

AUSTRALIAN COMMISSION ON SAFETY AND QUALITY IN HEALTH CARE

National core, hospital-based outcome indicator specification 2019

Version 3

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Table of contents

Introduction.....	4
Position statement	5
Content	5
Process for the development of these specifications	5
Use of the specification	6
CHBOI Implementation Toolkit.....	7
National risk adjustment	7
Issues to consider.....	8
Terms and acronyms.....	9
Metadata.....	10
SECTION A - Whole-of-hospital mortality measures	11
CHBOI 1 - Hospital standardised mortality ratio (HSMR)	12
CHBOI 2 - Death in low-mortality DRGs	16
SECTION B - Condition-specific mortality measures	19
Context - The effect of transfers in and transfer out on condition-specific in-hospital mortality rates	19
CHBOI 3a - In-hospital mortality of patients admitted for Acute Myocardial Infarction (AMI)	21
CHBOI 3b - In-hospital mortality of patients admitted for stroke	25
CHBOI 3c - In-hospital mortality of patients admitted for fractured neck of femur.....	29
CHBOI 3d - In-hospital mortality of patients admitted for pneumonia	33
SECTION C - Readmission measures.....	37
Context – Same-hospital readmissions, true readmission rates, and ‘unplanned-ness’	38
Indicator reference periods.....	39
CHBOI 4a - Unplanned/unexpected same hospital readmissions of patients discharged following management of acute myocardial infarction (AMI).....	40
CHBOI 4b - Unplanned/unexpected same hospital readmissions of patients discharged following management of knee replacement.....	44
CHBOI 4c - Unplanned/unexpected same hospital readmissions of patients discharged following management of hip replacement.....	48
CHBOI 4d - Unplanned/unexpected same hospital readmissions of patients discharged following management of paediatric tonsillectomy and adenoidectomy	52
Appendix 1: Categories for principal diagnoses accounting for 80% of in-hospital deaths (CHBOI 1)	56
Appendix 2: Reference set low mortality DRG codes (CHBOI 2).....	60
Appendix 3: ICD-10-AM codes for trauma, immuno-compromised state or cancer for CHBOI 2	84
Appendix 4: Principal diagnosis codes for numerator (CHBOI 4a).....	90
Appendix 5: Principal diagnosis codes for the numerator for CHBOI 4b, 4c, 4d	127
Appendix 6: Methodology for generating national coefficients and reference sets .	162
References	164

Introduction

Purpose

The purpose of this document is to support the generation of core, hospital-based outcome indicators by States, Territories and private hospital ownership groups.

Version 3 April 2019 update

CHBOI 1 Hospital standardised mortality ratio (HSMR)

- National coefficients and national rate updated to 2016/17
- Reference set calculated for 3 year period – 2014/15, 2015/16 & 2016/17
- Coefficients and reference sets calculated using ICD 10-AM 9th & 10th editions.

CHBOI 2 Deaths in low-mortality Diagnosis Related Groups (DRGs)

- Reference set calculated for 3 year period – 2014/15, 2015/16 & 2016/17
- DRG version 8 and 9..

CHBOI 3 a-d Condition specific mortality

- National coefficients updated to 2016/17.
- ICD 10-AM 9th and 10th editions.

CHBOI 4 a-d Unplanned readmissions

- National rate updated to 2016/17
- Reference sets calculated using ICD 10-AM 9th and 10th editions.

Acknowledgement

Core, hospital-based outcome indicators builds on the following work:

- AHRQ Patient Safety Indicators (PSI) program (AHRQ 2012)
- Victoria Health's AusPSIs (Victorian Government Health Information 2010)
- Queensland Health's Variable Life Adjusted Displays (VLADs) (Centre for Healthcare Improvement 2012).

The concept of using nationally risk adjusted data to support local improvement came from the work on hospital-standardised mortality ratios (HSMRs) by the Flinders Medical Centre, the National Injury Surveillance Unit (NISU) and the Australian Institute of Health and Welfare (AIHW) (Ben-Tovim et al. 2009).

Elizabeth Hanley at ACSQHC led the drafting of the first versions. Sanja Lucic at University of Western Sydney (UWS) developed the flowchart approach, and Tim Harrold and Stuart Purdie, biostatisticians at the NSW Department of Health, also made significant contributions. Deniza Mazevska from Health Policy Analysis, Jenny Hargreaves (AIHW), and Kirstine Sketcher-Baker (Queensland Health) also provided input and critical review for previous versions.

Position statement

These indicators are intended to be generated by jurisdictions and private hospital ownership groups from their admitted patient data collections, and reported back to facilities to enable routine comparison of hospital outcomes over time, without initially setting benchmarks or targets. These indicators are not intended to support performance measurement or pay-for-performance schemes.

The safety and quality value lies in developing the report-review-act cycle, based on the routine supply of timely and targeted data back to hospitals.

Rationale

The rationale for ongoing monitoring and review by hospitals of a set of outcome-based indicators is that significant variance can be a signal for issues of either data quality and consistency, resources, or quality of care.

High outliers should be seen as a prompt to further detailed investigation. Insights may also be gained from inspection of low outliers (Mohammed et al. 2004).

Content

The national core hospital-based outcome indicators specified in this document are:

CHBOI 1 Hospital standardised mortality ratio (HSMR)

CHBOI 2 Death in low-mortality Diagnosis Related Groups (DRGs)

CHBOI 3 In-hospital mortality for:

- a) acute myocardial infarction (AMI)
- b) stroke
- c) fractured neck of femur, and
- d) pneumonia

CHBOI 4 Unplanned/unexpected hospital readmission of patients discharged following management of:

- a) acute myocardial infarction (AMI)
- b) knee replacements
- c) hip replacements
- d) paediatric tonsillectomy and adenoidectomy

Previous versions of the specifications contained indicators for healthcare associated *Staphylococcus aureus* bacteraemia and *Clostridium difficile* Infection. These have now been removed from this specification, and can be directly accessed from the Commission's website:

<https://www.safetyandquality.gov.au/our-work/healthcare-associated-infection/national-hai-surveillance-initiative/>

Development of specifications

These specifications were developed through a collaborative process, supported by jurisdictional experts, the private hospital sector and the AIHW.

The aim of the core, hospital-based outcome indicator (CHBOI) project is to enable routine generation, by jurisdictions or private hospital ownership groups, of the indicators by hospital with appropriate graphical presentation. The use of national coefficients and reference sets enhances the utility of their presentation.

The AHRQ PSI¹, Queensland VLAD² and Victorian AusPSI³ projects provided the starting point for the national specification of core, hospital-based outcome indicators.

The Australian Commission on Safety and Quality in Health Care established the National Core Indicators Working Party to provide oversight, technical input and review of the process.

The Commission and the Working Party were supported in this work by the AIHW.

Use of the specification

The national core hospital-based outcome indicator set is intended to be used by jurisdictions and private hospital ownership groups to generate hospital-level measures. The specification is designed for use by health organisations, in particular clinical epidemiologists, biostatisticians, data analysts, health service managers, and the health informatics and metadata communities.

It is acknowledged that some elements of the national specification may need local adjustment for implementation, as not all admitted patient data elements are consistently structured and named across jurisdictions.

¹ Agency for Healthcare Research and Quality, Patient Safety Indicators see http://www.qualityindicators.ahrq.gov/modules/psi_overview.aspx

² Variable Life Adjusted Displays, Queensland Health, see <http://www.health.qld.gov.au/psq/vlad/default.asp>

³ Australian Patient Safety Indicators, Department of Health Victoria, see <http://www.health.vic.gov.au/psi/auspsi>

CHBOI Implementation Toolkit

The following elements are provided to support local generation of the core indicators:

- detailed specification (this document)
- technical notes to support the generation of algorithms and reports
- SAS code
- national coefficients and reference sets.

National risk adjustment

Risk adjustment involves assessing the extent to which patient-level parameters – present at the time of admission – influence an outcome at a future point (AHRQ 2012).

Ideally, jurisdictions will generate their own hospital-level core indicators using the estimates of expected rates from the national-level data set provided by the Commission. One of the concerns with developing local models for risk-adjustment is that smaller jurisdictions or hospitals do not have sufficient data to generate robust expected rates for meaningful, and timely, indicators for their hospitals.

National risk adjustment is enabled by providing jurisdictions with a set of risk-adjusted coefficients to enable hospitals to compare themselves directly to the experiences of other Australian hospitals, while taking into account differences in their patient population. The risk adjustment coefficients provide information on the correlation between one particular variable (the predictor) and the outcome variable while holding other predictor variables constant (e.g. age group and the presence of specific conditions prior to admission). Essentially, the coefficients are risk adjusted national rates for each of the mortality indicators, against which hospitals can compare themselves. Because national coefficients are generated using a large amount of reference data, the coefficients for national risk-adjustment are likely to be reliable and stable.

Risk-adjustment of a hospital's rates for these indicators will take into account variables such as age, sex, co-morbidities, diagnoses, and other variables where relevant. The report *Measuring and reporting hospital mortality in patients* by Ben-Tovim et al. (2009) uses the variables mentioned above and others such as admission status (i.e. emergency versus planned admission) to generate the risk-adjusted mortality model for the computation of a hospital's standardised mortality ratio.

National coefficients can only be generated retrospectively under current arrangements, and therefore, for any period, risk adjustment will be based on data from a previous period. As a result, any change in rate of outcome or change to the coding standard could affect the appropriateness of the risk adjustment. Coefficients should be reviewed on a regular basis, to align with changes in coding systems (including coding rules) and trends in hospital outcomes.

It should be noted that there is no risk adjustment for:

- CHBOI 2 Death in low mortality DRGs
- CHBOI 4a to 4d Unplanned/unexpected hospital readmissions

However, stratification of results by hospital peer group will improve the comparability and relevance of the unadjusted rates.

Methodology for the creation of the national coefficients and reference sets

The Commission contracts with the AIHW to create the national coefficients and reference sets required for the CHBOI specifications. The methodology used is as per the approaches on which these indicators are based. For example, for CHBOI 1, the model from Ben-Tovim et al. (2009) is used. The specific methodology and time periods of the data used are in Appendix 6.

Issues to consider

1. Overdispersion

If a large number of values fall outside the confidence limit, this could be an indication of 'overdispersion'. This typically arises when there is insufficient risk adjustment or there are many small institutional factors that contribute to excess variability (Spiegelhalter 2005). Statistical techniques to handle over-dispersion can be found in Spiegelhalter (2005) and Mohammed et al. (2001).

2. Small jurisdictions

Hart et al. (2007) have proposed a method of charting small subgroup data, where control limits are modified by using exact Binomial distribution, rather than the Normal approximation which is commonly used. The method applies to Shewhart control charts. This technique could potentially be used in jurisdictions which have small hospitals.

3. Suppressing large numbers

Funnel plots construction involves plotting indicator values by hospital size, within each jurisdiction. For jurisdictions with relatively few large volume hospitals (generally principal referral) it might be preferred to suppress displaying these hospital values, to prevent their identification.

4. Risk adjustment

The premise for risk adjustment is that it applies equally across a range of hospital types. Possible signaling of specialist and children's hospitals (applicable to CHBOI 1 – HSMR) could be due to the lack of appropriate risk adjustment in these settings or potential coding problems. For this reason, these indicators are not recommended for use by specialised women's and children's hospitals.

5. Small numbers

The Canadian experience with reporting Hospital Standardised Mortality Ratios indicated that hospitals with an expected number of deaths lower than 20 should not be publicly reported (CIHI 2012b). The 'cut-off' or minimum number of events within a hospital for meaningful analysis needs to be considered for each of the indicators, as part of the method of presentation. A 'cut-off' of 30 or more separations for a quarter is recommended, and where less than 30 for a quarter but more than 30 for a year, presentation back to hospitals of the raw data and the annual rate is advisable.

Terms and acronyms

Charlson Index

The Charlson Index is an overall comorbidity score that has been shown to be highly associated with mortality and has been widely used in clinical research (CIHI 2012b).

Crude in-hospital mortality rate

The sum of all the deaths divided by the total number of hospital separations is the crude in-hospital mortality rate for that hospital⁴.

Disaggregation

Disaggregation refers to limiting the data to that which applies to specific groupings, such as population sub-groups of interest, for example, age, sex or indigenous status.

Disaggregation allows comparisons to be made between rates for different groups and a national rate for the indicator (AIHW 2009).

Expected number of deaths

The expected number of deaths for a hospital is based on the sum of the probabilities of in-hospital death for cases from that hospital. Coefficients derived from a logistic regression model are used to calculate the probability of in-hospital death. The logistic regression model is fitted with, for example, age, sex, length-of-stay group, admission category, diagnosis group, comorbidity group and transfers as independent variables.

Observed number of deaths

The observed number of deaths for a hospital is the sum of the actual number of deaths in that hospital.

International Statistical Classification of Diseases

The International Statistical Classification of Diseases -10th Revision – Australian Modification (ICD-10-AM) is used to code admitted episodes of care in Australian hospitals. The individual components of the system are:

- ICD-10-AM. This is used to code diseases and health problems.
- Australian Classification of Health Interventions (ACHI). This is used to code procedures and interventions.
- Australian Coding Standards (ACS) is used to assist in standardising coding amongst clinical coders, and gives guidance to users of the data on how to interpret clinical coding.

Metadata

The following metadata apply to ALL national core hospital-based outcome indicators.

<i>Metadata item type:</i>	Indicator
<i>Indicator type:</i>	Safety and quality
<i>Registration status:</i>	Proposed
<i>Indicator set:</i>	Core hospital-based outcome indicators

SECTION A - Whole-of-hospital mortality measures

This section provides the specification and flowchart for generation of whole-of-hospital mortality measures:

CHBOI 1 – HSMR Hospital standardised mortality ratios

CHBOI 2 – Death in low mortality Diagnosis Related groups (DRGs).

Note that these measures will not be meaningful for specialist children's and women's hospitals, where casemix is specialised and skewed toward specific populations, conditions and procedures.

Funnel plots are the recommended presentation format for HSMRs.

CHBOI 1 - Hospital standardised mortality ratio (HSMR)

Identifying and definitional attributes

<i>Short name:</i>	CHBOI 1 – Hospital standardised mortality ratio
<i>Description:</i>	The ratio of the observed number of hospital separations that end in the patient's death, to the number of separations expected to end in death based on the patient's characteristics, for principal diagnoses accounting for 80% of in-hospital mortality.
<i>Rationale:</i>	Hospital standardised mortality ratios (HSMRs) should be used as screening tools, rather than being assumed to be definitively diagnostic of poor quality and/or safety. This indicator is intended to signal that a problem may exist and that further detailed investigation is required. High relative mortality should be seen as a prompt to further detailed investigation. Insights may be gained from low relative mortality (Ben-Tovim et al. 2009, pp. 4; 95; 38).
<i>Limitations:</i>	There is considerable debate on the ability of HSMRs to identify quality of care issues rather than data artefacts (Kunadian et al. 2009; Mohammed & Deeks 2008).

