740864)  [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Standard 24/09/2021  See also [National Healthcare Agreement: PI 18–Selected potentially preventable hospitalisations, 2021](https://meteor.aihw.gov.au/content/725793)  [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Standard 16/09/2020  See also [National Healthcare Agreement: PI 18–Selected potentially preventable hospitalisations, 2022](https://meteor.aihw.gov.au/content/740851)  [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Standard 24/09/2021  See also [National Healthcare Agreement: PI 22–Healthcare associated infections: Staphylococcus aureus bacteraemia, 2022](https://meteor.aihw.gov.au/content/740834)  [Health](https://meteor.aihw.gov.au/RegistrationAuthority/12), Standard 24/09/2021 |