Collection and usage attributes

<i>Population group:</i>	Age 29 days to 120 years (inclusive) at admission
<i>Computation:</i>	<p>The ratio of observed (actual) number of in-hospital deaths to expected number of in-hospital deaths, multiplied by 100:</p> $\text{HSMR} = \frac{\text{Observed number of in-hospital deaths}}{\text{Expected number of in-hospital deaths}} \times 100$
<i>Numerator:</i>	<p>Observed number of in-hospital deaths x 100</p> <p>where</p> <p>Observed number of in-hospital deaths = the total number of separations (meeting the denominator criteria) where separation mode⁵ = <i>died</i>.</p>
<i>Denominator:</i>	<p>Expected number of in-hospital deaths</p> <p>= the sum of the estimated probabilities of death for all separations meeting the denominator criteria, calculated using national risk-adjustment coefficients.</p>
<i>Denominator criteria:</i>	<p><u>Inclusions:</u></p> <ul style="list-style-type: none">• Principal diagnosis is in the national list of the top 80% of diagnoses, by frequency of in-hospital death, in the latest reference period (see Appendix 1)• Age at date of admission is between 29 days and 120 years, inclusive• Care type⁶ = <i>acute care, geriatric evaluation and management and</i>

⁵ METeOR identifier: 270094, value: 8.

maintenance care

- Length of stay (LOS, including leave days) is between 1 and 365 days, inclusive ($1 \leq \text{LOS} \leq 365$)
- Urgency status⁷ = *emergency, elective*.

Exclusions:

Risk adjustment:

- Missing admission mode, sex.
- Age at admission (years)
- Sex
- Principal diagnosis code (mapped to national in-hospital mortality risk deciles)
- Admission urgency status⁸: *emergency, elective*
- Length of stay (including leave days) categorised as 1 day, 2 days, 3-9 days, 10-15 days, 16-21 days and 22-365 days
- Additional (comorbid) diagnoses (Charlson index) categorised into 0 – Charlson Index score of 0; 1 – Charlson index score of 1; 2 Charlson index score ≥ 2
- Admission mode⁹ (inward transfer status) = *admitted patient transferred from another hospital*.

Disaggregation:

Establishment-organisation identifier

Comments:

Risk adjustment is based on the Canadian referred mortality model (RACM) (Ben-Tovim et al. 2009, p.43). The response variable is the probability of in-hospital mortality, and the predictor variables include those listed under the risk adjustment. Coefficients from national risk-adjustment modelling are used to calculate the probability of in-hospital death for each case from a hospital. The sum of the probabilities of death will form the expected number of deaths. The Charlson index score should be calculated using the Quan et al. method (2005).

Separations with palliative care recorded as an additional diagnosis¹⁰ but without a palliative care type separation has a variable effect on HSMRs dependent on peer group and jurisdiction (AIHW 2011a). For example, hospitals in peer groups A1 and C2 were most affected by the inclusion of palliative care as an additional diagnosis code in the HSMR calculation, with an average change in rank of 8 places within each peer group. Hospitals in the B1 peer group evidenced the least amount of change in rank as a result of the inclusion of palliative care as an additional diagnosis code.

Nevertheless, this indicator does not exclude palliative care as an additional diagnosis based on the principle that a problem may exist if a patient is admitted for acute care (regardless of whether or not they also received palliative care) and they subsequently die in hospital, and that further

⁶ METeOR identifier: 270174, values: 1.0, 4.0, 6.0.

⁷ METeOR identifier: 269986, values: 1, 2.

⁸ METeOR identifier: 269986, values: 1, 2.

⁹ METeOR identifier: 269976, value: 1.

¹⁰ ICD-10-AM 9th edition code of Z51.5.

detailed investigation is required.

Note: Dr Foster report rates of hospital deaths which are coded as palliative, as contextual information. This is thought to explain some of the differences between a hospital's SHMI and HSMR (Dr Foster Intelligence 2011).

Interpretation:

A value of 100 indicates that the mortality ratio is the same as the national ratio for patients with similar characteristics to those treated. A value of more than 100 corresponds to a higher than expected mortality ratio, while a value of less than 100 corresponds to a lower than expected mortality ratio.

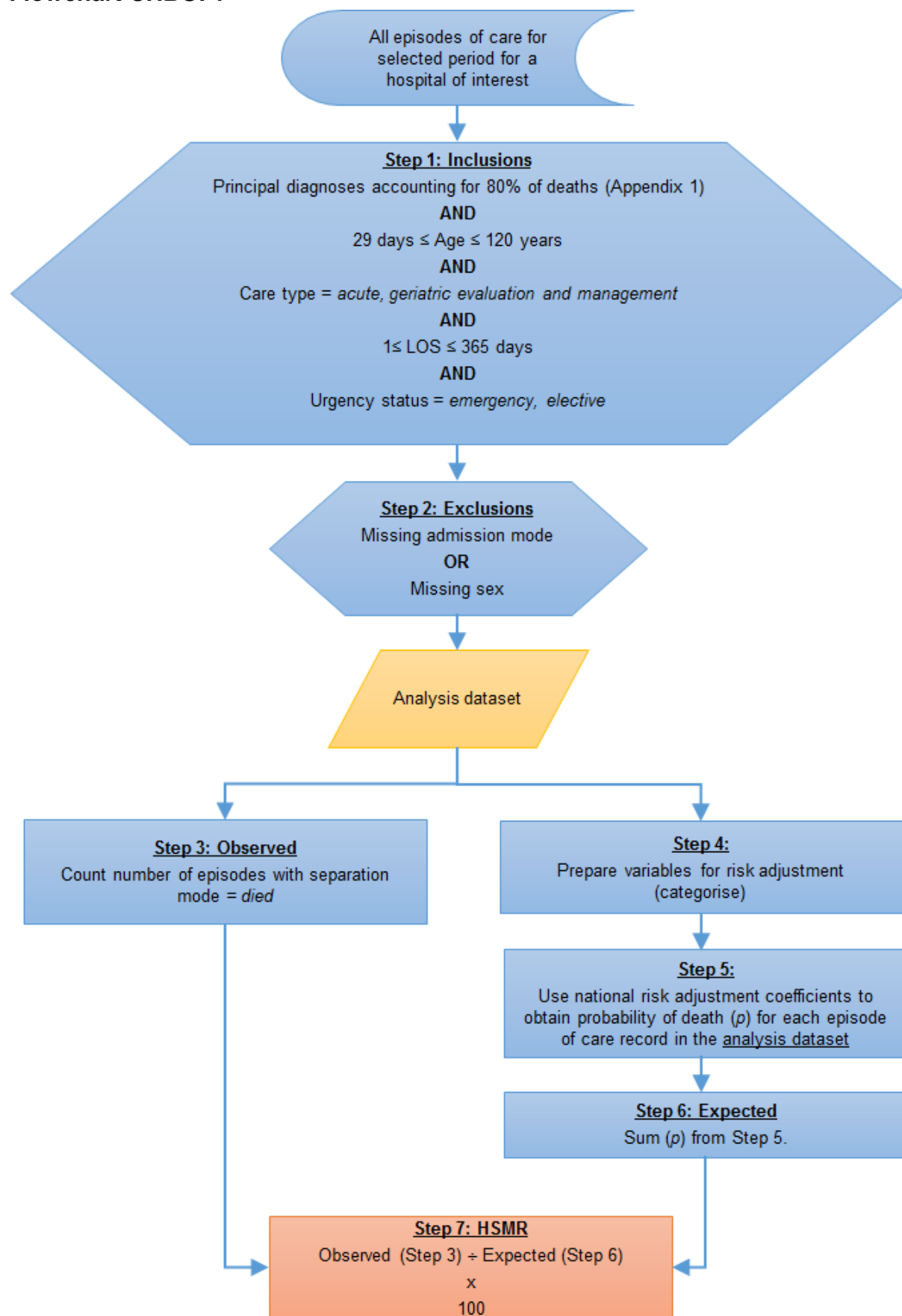
Variations in hospital mortality should be viewed as screening tests rather than being diagnostic of poor safety or quality. High or rising HSMRs signal that a problem might exist and that further investigation is required. Low or falling HSMRs might signal good performance, from which lessons could be learned (Ben-Tovim et al. 2009).

Investigations of significant variations from 100 should consider a range of possible explanations including: data quality (e.g. relevant co-morbidities not recorded); differences from the national patient population that are not addressed by the risk adjustment model; structural or resource issues (e.g. staff shortages, ward closures, etc.); changes in treatment protocols; and professional practice (i.e. individual clinical staff actions) (Mohammed et al. 2004).

References

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Flowchart CHBOI 1



CHBOI 2 - Death in low-mortality DRGs

Identifying and definitional attributes

<i>Short name:</i>	CHBOI 2 – Death in low-mortality DRGs
<i>Description:</i>	In-hospital deaths in Diagnosis Related Groups with a mortality rate less than 0.5%
<i>Rationale:</i>	Hospital mortality indicators should be used as screening tools, rather than being assumed to be definitively diagnostic of poor quality and/or safety. This indicator is intended to signal that a problem may exist and that further detailed investigation is required. This indicator is intended to identify in-hospital deaths in patients unlikely to die during hospitalisation. The underlying assumption is that when patients admitted for an extremely low-mortality condition or procedure die, a health care error is more likely to be responsible.
<i>Limitations:</i>	<p>Barker et al. (2011) conducted an audit of the reported Death in Low Mortality DRG-flagged cases in Victorian hospitals. They identified an increased risk of death for low mortality DRGs associated with increasing age, admission from residential care facility, emergency admission and low hospital volumes.</p> <p>Mihrshahi et al. (2010), also at Monash, also reviewed the literature for this indicator concluding that there are limitations to the use of this indicator to assess safety and quality. They recommend its use as a “<i>screening tool for institutions to quickly and easily identify a manageable number of medical records to investigate in more detail</i>” (p. 250).</p>

Collection and usage attributes

<i>Population group:</i>	Adults aged 18 – 120 years (inclusive) at admission
<i>Computation:</i>	<p>The percentage of separations for low mortality diagnosis-related groups (DRGs) that end in death in hospital:</p> $\frac{\text{Number of in-hospital deaths for low mortality DRGs}}{\text{Number of separations for low mortality DRGs}} \times 100$
<i>Numerator:</i>	<p>Number of in-hospital deaths for low mortality DRGs x 100</p> <p><i>Where</i></p> <p>Number of in-hospital deaths = total number of separations (meeting denominator criteria) and separation mode¹¹ = <i>died</i>.</p>
<i>Denominator:</i>	<p>Number of separations in low-mortality DRGs.</p> <p>Low mortality DRGs are defined as DRGs with a national mortality of less than 0.5% over the previous 3 years (Appendix 2).</p>

¹¹ METeOR identifier: 270094, value: 8.

Denominator
criteria:

Inclusions:

- Age at date of admission is between 18 and 120 years, inclusive
- DRGs codes: *low mortality DRGs* (see Appendix 2 for list of codes)
- Care type¹² = *acute care*.

Exclusions:

- Any diagnosis (principal or additional) and/or any procedure of *trauma, immuno-compromised state, cancer* (see Appendix 3).

Disaggregation:

Establishment-organisation identifier

Interpretation:

High or rising values signal that a problem might exist and that further investigation is required.

Investigations should consider a range of possible explanations including: differences from the national patient population; structural or resource issues (e.g. staff shortages, ward closures, etc.); changes in treatment protocols; and professional practice (i.e. individual clinical staff actions) (Mohammed et al. 2004).

References

Reference
documents:

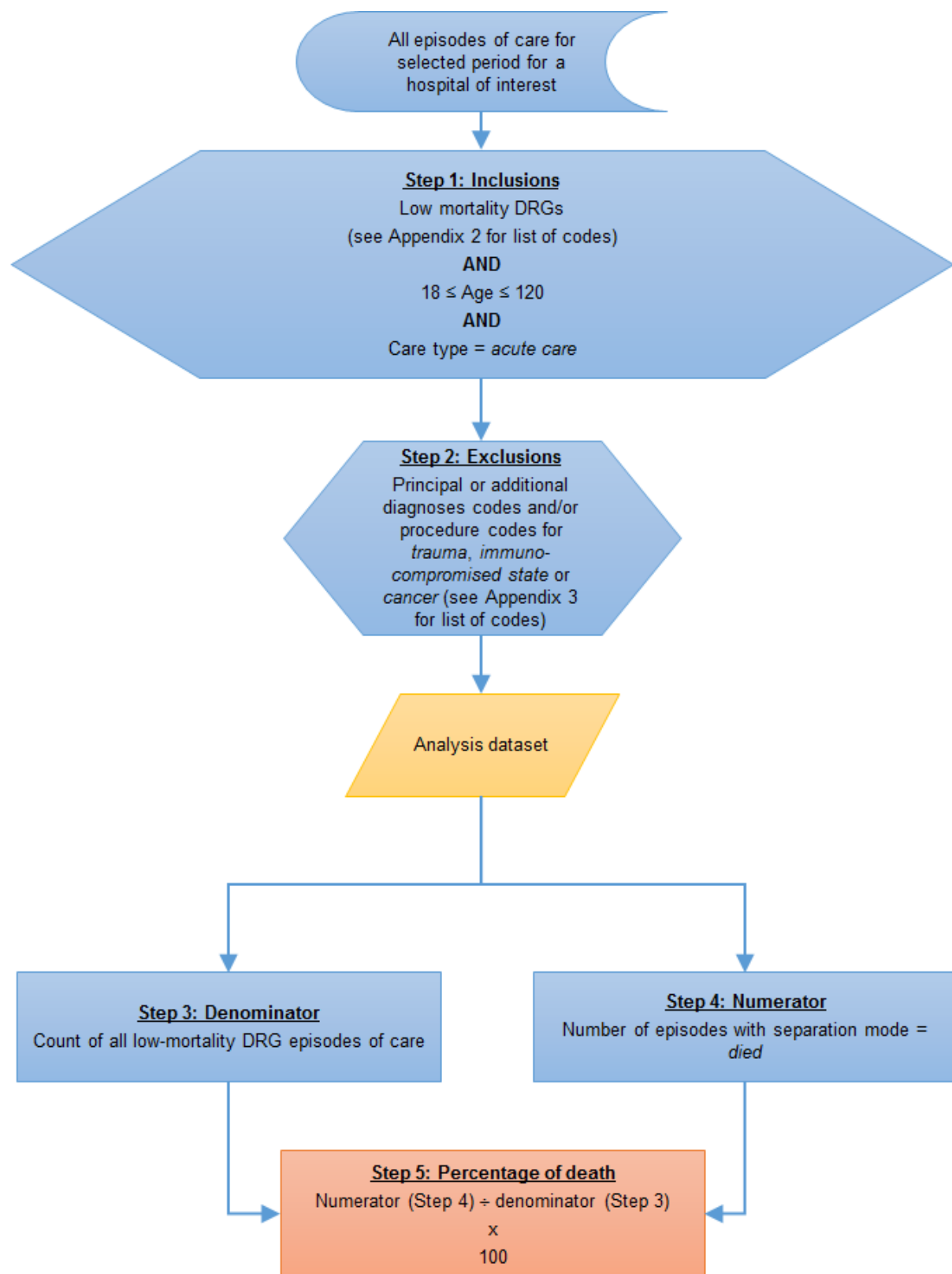
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<http://www.health.vic.gov.au/__data/assets/pdf_file/0009/270855/Translated-Technical-Specifications.pdf>.

¹² METeOR identifier: 270174, value: 1.0

Flowchart CHBOI 2



SECTION B - Condition-specific mortality measures

This section provides the specification and flowchart for generation of condition-specific hospital mortality measures:

CHBOI 3a – acute myocardial infarction (AMI)

CHBOI 3b – stroke

CHBOI 3c – fractured neck of femur

CHBOI 3d – pneumonia.

These are high-risk conditions for which there are accepted clinical management practices and guidelines. Significantly higher mortality for a given hospital can be a signal that processes of care are worse than they need to be, or alternatively that data, coding and classification issues are confounding.

In terms of presentation to jurisdictions and private hospital ownership groups, Kunadian et al. (2009) wrote:

The SPC [Statistical Process Control] funnel plot is an easy-to-interpret, risk-adjusted means of identifying units whose performance, in terms of mortality, diverges significantly from the population mean. Funnel plots may be applied to a complex dataset and allow a visual comparison of data derived from multiple healthcare units. Variation is readily identified permitting hospitals and cardiologists to appraise their practices so that effective quality improvement may take place. (p. 589)

It is recommended that hospitals monitor their own variance use control charts or VLADs (Coory et al. 2008).

Note that these measures are not meaningful for specialist children's and women's hospitals, as these conditions are generally not encountered in these hospitals.

Context – The effect of transfers in and transfer out on condition-specific in-hospital mortality rates

The main issues raised when looking at the design and findings of this indicator is *the effect of inclusion or exclusion of transfers in and transfers out*.

Is the comparability of the measure for a given hospital or set of hospitals compromised by a care practice where, for example, specific conditions are transferred to a more specialised unit? Within the populations identified through these indicators, the fractured neck of femur group was *most* characterised by *transfer out* in the Australian data reviewed by AIHW.

In particular, are a more specialised hospital's rates *skewed* by the transfer in of these patients for specialised management?

In 2011, the AIHW provided the Commission and the Core Indicators Working Party with some analyses on the effect of including and excluding *transfers in* and *transfers out* (AIHW Australian Institute of Health and Welfare 2011b). The key findings with regard to this indicator group were:

- For almost all hospitals, including transfers out would lead to lower mortality rates, with the largest difference occurring for in-hospital mortality of patients admitted for stroke and fractured neck of femur.
- Excluding transfers in (as is currently specified for most indicators) generally decreases the number of in-hospital deaths (by 9–10% for most indicators, apart from deaths from fractured neck of femur which decreased by 16%).
- The effect on in-hospital mortality ratios of including transfers in tends to vary by individual hospital.

CHBOI 3a - In-hospital mortality of patients admitted for Acute Myocardial Infarction (AMI)

Identifying and definitional attributes

<i>Short name:</i>	CHBOI 3a – In-hospital mortality for AMI
<i>Description:</i>	In-hospital deaths of patients admitted for Acute Myocardial Infarction
<i>Rationale:</i>	Hospital mortality indicators should be used as screening tools, rather than being assumed to be definitively diagnostic of poor quality and/or safety. This indicator is intended to signal that a problem may exist and that further detailed investigation is required. High outlier rates should be seen as a prompt to further investigation. Learnings may be applied from low outlier rates.
<i>Limitations:</i>	<p>The impact of including ‘transfers out’ on the calculation of this indicator is not fully understood, but it is suggested it may lead to a lower rate, and in some cases, different hospitals being outliers.</p> <p>Management of AMI may include a rehabilitation program, which may be delivered in the same facility (type change), another facility or the ambulatory setting. There is a risk that different clinical and care type classification practices can reduce the comparability of results.</p>

Collection and usage attributes

<i>Population group:</i>	Adults aged 18 – 89 years (inclusive) at admission
<i>Computation:</i>	<p>The ratio of observed (actual) number of in-hospital deaths to expected number of in-hospital deaths for Acute Myocardial Infarction (AMI) patients, multiplied by the national mortality rate for AMI patients :</p> $\frac{\text{Observed number of in-hospital deaths for AMI patients}}{\text{Expected number of in-hospital deaths for AMI patients}} \times \text{national mortality rate for AMI patients}$
<i>Numerator:</i>	<p>Observed number of in-hospital deaths for AMI patients × national in-hospital mortality rate for AMI patients</p> <p>where</p> <p>Observed number of in-hospital deaths for AMI patients = the total number of separations (meeting the denominator criteria) where separation mode¹³ = <i>died</i>.</p> <p>National mortality rate = national observed number of in-hospital deaths for AMI ÷ national observed number of separations for AMI.</p>
<i>Denominator:</i>	<p>Expected number of in-hospital deaths for AMI patients</p> <p>= the sum of the estimated probabilities of death for all separations (meeting the denominator criteria), calculated using national risk-adjustment coefficients</p>

¹³ METeOR identifier: 270094, value: 8.

Denominator conditions:

Inclusions:

- Principal diagnosis of AMI, represented by one of the following codes¹⁴:

Diagnosis code	Description
I21.0	Acute transmural myocardial infarction of anterior wall
I21.1	Acute transmural myocardial infarction of inferior wall
I21.2	Acute transmural myocardial infarction of other sites
I21.3	Acute transmural myocardial infarction of unspecified site
I21.4	Acute subendocardial myocardial infarction
I21.9	Acute myocardial infarction, unspecified

- Age at admission date is between 18 and 89 years, inclusive
- Care type¹⁵ = *acute care*.
- Urgency status¹⁶ = *emergency*.
- Length of stay (LOS), including leave days) is between 1 and 30 days, inclusive ($1 \leq \text{LOS} \leq 30$) (but not including same day).

Exclusions:

- Additional diagnosis¹⁷ of *Cardiac arrest* (I46.x) AND Condition onset flag¹⁸ = *Condition not noted as arising during the episode of admitted patient care*.
- Same day separations (where date of admission is equal to the date of separation).

Risk adjustment:

- Age in years at date of admission
- Sex
- Additional (comorbid) diagnoses¹⁹ (10 dichotomous variables):
 - Dementia (F00.x* (G30.x†), F01.x, F02.x*, F03.x)
 - Alzheimer's disease and other dementia (G30.x, G31.0, G31.1)
 - Hypotension (I95.x)
 - Shock (R57.x, A48.3)
 - Kidney (renal) failure (N17.x, N18.3, N18.4, N18.5, N18.9, N19.x R34.x)
 - Heart failure (I50.x, I11.0, I13.0, I13.2)
 - Dysrhythmia (I46.x, I47.x, I48.x, I49.x)
 - Malignancy (C00.x -C96.x, except C44.x)
 - Hypertension (I10.x to I15.x, I27.0, I27.2, I67.4, K76.6)
 - Cerebrovascular disease (I60.x -I69.x).

Note on symbols:

Dagger (†) (aetiology) – this symbol immediately following a code denotes that the code describes the underlying cause or aetiology of a disease. It is known as a 'dagger' code and is usually paired with an 'asterisk' code.

Asterisk (*) (manifestation) – this symbol immediately following a code denotes

¹⁴ ICD-10-AM 9th edition.

¹⁵ METeOR identifier: 270174, value: 1.0.

¹⁶ METeOR identifier: 269986, value: 1.

¹⁷ ICD-10-AM 9th edition.

¹⁸ METeOR identifier: 354816, value: 2.

¹⁹ ICD-10-AM 9th edition.

that the code describes the manifestation of the disease. It is known as an 'asterisk' code, and must always be paired and sequenced after the 'aetiology' code.

Disaggregation: Establishment-organisation identifier

Presentation: It is important to use graphics that focus on demonstrating a hospital's *outlier status* and the significance of the results, rather than ranking based on ratios without confidence intervals.

Funnel plots are the recommended presentation format for jurisdictions and private hospital ownership groups to identify outlier hospitals. Funnel plots should be generated using *national coefficients*, and presentation of hospitals within peer groups will improve comparability.

Statistical process control charts are recommended for hospitals to track their own results.

Comments: Risk adjustment should be performed using a logistic regression model. The response variable will be the probability of in-hospital mortality, and the predictor variables include those listed under the risk adjustment. Coefficients from national risk-adjustment modelling are used to calculate the probability of in-hospital death for each case from a hospital. The sum of the probabilities of death will form the expected number of deaths.

Interpretation: A value higher than the national (100) corresponds to a higher than expected mortality ratio, while a value of lower than the national corresponds to a lower than expected mortality ratio.

High or rising rates signal that a problem might exist and that further investigation is required.

Investigations should consider a range of possible explanations including: differences from the national patient population that are not addressed by the risk adjustment model; structural or resource issues (e.g. staff shortages, ward closures, etc.); changes in treatment protocols; and professional practice (i.e. individual clinical staff actions) (Mohammed et al 2004).

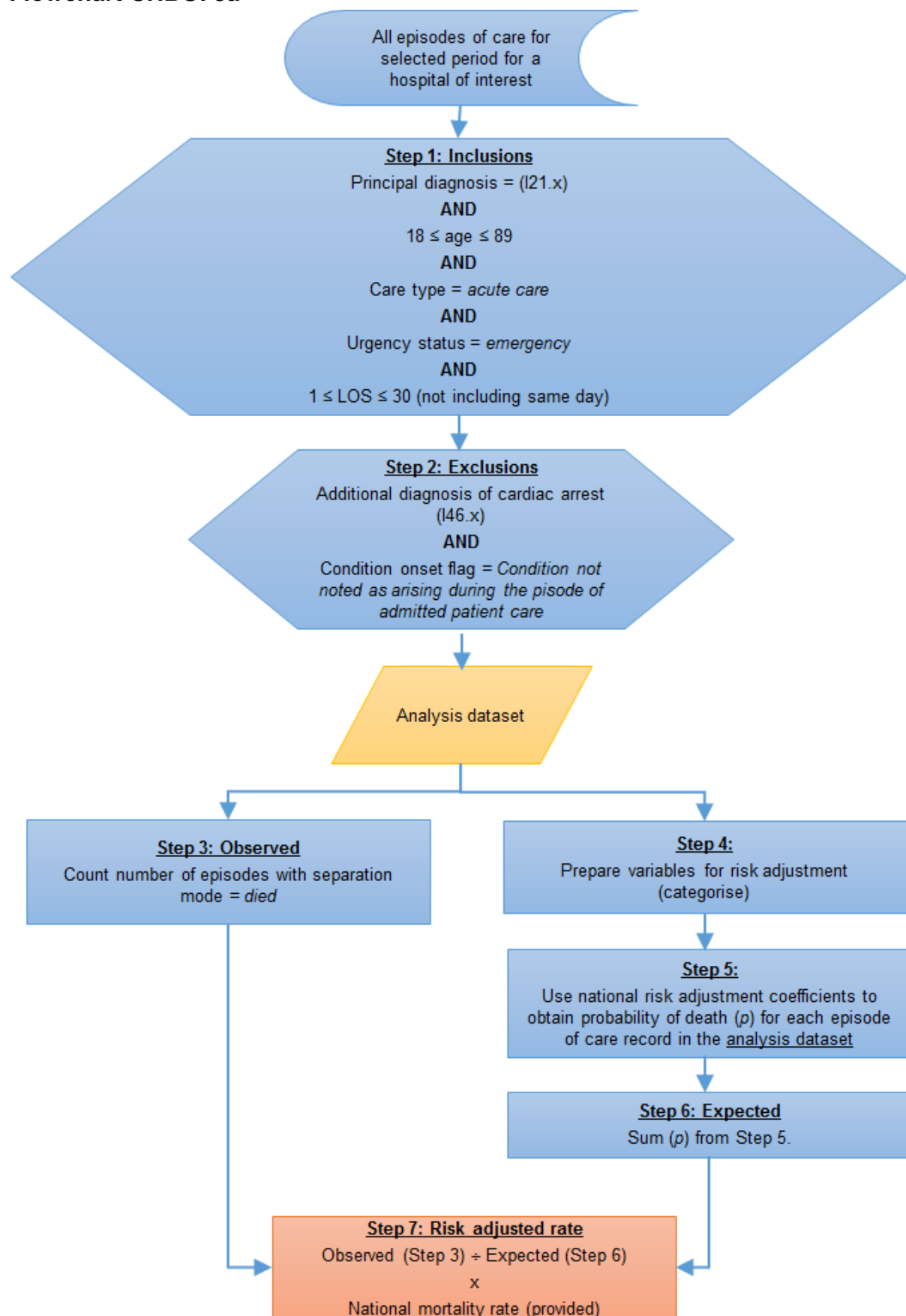
References

Reference documents: Agency for Healthcare Research and Quality:
<<http://www.qualityindicators.ahrq.gov>>

Patient Safety and Quality Improvement Service, Queensland Health VLAD Indicator Definitions:
<http://www.health.qld.gov.au/psq/vlad/html/vlad_homepage.asp>

Mohammed, A, Rathbone, A, Myers, P, Patel, D, Onions, H & Stevens, A 2004, 'An investigation into general practitioners associated with high patient mortality flagged up through the Shipman inquiry: retrospective analysis of routine data', *British Medical Journal*, vol. 328, no. 7454, pp. 1474–7.

Flowchart CHBOI 3a



CHBOI 3b - In-hospital mortality of patients admitted for stroke

Identifying and definitional attributes

<i>Short name:</i>	CHBOI 3b – In-hospital deaths of stroke patients
<i>Description:</i>	In-hospital deaths of patients admitted for stroke
<i>Rationale:</i>	Hospital mortality indicators should be used as screening tools, rather than being assumed to be definitively diagnostic of poor quality and/or safety. This indicator is intended to signal that a problem may exist and that further detailed investigation is required. Quality processes of care may reduce short-term mortality. High outlier rates should be seen as a prompt to further investigation. Learnings may be applied from low outlier rates.
<i>Limitations:</i>	<p>The inclusion or exclusion of transfers in appears to have little effect on this indicator. The effect of including or excluding transfers out, however, is less clear.</p> <p>High quality stroke management includes a rehabilitation program, which can be delivered in the same facility (type change), another facility or the ambulatory setting. As with the AMI indicator, there is a risk that different clinical and care type classification practices can reduce the comparability of results.</p>

Collection and usage attributes

<i>Population group:</i>	Adults aged 18 – 89 years (inclusive) at admission.
<i>Computation:</i>	<p>The ratio of observed (actual) number of in-hospital deaths to expected number of in-hospital deaths for stroke patients, multiplied by the national mortality rate for stroke patients :</p> $\frac{\text{Observed number of in-hospital deaths for stroke patients}}{\text{Expected number of in-hospital deaths for stroke patients}} \times \text{national mortality rate for stroke patients}$
<i>Numerator:</i>	<p>Observed number of in-hospital deaths for stroke patients × national in-hospital mortality rate for stroke patients</p> <p>where</p> <p>Observed number of in-hospital deaths for stroke patients = the total number of separations (meeting the denominator criteria) where separation mode²⁰ = <i>died</i>.</p> <p>National mortality rate = national observed number of in-hospital deaths for stroke ÷ national observed number of separations for stroke.</p>
<i>Denominator:</i>	<p>Expected number of in-hospital deaths for stroke patients</p> <p>= the sum of the estimated probabilities of death for all separations (meeting the denominator criteria), calculated using national risk-adjustment coefficients</p>
<i>Denominator</i>	<u>Inclusions:</u>

²⁰ METeOR identifier: 270094, value: 8.

- criteria:*
- Principal diagnosis of stroke (I61.x – I64.x)²¹
 - Age at date of admission is between 18 and 89 years, inclusive
 - Care type²² = *acute care*
 - Length of stay (LOS, including leave days) is between 1 and 30 days, inclusive ($1 \leq \text{LOS} \leq 30$).

Exclusions:

- Any procedure: codes²³ 33500-00 [700], 32703-00 [718].

Risk adjustment:

- Age in years at date of admission.
- Additional (comorbid) diagnoses²⁴ (3 dichotomous variables):
 - Kidney (renal) failure (N17.x, N19.x, N18.3, N18.4, N18.5, N18.9, R34.x)
 - Heart failure (I50.x, I11.0, I13.0, I13.2)
 - Malignancy (C00.x – C96.x, except C44.x).

Disaggregation: Establishment-organisation identifier

Presentation: It is important to use graphics that focus on demonstrating a hospital's *outlier status* and the significance of the results, rather than ranking based on ratios without confidence intervals.

Funnel plots are the recommended presentation format for jurisdictions and private hospital ownership groups to identify outlier hospitals.

Funnel plots should be generated using *national coefficients*, and presentation of hospitals within peer groups will improve comparability.

Statistical process control charts are recommended for hospitals to track their own results.

Comments: Risk adjustment should be performed using a logistic regression model. The response variable will be the probability of in-hospital mortality, and the predictor variables include those listed under the risk adjustment. Coefficients from national risk-adjustment modelling are used to calculate the probability of in-hospital death for each case from a hospital. The sum of the probabilities of death will form the expected number of deaths.

Interpretation: A value higher than the national (100) corresponds to a higher than expected mortality ratio, while a value of lower than the national corresponds to a lower than expected mortality ratio.

High or rising values signal that a problem might exist and that further investigation is required.

Investigations should consider a range of possible explanations including: coding and clinical documentation issues, differences from the national patient population that are not addressed by the risk adjustment model; structural or resource issues

²¹ ICD-10-AM 9th edition.

²² METeOR identifier: 270174, value: 1.0.

²³ ACHI 9th edition.

²⁴ ICD-10-AM 9th edition.

(e.g. staff shortages, ward closures, etc.); changes in treatment protocols; and professional practice (i.e. individual clinical staff actions) (Mohammed et al 2004).

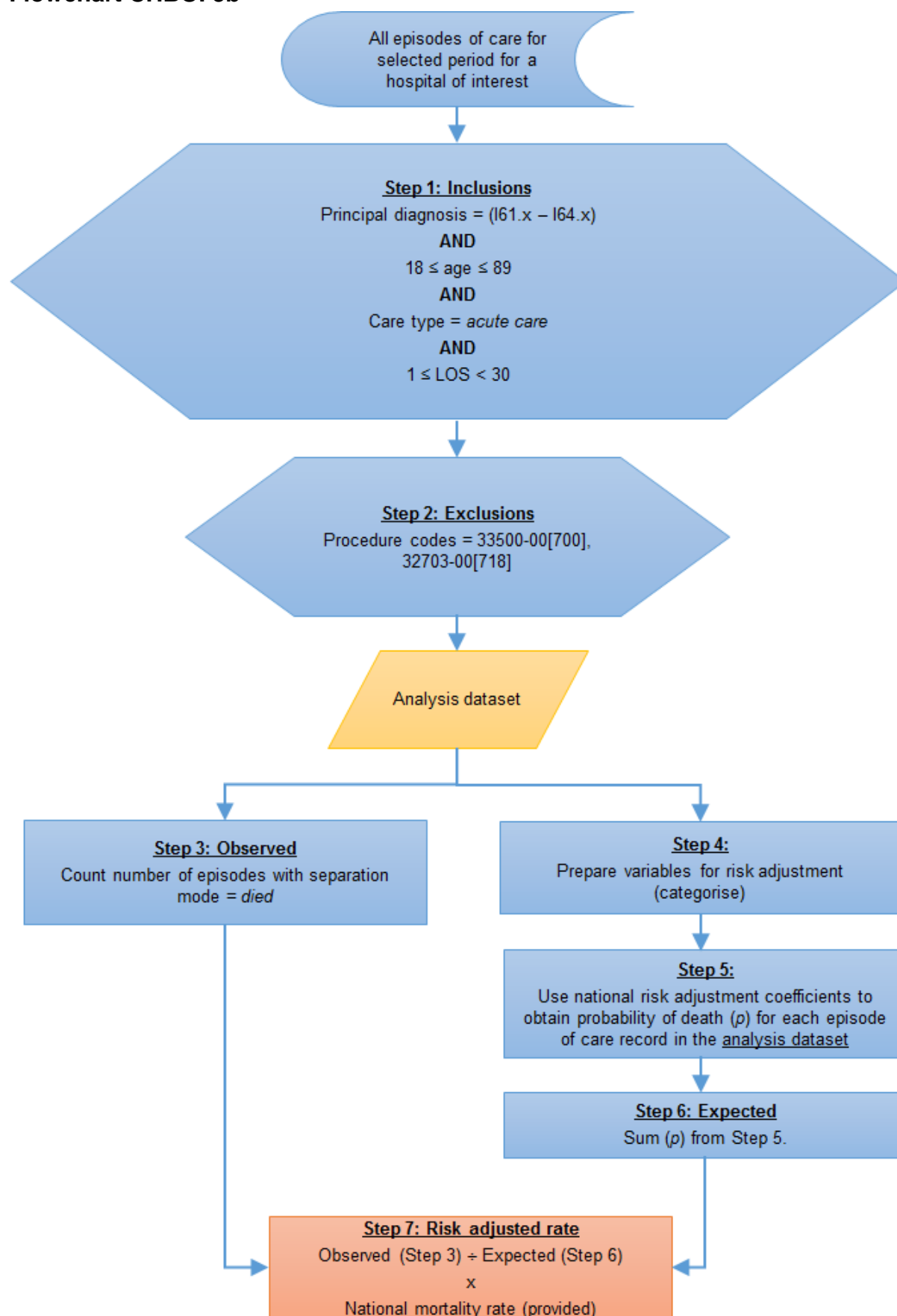
References

*Reference
documents:*

Agency for Healthcare Research and Quality:
<<http://www.qualityindicators.ahrq.gov>>

Patient Safety and Quality Improvement Service, Queensland Health VLADS
Indicator Definitions:
<http://www.health.qld.gov.au/psq/vlad/html/vlad_homepage.asp>

Flowchart CHBOI 3b



CHBOI 3c - In-hospital mortality of patients admitted for fractured neck of femur

Identifying and definitional attributes

<i>Short name:</i>	CHBOI 3c – In-hospital mortality for fractured neck of femur
<i>Description:</i>	In-hospital deaths of patients admitted for fractured neck of femur surgery.
<i>Rationale:</i>	Hospital mortality indicators should be used as screening tools, rather than being assumed to be definitively diagnostic of poor quality and/or safety. This indicator is intended to signal that a problem may exist and that further detailed investigation is required. High outlier rates should be seen as a prompt to further investigation. Learnings may be applied from low outlier rates.
<i>Limitations:</i>	<p>A large number of hospitals will admit, via emergency departments, people with a fractured femur, and then transfer them to a hospital with better capacity to repair and manage hip fractures. This practice is designed to optimise treatment for the injured patient, but can mean the receiving and treating hospital has a hip fracture population (denominator) with longer times to operating theatre than a hospital.</p> <p>Management of fractured hip typically includes a rehabilitation program, which can be delivered in the same facility (type change), another facility or the ambulatory setting. As with the AMI and stroke indicators, there is a risk that different clinical and care type classification practices can reduce the comparability of results.</p>

Collection and usage attributes

<i>Population group:</i>	Adults aged 50 – 120 years (inclusive) at admission.
<i>Computation:</i>	<p>The ratio of observed (actual) number of in-hospital deaths to expected number of in-hospital deaths for fractured neck of femur (NOF) patients, multiplied by the national mortality rate for NOF patients :</p> $\frac{\text{Observed number of in-hospital deaths for NOF patients}}{\text{Expected number of in-hospital deaths for NOF patients}} \times \text{national mortality rate for NOF patients}$
<i>Numerator:</i>	<p>Observed number of in-hospital deaths for NOF patients × national in-hospital mortality rate for NOF patients</p> <p>where</p> <p>Observed number of in-hospital deaths for NOF patients = the total number of separations (meeting the denominator criteria) where separation mode²⁵ = <i>died</i>.</p> <p>National mortality rate = national observed number of in-hospital deaths for NOF ÷ national observed number of separations for NOF</p>

²⁵ METeOR identifier: 270094, value: 8.

<i>Denominator:</i>	Expected number of in-hospital deaths for NOF patients = the sum of the estimated probabilities of death for all separations (meeting the denominator criteria), calculated using national risk-adjustment coefficients
<i>Denominator criteria:</i>	<p><u>Inclusions:</u></p> <ul style="list-style-type: none"> Principal diagnosis²⁶ of NOF (S72.0x, S72.10, S72.11) AND <ul style="list-style-type: none"> Procedure code²⁷ in (47519-00 [1479] , 47522-00 [1489], 47528-01 [1486], 47531-00 [1486], 49315-00 [1489]) AND External cause²⁸ code of <i>Falls</i> (W00.x – W19.x,) OR secondary diagnosis code²⁹ of <i>Tendency to fall not elsewhere classified</i> (R29.6). Age at date of admission is between 50 and 120, inclusive Length of stay (LOS, including leave days) is between 1 and 30 days, inclusive ($1 \leq \text{LOS} \leq 30$).
<i>Risk adjustment:</i>	<ul style="list-style-type: none"> Age in years at date of admission Sex Additional (comorbid) diagnoses³⁰ (5 dichotomous variables): <ul style="list-style-type: none"> Ischaemic heart disease (I20.x - I25.x (excluding I25.2)) Dysrhythmia (I46.x, I47.x, I49.x, I48.x) Acute lower respiratory tract infection (LRTI) and influenza (J09.x – J18.x, J20.x – J22.x) Kidney (renal) failure (N17.x, N19.x, N18.3, N18.4, N18.5, N18.9, R34.x) Heart failure (I50.x, I11.0, I13.0, I13.2).
<i>Disaggregation:</i>	Establishment-organisation identifier
<i>Presentation:</i>	<p>It is important to use graphics that focus on demonstrating a hospital's <i>outlier status</i> and the significance of the results, rather than ranking based on ratios without confidence intervals.</p> <p><i>Funnel plots</i> are the recommended presentation format for jurisdictions and private hospital ownership groups to identify outlier hospitals.</p> <p>Funnel plots should be generated using <i>national coefficients</i>, and presentation of hospitals within peer groups will improve comparability.</p> <p><i>Statistical process control charts</i> are recommended for hospitals to track their own results.</p>
<i>Comments:</i>	Risk adjustment should be performed using a logistic regression model. The response variable will be the probability of in-hospital mortality, and the predictor variables include those listed under the risk adjustment. Coefficients from national risk adjustment modelling are used to calculate the probability of in-hospital death for each case from a hospital. The sum of the probabilities of death will form the expected number of deaths.

²⁶ ICD-10-AM 9th edition.

²⁷ ACHI 9th edition.

²⁸ ICD-10-AM 9th edition.

²⁹ ICD-10-AM 9th edition.

³⁰ ICD-10-AM 9th edition.

Interpretation: A value higher than the national rate corresponds to a higher than expected mortality rate, while a value of lower than the national rate corresponds to a lower than expected mortality rate.

High or rising rates signal that a problem might exist and that further investigation is required.

Outcomes for management of hip fracture are sensitive to adherence to clinical best practice (Mak et al. 2010), and guidelines exist for management of hip fracture (SIGN 2010).

Bottle & Aylin (2006) used a cohort of 129,522 admissions for hip fracture in the UK, from which 18,508 deaths resulted. They found an association between delay in operation and risk of death in hospital.

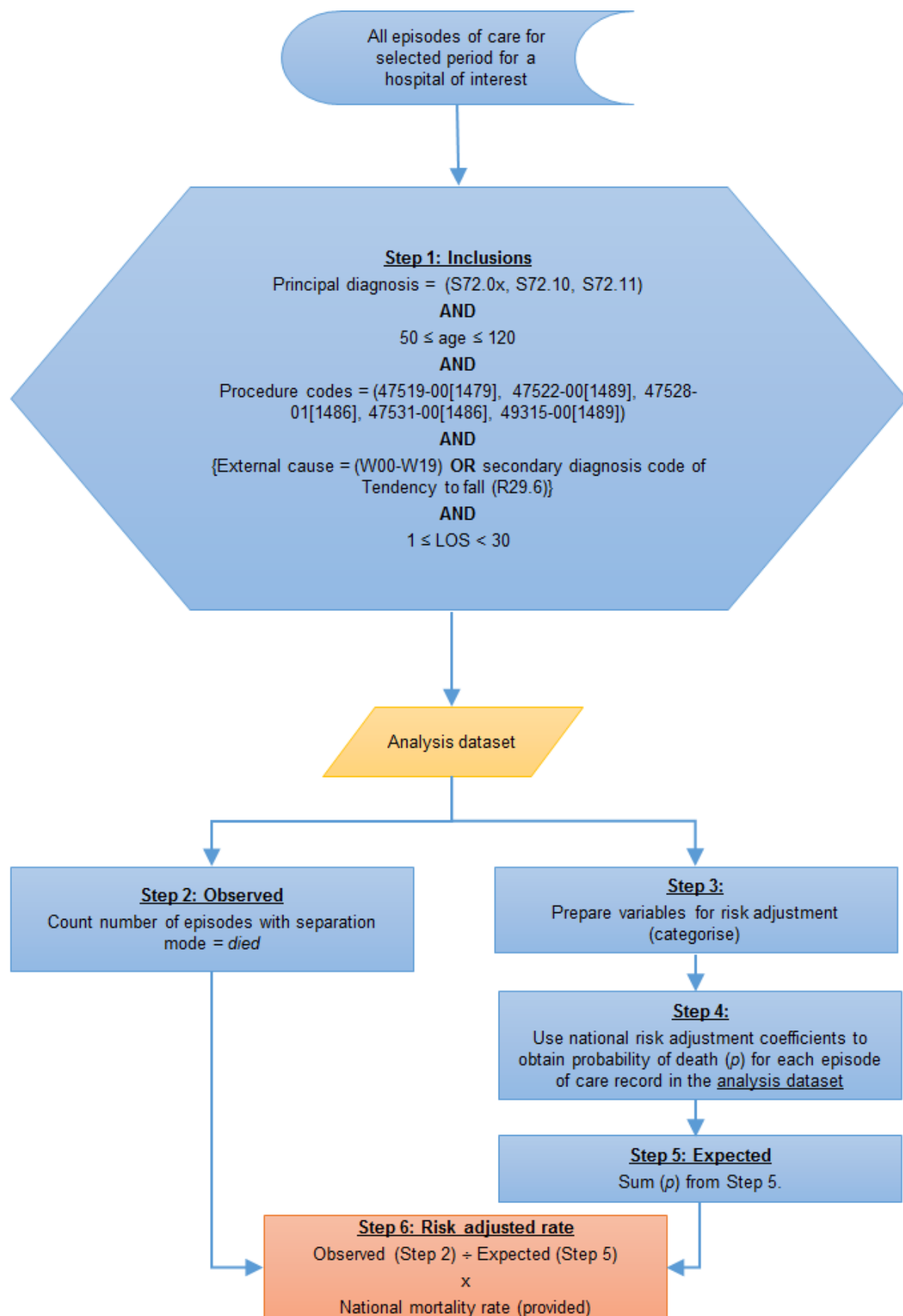
Other authors, however, attribute both the delay and the higher mortality to medical reasons (Vidán et al. 2011).

Reference documents: Agency for Healthcare Research and Quality
<<http://www.qualityindicators.ahrq.gov>>

Patient Safety and Quality Improvement Service, Queensland Health VLAD
Indicator Definitions:
http://www.health.qld.gov.au/psq/vlad/html/vlad_homepage.asp

Australian Commission on Safety and Quality in Health Care. Hip Fracture Care Clinical Care Standard.
Sydney: ACSQHC, 2016.

Flowchart CHBOI 3c



CHBOI 3d - In-hospital mortality of patients admitted for pneumonia

Identifying and definitional attributes

<i>Short name:</i>	CHBOI 3d – In-hospital mortality for pneumonia
<i>Description:</i>	In-hospital deaths of patients admitted for pneumonia
<i>Rationale:</i>	Hospital mortality indicators should be used as screening tools, rather than being assumed to be definitively diagnostic of poor quality and/or safety. This indicator is intended to signal that a problem may exist and that further detailed investigation is required. High outlier rates should be seen as a prompt to further investigation. Learnings may be applied from low outlier rates.
<i>Limitations:</i>	The inclusion or exclusion of Transfers appears to have little effect on this indicator

Collection and usage attributes

<i>Population group:</i>	Adults aged 18 – 89 years (inclusive) at admission
<i>Computation:</i>	<p>The ratio of observed (actual) number of in-hospital deaths to expected number of in-hospital deaths for pneumonia patients, multiplied by the national mortality rate for pneumonia patients :</p> $\frac{\text{Observed number of in-hospital deaths for pneumonia patients}}{\text{Expected number of in-hospital deaths for pneumonia patients}} \times \text{national mortality rate for pneum.}$
<i>Numerator:</i>	<p>Observed number of in-hospital deaths for pneumonia patients × national in-hospital mortality rate for pneumonia patients</p> <p>where</p> <p>Observed number of in-hospital deaths for pneumonia patients = the total number of separations (meeting the denominator criteria) where separation mode³¹ = <i>died</i>.</p> <p>National mortality rate = national observed number of in-hospital deaths for pneumonia ÷ national observed number of separations for pneumonia.</p>
<i>Denominator:</i>	<p>Expected number of in-hospital deaths for pneumonia patients,</p> <p>= the sum of the estimated probabilities of death for all separations (meeting the denominator criteria), calculated using national risk-adjustment coefficients.</p>

Inclusions:

- Principal diagnosis³² of pneumonia (J13.x – J16.x, J18.x)

³¹ METeOR identifier: 270094, value: 8.

³² ICD-10-AM 9th edition.

- Age at date of admission is between 18 and 89 years, inclusive
- Care type³³ = *acute care*
- Length of stay (LOS, including leave days) is between 1 and 30 days, inclusive [1 day ≤ LOS ≤ 30 days].

Risk adjustment:

- Age in years at date of admission
- Additional (comorbid) diagnoses³⁴ (12 dichotomous variables):
 - Dementia (F00.x* (G30.x †), F01.x, F02.x*, F03.x)
 - Alzheimer's disease and other dementia (G30.x, G31.0, G31.1)
 - Hypotension (I95.x)
 - Shock (R57.x, A48.3)
 - Kidney (renal) failure (N17.x, N19.x, N18.3, N18.4, N18.5, N18.9, R34.x)
 - Other chronic obstructive pulmonary disease (J43.x, J44.x, J47.x)
 - Heart failure (I50.x, I11.0, I13.0, I13.2)
 - Dysrhythmia (I46.x, I47.x, I48.x, I49.x)
 - Malignancy (C00.x -C96.x, except C44.x)
 - Liver disease (K70.x – K77.x)
 - Cerebrovascular disease (I60.x – I69.x)
 - Parkinson's disease (G20.x).

Note on symbols:

Dagger (†) (aetiology) – this symbol immediately following a code denotes that the code describes the underlying cause or aetiology of a disease. It is known as a 'dagger' code and is usually paired with an 'asterisk' code.

Asterisk (*) (manifestation) – this symbol immediately following a code denotes that the code describes the manifestation of the disease. It is known as an 'asterisk' code, and must always be paired and sequenced after the 'aetiology' code.

Disaggregation: Establishment-organisation identifier

Presentation: It is important to use graphics that focus on demonstrating a hospital's *outlier status* and the significance of the results, rather than ranking based on ratios without confidence intervals.

Funnel plots are the recommended presentation format for jurisdictions and private hospital ownership groups to identify outlier hospitals.

Funnel plots should be generated using *national coefficients*, and presentation of hospitals within peer groups will improve comparability.

Statistical process control charts are recommended for hospitals to track their own results.

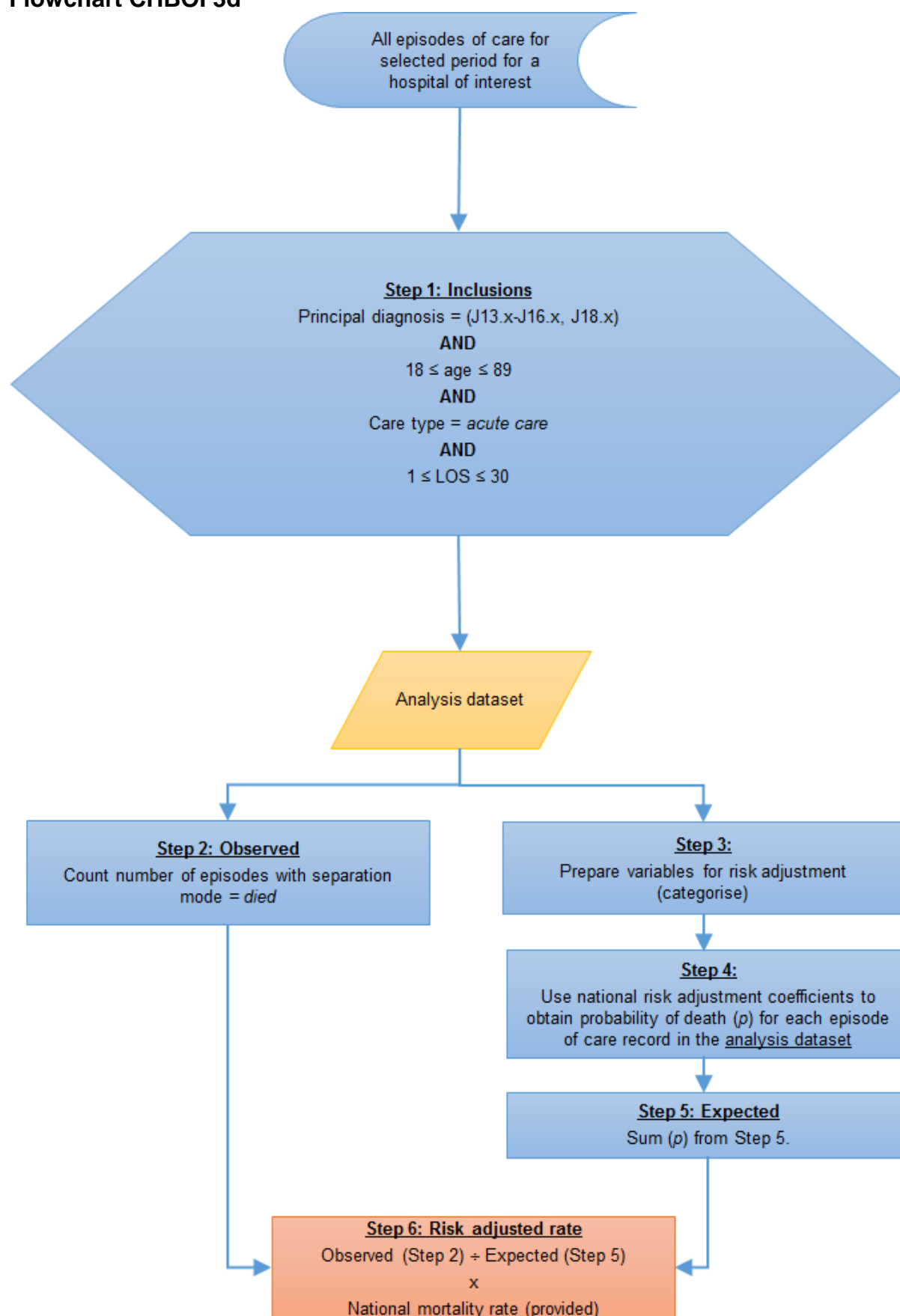
Comments: Risk adjustment should be performed using a logistic regression model. The response variable will be the probability of in-hospital mortality, and the predictor variables include those listed under the risk adjustment. Coefficients from national risk adjustment modelling are used to calculate the probability of in-hospital death for each case from a hospital. The sum of the probabilities of death will form the expected number of deaths.

³³ METeOR identifier: 270174, value: 1.0.

³⁴ ICD-10-AM 9th edition.

<i>Interpretation:</i>	<p>A value higher than the national rate corresponds to a higher than expected mortality rate, while a value of lower than the national rate corresponds to a lower than expected mortality rate.</p> <p>High or rising rates signal that a problem might exist and that further investigation is required.</p> <p>Investigations should consider a range of possible explanations including: differences from the national patient population that are not addressed by the risk adjustment model; structural or resource issues (e.g. staff shortages, ward closures, etc.); changes in treatment protocols; and professional practice (i.e. individual clinical staff actions) (Mohammed et al 2004).</p>
<i>Reference documents:</i>	<p>Agency for Healthcare Research and Quality: <http://www.qualityindicators.ahrq.gov></p> <p>Patient Safety and Quality Improvement Service, Queensland Health VLAD Indicator Definitions: <http://www.health.qld.gov.au/psq/vlad/html/vlad_homepage.asp></p>

Flowchart CHBOI 3d



SECTION C - Readmission measures

Jurisdictions have varying capacity to generate true hospital readmission rates, and the private hospital sector also have challenges in generating true or linked readmission rates. This issue and the limitations of monitoring 'same-hospital' readmission rates are discussed below.

Hospitals are encouraged to use statistical process control charts to identify significant variance in readmission patterns. Queensland pioneered the use of VLADs (variable life adjusted displays) in Australia (Centre for Healthcare Improvement 2012). Coory et al. (2008) wrote:

If the aim of clinical indicators based on administrative data is to provide a starting point for learning, then control charting provides potentially more useful information than the more commonly used cross-sectional analyses. Control charts provide an understandable and up-to-date overview that allows early detection of runs of good or bad outcomes that can help hospitals identify areas for more in-depth self-monitoring and learning. (p. 31)

Note that except for CHBOI 4d in paediatric hospitals, CHBOI 4a to 4c will not be meaningful, and therefore should not be applied to specialist paediatric and women's hospitals. This is because the conditions/procedures that are the subject of these measures will not be managed in these hospitals.

Context – Same-hospital readmissions, true readmission rates, and ‘unplanned-ness’

The main issues raised when looking at the design and findings of this indicator are:

- A. *The difference between readmission to the same hospital, and true readmission rates, also known as ‘any-hospital’ readmissions.*
- B. *The difficulty in identifying admissions which are truly unplanned and related.*
- C. *The role of primary care or extramural activities in readmissions.*

Issue (A) is about data linkage capacity, and its dependencies, permissions and timeliness of data supply. States and territories have different maturities in regard to data linkage capacity, but true readmission calculation will require cross-border and public-private linkages.

The Commission recommends:

- the generation and analysis of true readmission rates where possible
- that partially-linked analyses (e.g. any public hospital) are superior to unlinked analyses
- monitoring and review of same-hospital readmission rates is beneficial for individual hospitals; significant local variance provides a strong signal for safety analyses and quality improvement.

B. This specification uses codes and criteria intended to provide as detailed a specification as possible to identify the cohort of readmitted patients where the cause is related to the index admission and is unplanned. It is acknowledged that there are some limitations in the completeness of clinical documentation and in coding depth and capacity. Nonetheless, high rates are a signal for investigation.

C. Rates of readmission will be influenced by hospital quality of care, including discharge planning. In addition, access to primary care, quality of primary care and clinical communication between acute and primary care providers will influence readmission rates.

Indicator reference periods

While some hospitals may have the capacity for real time reporting, or quarterly reporting, the minimum recommended reference period for the denominator for readmission indicators (CHBOI 4a to CHBOI 4d) is one full year. For this to apply, the reference period needs to:

- Be complete prior to the end of the year to ensure all readmissions within the proposed readmission interval can be captured within the year (also considering the 95th percentile for length of stay (LOS) of readmissions).
- Commence a full year prior to the end of the reference period.

To ensure all readmissions are captured for the denominator separations, the reference period for the numerator would commence from the start date of the denominator reference period and conclude on 30 June (Figure 1).

For example, for unplanned/unexpected hospital readmissions of patients following discharge for management of knee replacement, for reporting of data relating to the 2016-17 financial year:

- the reference period for the denominator would be 14 April 2017 to 13 April 2017 (i.e. 78 days prior to 30 June to account for the readmission interval of 60 days and 95th percentile readmissions length of stay of 18 days)
- the reference period for the numerator would be 14 April 2017 to 30 June 2017.
- This allows readmissions within 60 days of separation for the index admission (considering the 95th percentile for length of stay of readmissions) to be reported. This is illustrated in Figure 1.

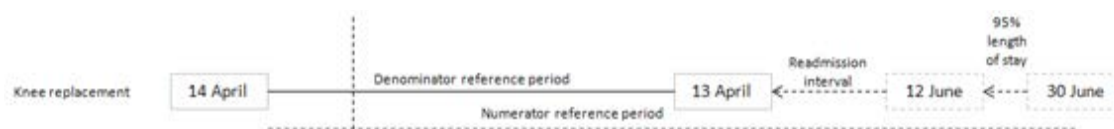


Figure 1 – Illustration of the cut-off date and reference period for Knee replacement readmission indicator

For quarterly reporting, the quarterly periods should be defined as a period that is shifted from the traditional quarter definitions based on the reference periods. These would be as follows:

CHBOI	Quarter 1	Quarter 2	Quarter 3	Quarter 4
1. Acute myocardial infarction	16 May to 15 Aug	16 Aug to 15 Nov	16 Nov to 15 Feb	16 Feb to 15 May
2. Knee replacement	14 Apr to 13 Jul	14 Jul to 13 Oct	14 Oct to 13 Jan	14 Jan to 13 Apr
3. Hip replacement	19 Mar to 18 Jun	19 Jun to 18 Sep	19 Sep to 18 Dec	19 Dec to 18 Mar
4. Tonsillectomy & adenoidectomy	13 Jun to 12 Sep	13 Sep to 12 Dec	13 Dec to 12 Mar	13 Mar to 12 Jun

CHBOI 4a - Unplanned/unexpected same hospital readmissions of patients discharged following management of acute myocardial infarction (AMI)

Identifying and definitional attributes

<i>Short name:</i>	CHBOI 4a – Unplanned /unexpected same hospital readmissions for management of AMI
<i>Description:</i>	<p>Unplanned and unexpected readmissions to the same-hospital following admission for acute myocardial infarction (AMI).</p> <p>Unplanned /unexpected readmission refers to an unexpected admission for “<i>further treatment of the same condition</i>”, “<i>treatment of a condition related to one for which the patient was previously hospitalised</i>”, or “<i>a complication of the condition for which the patient was previously hospitalised</i>” (AIHW 2009a, p. 200).</p>
<i>Rationale:</i>	Hospital-based outcome indicators for unplanned /unexpected readmissions are focused on improving safety and quality of patient care. High rates should be seen as a prompt to further investigation. Learnings may be applied from low rates.
<i>Limitations:</i>	

Collection and usage attributes

<i>Population group:</i>	All ages
<i>Computation:</i>	<p>$100 \times (\text{Numerator} \div \text{Denominator})$</p> <p>For a separation to be considered a readmission, the separation must follow an index episode of care (for the same individual) that occurred during the denominator readmission interval.</p> <p>Only the first readmission occurring within the specified readmission interval is counted.</p>
<i>Numerator:</i>	Number of separations for hospitals which meet all of the criteria under ‘Numerator criteria’ below.
<i>Numerator criteria</i>	<p><u>Inclusions:</u></p> <ul style="list-style-type: none">• The separation is a readmission to the same hospital following an index episode of care for AMI that met all criteria in the <i>denominator</i> field.• The principal diagnosis (PDx) code for the episode of care is one of the ICD-10-AM diagnosis codes listed in Appendix 4.• Care type³⁵ = <i>acute care</i>.• Urgency status³⁶ = <i>emergency</i>.• The readmission interval is 30 days. However, the intervals are shorter when the

³⁵ METeOR identifier: 270174, value: 1.0.

³⁶ METeOR identifier: 269986, value: 1.

patient is readmitted with selected diagnoses. These are indicated in Appendix 4.

- The readmission interval is measured from the separation date of the index episode of care.
- To determine if a subsequent episode of care is a readmission, the readmission interval is applied from the date of separation for the index episode of care to the date of admission for the subsequent separation.
- A readmission occurs any time from the start of the reference period for the index episode of care (see Section C – Indicator reference period), up to and including 30 June of the reporting year.

Denominator: Total separations for management of AMI in a specified reference period meeting the denominator criteria.

Denominator criteria: Inclusions:

- Principal diagnosis of AMI, represented by any one of the following codes³⁷:

Diagnosis code	Description
I21.0	Acute transmural myocardial infarction of anterior wall
I21.1	Acute transmural myocardial infarction of inferior wall
I21.2	Acute transmural myocardial infarction of other sites
I21.3	Acute transmural myocardial infarction of unspecified site
I21.4	Acute subendocardial myocardial infarction
I21.9	Acute myocardial infarction, unspecified

- Care type³⁸ = *acute care*
- Urgency status³⁹ = *emergency*.
- The denominator can include multiple index episodes of care for the same individual within the reference period, where a person has more than one separation that satisfies the denominator criteria. Multiple index episodes of care should only be counted if the date of admission for the second or subsequent episodes occurs at least 30 days after the date of separation from the first (or previous) index episode of care.

Exclusions

- Separation mode⁴⁰ = *died in hospital*.

Risk adjustment: No risk adjustment

Disaggregation: Establishment-organisation identifier

Comments: See section 'Indicator reference periods' for time periods for identification of index

³⁷ ICD-10-AM 9th edition.

³⁸ METeOR identifier: 270174, value: 1.0.

³⁹ METeOR identifier: 269986, value: 1.

⁴⁰ METeOR identifier: 270094, value: 8.

episodes and readmission episodes.

Interpretation: High or rising values signal that a problem might exist and that further investigation is required.

Investigations should consider a range of possible explanations including: differences from the national patient population; structural or resource issues (e.g. staff shortages, ward closures, etc.); changes in treatment protocols; and professional practice (i.e. individual clinical staff actions) (Mohammed et al 2004).

References

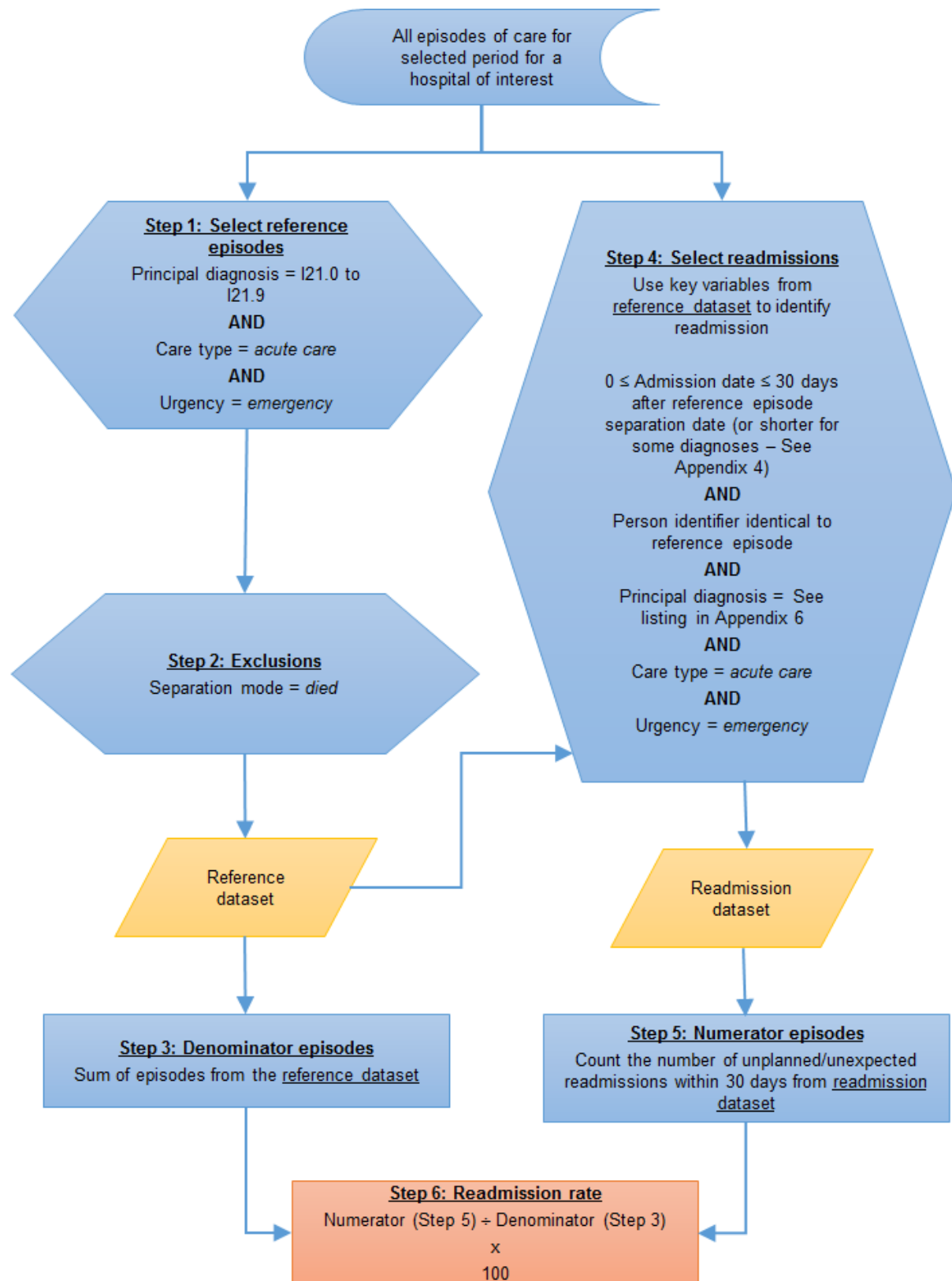
Reference documents: Patient Safety and Quality Improvement Service, Queensland Health VLAD Indicator Definitions:

http://www.health.qld.gov.au/psq/vlad/html/vlad_homepage.asp

Australian Institute of Health and Welfare 2009, *Towards national indicators of safety and quality in health care*, AIHW cat. No. HSE 75, AIHW, Canberra, <<http://www.aihw.gov.au/publication-detail/?id=6442468285>>.

Australian Institute of Health and Welfare 2012, *Clinical expert review workshops held between November 2011 and February 2012*.

Flowchart CHBOI 4a



CHBOI 4b - Unplanned/unexpected same hospital readmissions of patients discharged following management of knee replacement

Identifying and definitional attributes

<i>Short name:</i>	CHBOI 4b— Unplanned/unexpected same hospital readmissions for management of knee replacement
<i>Description:</i>	<p>Unplanned/unexpected readmissions are those readmissions where the principal diagnosis and readmission interval indicate that the readmission may be related to the care provided by the hospital during the patient's episode of care for the management of a knee replacement.</p> <p>Unplanned/unexpected readmission refers to an unplanned/unexpected admission for "<i>further treatment of the same condition</i>", "<i>treatment of a condition related to one for which the patient was previously hospitalised</i>", or "<i>a complication of the condition for which the patient was previously hospitalised</i>" (AIHW 2009a, p. 200).</p>
<i>Rationale:</i>	<p>Hospital-based outcome indicators for unplanned/unexpected readmissions are focused on improving safety and quality of patient care.</p> <p>High values should be seen as a prompt to further investigation. Learnings may be applied from low values.</p>
<i>Limitations:</i>	

Collection and usage attributes

<i>Population group:</i>	All ages
<i>Computation:</i>	<p>$100 \times (\text{Numerator} \div \text{Denominator})$</p> <p>For a separation to be considered a readmission, the separation must follow an index episode of care for the same individual that occurred during the relevant denominator reference period.</p> <p>Only the first readmission occurring within the specified readmission interval is counted in the numerator.</p>
<i>Numerator:</i>	Number of separations for hospitals which meet all of the criteria under 'Numerator criteria' below.
<i>Numerator criteria</i>	<p><u>Inclusions:</u></p> <ul style="list-style-type: none">• The episode of care is a readmission to the same hospital following an episode of care in which a knee replacement was performed (see procedure codes in denominator field) AND the index episode of care met all criteria in the <i>denominator</i> field.• Principal diagnosis⁴¹ - See Appendix 5.• The readmission interval is 60 days. However, the intervals are shorter when the

⁴¹ ICD-10-AM 9th edition.

patient is readmitted with selected diagnoses. These are indicated in Appendix 5.

- The readmission interval is measured from the separation date of the index episode of care.
- To determine if a subsequent episode of care is a readmission, the readmission interval is applied from the date of separation for the index episode of care to the date of admission for the subsequent separation.
- Care type⁴² = *all care type*.
- Reporting period = A readmission can occur any time from the start of the reference period (see Section C – Indicator reference period), up to and including 30 June of the reporting year. The date of admission for a readmission is anytime from the start of the reference period to the 30 June of the reporting year and the date of separation for a readmission is no later than 30 June of the reporting year.

Exclusions

- Episodes meeting the inclusion criteria but that result from a ‘type change’ from the index episode should not be counted as a readmission. These are episodes where the date of admission⁴³ of the numerator episode is the same as the date of separation⁴⁴ of the denominator (index) episode AND the admission mode⁴⁵ of the numerator episode is *Statistical admission - episode type change*.

Denominator: Total separations for management of knee replacement in a specified reference period (meeting all of the denominator criteria).

Denominator criteria: Inclusions:

- Any procedure field⁴⁶ with one of the following codes:

Procedure code	Description
49518-00 [1518]	Total arthroplasty of knee, unilateral
49519-00 [1518]	Total arthroplasty of knee, bilateral
49521-00 [1519]	Total arthroplasty of knee with bone graft to femur, unilateral
49521-01 [1519]	Total arthroplasty of knee with bone graft to femur, bilateral
49521-02 [1519]	Total arthroplasty of knee with bone graft to tibia, unilateral
49521-03 [1519]	Total arthroplasty of knee with bone graft to tibia, bilateral
49524-00 [1519]	Total arthroplasty of knee with bone graft to femur and tibia, unilateral
49524-01 [1519]	Total arthroplasty of knee with bone graft to femur and tibia, bilateral

- Care type⁴⁷ = *acute care*.
- All ages.

⁴² METeOR identifier: 270174, values: all.

⁴³ METeOR identifier: 269967.

⁴⁴ METeOR identifier: 270025.

⁴⁵ METeOR identifier: 269976, value: 2.

⁴⁶ ACHI 9th edition.

⁴⁷ METeOR identifier: 270174, values: 1.0.

- Length of stay – include all lengths of stay.

Exclusions

- Separation mode⁴⁸ = *died in hospital*.

Disaggregation: Establishment-organisation identifier

Comments: The denominator and numerator do not include principal and additional diagnoses codes for revisions of knee replacements.

See section 'Indicator reference periods' for time periods for identification of index episodes and readmission episodes.

Interpretation: High or rising values signal that a problem might exist and that further investigation is required.

Investigations should consider a range of possible explanations including: differences from the national patient population; structural or resource issues (e.g. staff shortages, ward closures, etc.); changes in treatment protocols; and professional practice (i.e. individual clinical staff actions) (Mohammed et al. 2004).

References

Reference documents: Patient Safety and Quality Improvement Service, Queensland Health VLAD Indicator Definitions:

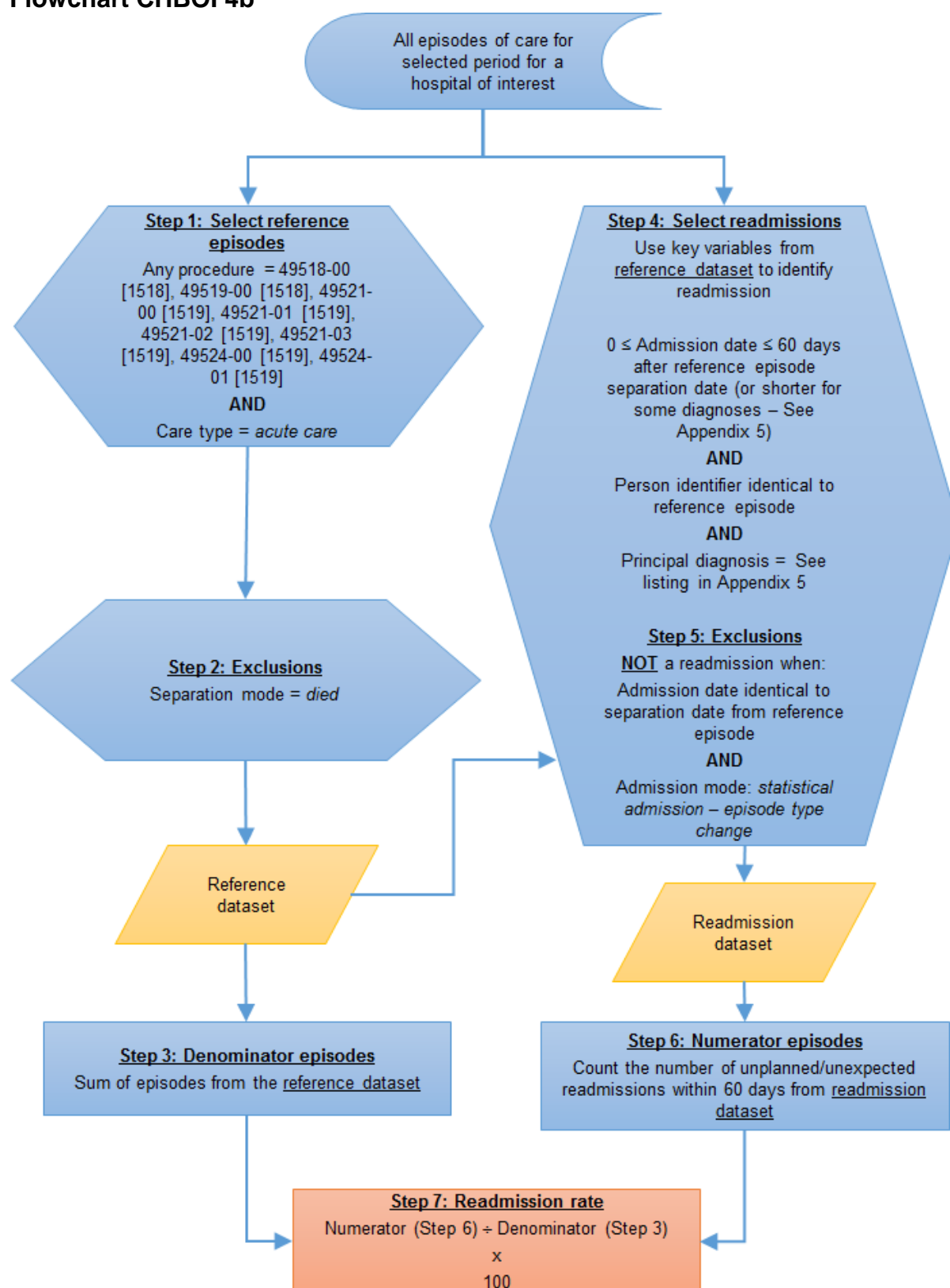
http://www.health.qld.gov.au/psq/vlad/html/vlad_homepage.asp

Australian Institute of Health and Welfare 2009, *Towards national indicators of safety and quality in health care*, AIHW cat. No. HSE 75, AIHW, Canberra, <<http://www.aihw.gov.au/publication-detail/?id=6442468285>>.

Australian Institute of Health and Welfare 2012, *Clinical expert review workshops held between November 2011 and February 2012*.

⁴⁸ METeOR identifier: 270094, value: 8.

Flowchart CHBOI 4b



CHBOI 4c - Unplanned/unexpected same hospital readmissions of patients discharged following management of hip replacement

Identifying and definitional attributes

<i>Short name:</i>	CHBOI 4c – Unplanned/unexpected same hospital readmissions for management of hip replacement
<i>Description:</i>	<p>Unplanned/unexpected readmissions are those readmissions where the principal diagnosis and readmission interval indicate that the readmission may be related to the care provided by the hospital during the patient's episode of care for the management of a hip replacement.</p> <p>Unplanned/unexpected readmission refers to an unexpected admission for "<i>further treatment of the same condition</i>", "<i>treatment of a condition related to one for which the patient was previously hospitalised</i>", or "<i>a complication of the condition for which the patient was previously hospitalised</i>" (AIHW 2009a, p. 200).</p>
<i>Rationale:</i>	<p>Hospital-based outcome indicators for unplanned/unexpected readmissions are focused on improving safety and quality of patient care.</p> <p>High values should be seen as a prompt to further investigation. Learnings may be applied from low values.</p>
<i>Limitations:</i>	

Collection and usage attributes

<i>Population group:</i>	All ages
<i>Computation:</i>	<p>$100 \times (\text{Numerator} \div \text{Denominator})$</p> <p>For a separation to be considered a readmission, the separation must follow an index episode of care for the same individual that occurred during the relevant denominator reference period.</p> <p>Only the first readmission occurring within the specified readmission interval is counted in the numerator.</p>
<i>Numerator:</i>	Number of separations for hospitals which meet all of the criteria under 'Numerator criteria' below.
<i>Numerator criteria</i>	<p><u>Inclusions:</u></p> <ul style="list-style-type: none">• The episode of care is a readmission to the same hospital following an episode of care in which a hip replacement was performed (see procedure codes in denominator field) AND the index episode of care met all criteria in the denominator field.• Principal diagnoses⁴⁹ - See Appendix 5.• The readmission interval is 60 days. However, the intervals are shorter when the

⁴⁹ ICD-10-AM 9th edition.

patient is readmitted with selected diagnoses. These are indicated in Appendix 5.

- The readmission interval is measured from the separation date of the index episode of care.
- To determine if a subsequent episode of care is a readmission, the readmission interval is applied from the date of separation for the index episode of care to the date of admission for the subsequent separation.
- Care type⁵⁰ = *all care types*.
- Reporting period = A readmission can occur any time from the start of the reference period (see 'Section C – Indicator reference period'), up to and including 30 June of the reporting year. The date of admission for a readmission is any time from the start of the reference period to the 30 June of the reporting year and the date of separation for a readmission is no later than 30 June of the reporting year.

Exclusions

- Episodes meeting the inclusion criteria but that result from a 'type change' from the index episode should not be counted as a readmission. These are episodes where the date of admission⁵¹ of the numerator episode is the same as the date of separation⁵² of the denominator (index) episode AND the admission mode⁵³ of the numerator episode is *Statistical admission - episode type change*.

Denominator: Total separations for management of knee replacement in a specified reference period (meeting the denominator criteria).

Denominator criteria: Inclusions:

- Any procedure⁵⁴ field with one of the following codes:

Procedure code	Description
49318-00 [1489]	Total arthroplasty of hip, unilateral
49319-00 [1489]	Total arthroplasty of hip, bilateral

- Care type⁵⁵ = *acute care*.
- All ages.
- Length of stay = include all lengths of stay.

Exclusions

- Separation mode⁵⁶ = *died in hospital*.

⁵⁰ METeOR identifier: 270174, values: all.

⁵¹ METeOR identifier: 269967.

⁵² METeOR identifier: 270025.

⁵³ METeOR identifier: 269976, value: 2.

⁵⁴ ACHI 9th edition.

⁵⁵ METeOR identifier: 270174, values: 1.0.

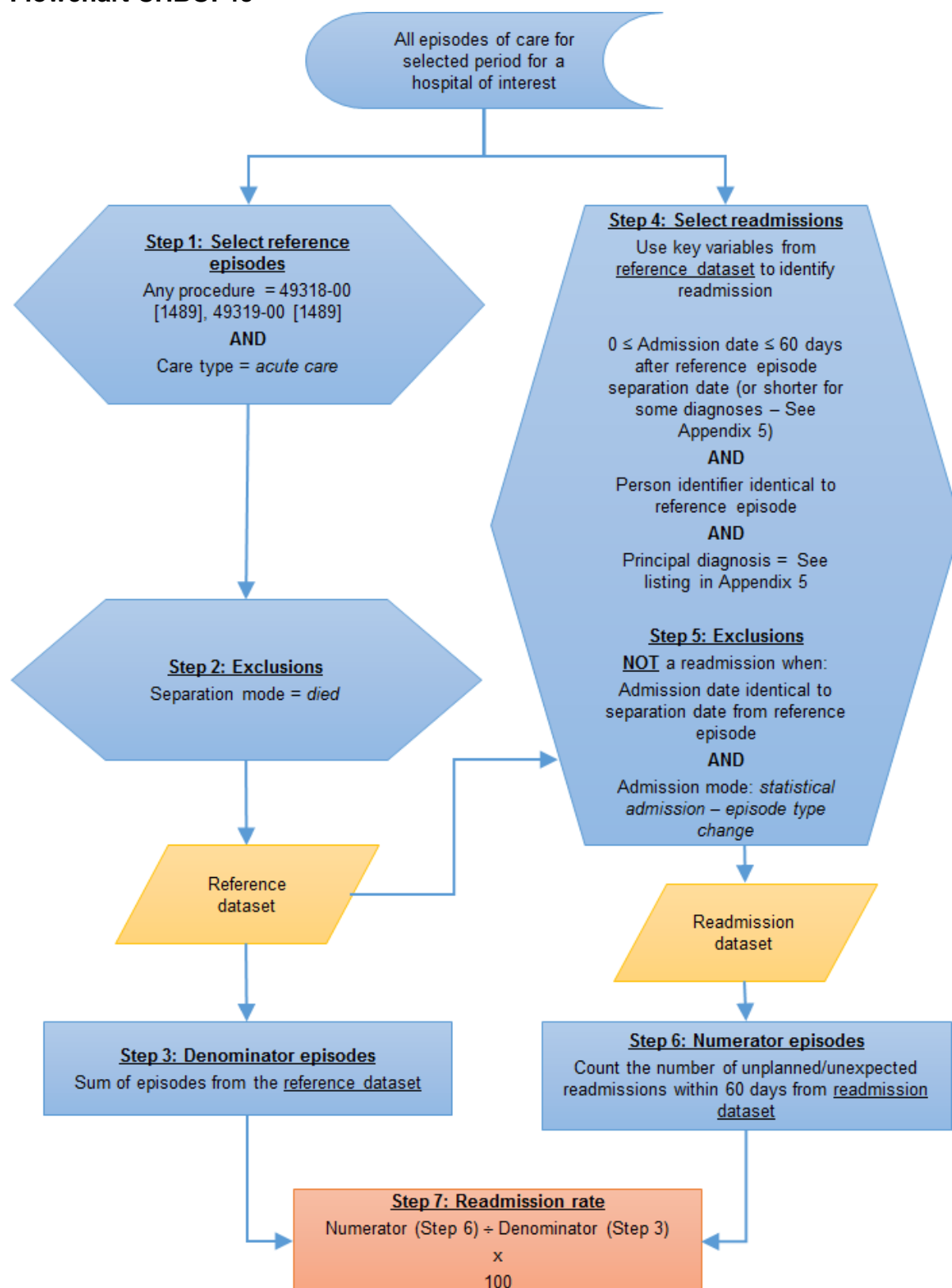
⁵⁶ METeOR identifier: 270094, value: 8.

- Disaggregation:* Establishment-organisation identifier
- Comments:* The denominator and numerator do not include principal and additional diagnoses codes for revisions of hip replacements.
- See section 'Indicator reference periods' for time periods for identification of index episodes and readmission episodes.
- Interpretation:* High or rising values signal that a problem might exist and that further investigation is required.
- Investigations should consider a range of possible explanations including: differences from the national patient population; structural or resource issues (e.g. staff shortages, ward closures, etc.); changes in treatment protocols; and professional practice (i.e. individual clinical staff actions) (Mohammed et al. 2004).

References

- Reference documents:* Patient Safety and Quality Improvement Service, Queensland Health VLAD Indicator Definitions:
http://www.health.qld.gov.au/psq/vlad/html/vlad_homepage.asp
- Australian Institute of Health and Welfare 2009, *Towards national indicators of safety and quality in health care*, AIHW cat. No. HSE 75, AIHW, Canberra,
 <<http://www.aihw.gov.au/publication-detail/?id=6442468285>>.
- Australian Institute of Health and Welfare 2012, *Clinical expert review workshops held between November 2011 and February 2012*.

Flowchart CHBOI 4c



CHBOI 4d - Unplanned/unexpected same hospital readmissions of patients discharged following management of paediatric tonsillectomy and adenoidectomy

Identifying and definitional attributes

<i>Short name:</i>	CHBOI 4d – Unplanned/unexpected same hospital readmissions for management of paediatric tonsillectomy and adenoidectomy
<i>Description:</i>	<p>Unplanned/unexpected readmissions are those readmissions where the principal diagnosis and readmission interval indicate that the readmission may be related to the care provided by the hospital during the patient's episode of care for the management of paediatric tonsillectomy and adenoidectomy.</p> <p>Unplanned/unexpected readmission refers to an unexpected admission for “<i>further treatment of the same condition</i>”, “<i>treatment of a condition related to one for which the patient was previously hospitalised</i>”, or “<i>a complication of the condition for which the patient was previously hospitalised</i>” (AIHW 2009a, p. 200).</p>
<i>Rationale:</i>	<p>Hospital-based outcome indicators for unplanned/unexpected readmissions are focused on improving safety and quality of patient care.</p> <p>High values should be seen as a prompt to further investigation. Learnings may be applied from low values.</p>
<i>Limitations:</i>	

Collection and usage attributes

<i>Population group:</i>	Children aged 0– 14 years (inclusive) at admission
<i>Computation:</i>	<p>$100 \times (\text{Numerator} \div \text{Denominator})$</p> <p>For a separation to be considered a readmission, the separation must follow an index episode of care for the same individual that occurred during the relevant denominator reference period.</p> <p>Only the first readmission occurring within the specified readmission interval is counted in the numerator.</p>
<i>Numerator:</i>	Number of separations for hospitals which meet all of the criteria under ‘Numerator criteria’ below.
<i>Numerator criteria</i>	<p><u>Inclusions:</u></p> <ul style="list-style-type: none">• The episode of care is a readmission to the same hospital following an episode of care in which a paediatric tonsillectomy and adenoidectomy was performed (see procedure codes in denominator field) AND the index episode of care met all criteria in the denominator field.

- Principal diagnosis⁵⁷ - See Appendix 5.
- Care type⁵⁸ = *all care types*.
- The readmission interval is 15 days. However, the intervals are shorter when the patient is readmitted with selected diagnoses. These are indicated in Appendix 5.
- The readmission interval is measured from the separation date of the index episode of care.
- To determine if a subsequent episode of care is a readmission, the readmission interval is applied from the date of separation for the index episode of care to the date of admission for the subsequent separation.

Exclusions

- Episodes meeting the inclusion criteria but that result from a 'type change' from the index episode should **not** be counted as a readmission. These are episodes where the date of admission⁵⁹ of the numerator episode is the same as the date of separation⁶⁰ of the denominator (index) episode AND the admission mode⁶¹ of the numerator episode is *Statistical admission - episode type change*.

Denominator: Total separations for management of paediatric tonsillectomy and adenoidectomy in a specified reference period (meeting the denominator criteria)

Denominator criteria: Inclusions:

- Any procedure⁶² field with one of the following codes:

Procedure code	Description
41789-00 [412]	Tonsillectomy without adenoidectomy
41789-01 [412]	Tonsillectomy with adenoidectomy
41801-00 [412]	Adenoidectomy without tonsillectomy

- Age at date of admission is between 0 and 14 years, inclusive.
- Care type⁶³ = *acute care*.
- Length of stay = include all lengths of stay.

Exclusions

- Separation mode⁶⁴ = *died in hospital*.

Disaggregation: Establishment-organisation identifier

Comments: See section 'Indicator reference periods' for time periods for identification of index episodes and readmission episodes.

⁵⁷ ICD-10-AM 9th edition

⁵⁸ METeOR identifier: 270174, values: all.

⁵⁹ METeOR identifier: 269967.

⁶⁰ METeOR identifier: 270025.

⁶¹ METeOR identifier: 269976, value: 2.

⁶² ACHI 9th edition

⁶³ METeOR identifier: 270174, values: 1.0.

⁶⁴ METeOR identifier: 270094, value: 8.

Interpretation: Investigations should consider a range of possible explanations including: differences from the national patient population; structural or resource issues (e.g. staff shortages, ward closures, etc.); changes in treatment protocols; and professional practice (i.e. individual clinical staff actions) (Mohammed et al. 2004).

References

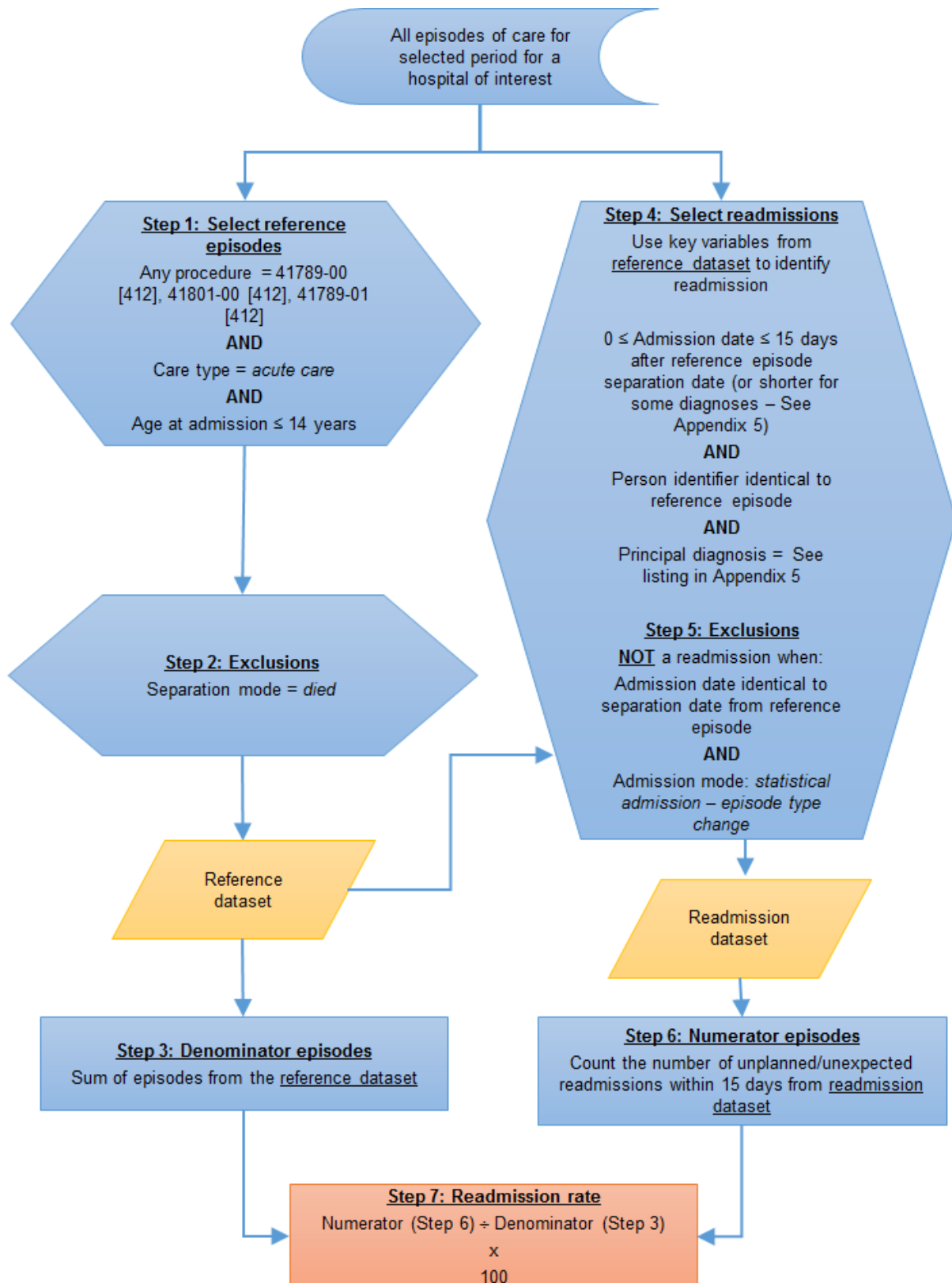
Reference documents: Patient Safety and Quality Improvement Service, Queensland Health VLAD Indicator Definitions:

http://www.health.qld.gov.au/psq/vlad/html/vlad_homepage.asp

Australian Institute of Health and Welfare 2009, *Towards national indicators of safety and quality in health care*, AIHW cat. No. HSE 75, AIHW, Canberra,
<<http://www.aihw.gov.au/publication-detail/?id=6442468285>>..

Australian Institute of Health and Welfare 2012, *Clinical expert review workshops held between November 2011 and February 2012*.

Flowchart CHBOI 4d



Appendix 1: Categories for principal diagnoses accounting for 80% of in-hospital deaths (CHBOI 1)

Principal diagnosis (ICD10-AM 9 th Ed)		Decile
A09	Other gastroenteritis and colitis of infectious and unspecified origin	0
A40	Streptococcal sepsis	8
A41	Other sepsis	8
C15	Malignant neoplasm of oesophagus	6
C16	Malignant neoplasm of stomach	6
C18	Malignant neoplasm of colon	4
C19	Malignant neoplasm of rectosigmoid junction	5
C20	Malignant neoplasm of rectum	3
C22	Malignant neoplasm of liver and intrahepatic bile ducts	7
C25	Malignant neoplasm of pancreas	8
C34	Malignant neoplasm of bronchus and lung	8
C45	Mesothelioma	8
C50	Malignant neoplasm of breast	2
C61	Malignant neoplasm of prostate	1
C67	Malignant neoplasm of bladder	2
C71	Malignant neoplasm of brain	5
C78	Secondary malignant neoplasm of respiratory and digestive organs	7
C79	Secondary malignant neoplasm of other and unspecified sites	7
C83	Non-follicular lymphoma	4
C90	Multiple myeloma and malignant plasma cell neoplasms	3
C92	Myeloid leukaemia	5
D64	Other anaemias	0
D70	Agranulocytosis	2
E11	Type 2 diabetes mellitus	2
E87	Other disorders of fluid, electrolyte and acid-base balance	3
F05	Delirium, not induced by alcohol and other psychoactive substances	4
G93	Other disorders of brain	6
I21	Acute myocardial infarction	5
I25	Chronic ischaemic heart disease	0
I26	Pulmonary embolism	3
I35	Nonrheumatic aortic valve disorders	3
I46	Cardiac arrest	9
I48	Atrial fibrillation and flutter	0
I49	Other cardiac arrhythmias	4
I50	Heart failure	6
I60	Subarachnoid haemorrhage	9
I61	Intracerebral haemorrhage	9
I62	Other nontraumatic intracranial haemorrhage	9
I63	Cerebral infarction	7
I64	Stroke, not specified as haemorrhage or infarction	7
I70	Atherosclerosis	1
I71	Aortic aneurysm and dissection	7

J10	Influenza due to other identified influenza virus	3
J15	Bacterial pneumonia, not elsewhere classified	5
J18	Pneumonia, organism unspecified	6
J22	Unspecified acute lower respiratory infection	2
J44	Other chronic obstructive pulmonary disease	4
J69	Pneumonitis due to solids and liquids	9
J84	Other interstitial pulmonary diseases	8
J90	Pleural effusion, not elsewhere classified	4
J96	Respiratory failure, not elsewhere classified	9
K26	Duodenal ulcer	5
K55	Vascular disorders of intestine	8
K56	Paralytic ileus and intestinal obstruction without hernia	4
K57	Diverticular disease of intestine	0
K63	Other diseases of intestine	0
K70	Alcoholic liver disease	7
K72	Hepatic failure, not elsewhere classified	9
K83	Other diseases of biliary tract	3
K85	Acute pancreatitis	1
K92	Other diseases of digestive system	1
L03	Cellulitis	1
N17	Acute kidney failure	6
N18	Chronic kidney disease	4
N39	Other disorders of urinary system	1
R55	Syncope and collapse	0
R57	Shock, not elsewhere classified	9
S06	Intracranial injury	6
S22	Fracture of rib(s), sternum and thoracic spine	2
S32	Fracture of lumbar spine and pelvis	2
S72	Fracture of femur	5
T82	Complications of cardiac and vascular prosthetic devices, implants and grafts	1

Principal diagnosis (ICD10-AM 10 th Ed)		Decile
A09	Oth gastroenteritis colitis infect & unsp	0
A40	Streptococcal sepsis	8
A41	Other sepsis	8
C15	Malignant neoplasm of oesophagus	6
C16	Malignant neoplasm of stomach	6
C18	Malignant neoplasm of colon	4
C19	Malignant neoplasm rectosigmoid junction	5
C20	Malignant neoplasm of rectum	3
C22	Malg neoplasm liver intrahep bile ducts	7
C25	Malignant neoplasm of pancreas	8
C34	Malignant neoplasm of bronchus and lung	8
C45	Mesothelioma	8
C50	Malignant neoplasm of breast	2
C61	Malignant neoplasm of prostate	1
C67	Malignant neoplasm of bladder	2
C71	Malignant neoplasm of brain	5
C78	Sec malg neoplasm resp & digestive organ	7
C79	Sec malg neoplasm other & unsp sites	7
C83	Non-follicular lymphoma	4
C90	Mult myeloma & malg plasma cell neoplasm	3
C92	Myeloid leukaemia	5
D64	Other anaemias	0
D70	Agranulocytosis	2
E11	Type 2 diabetes mellitus	2
E87	Oth disrd fluid electrolte acid-base bal	3
F05	Delirium not dt alco & oth psyact subs	4
G93	Other disorders of brain	6
I21	Acute myocardial infarction	5
I25	Chronic ischaemic heart disease	0
I26	Pulmonary embolism	3
I35	Nonrheumatic aortic valve disorders	3
I46	Cardiac arrest	9
I48	Atrial fibrillation and flutter	0
I49	Other cardiac arrhythmias	4
I50	Heart failure	6
I60	Subarachnoid haemorrhage	9
I61	Intracerebral haemorrhage	9
I62	Oth nontraumatic intracranial haem	9
I63	Cerebral infarction	7
I64	Stroke not spec haemorrhage or infrcr	7
I70	Atherosclerosis	1
I71	Aortic aneurysm and dissection	7
J10	Influenza dt other id influenza virus	3

J15	Bacterial pneumonia NEC	5
J18	Pneumonia organism unspecified	6
J22	Unsp acute lower respiratory infection	2
J44	Other COPD	4
J69	Pneumonitis due to solids and liquids	9
J84	Other interstitial pulmonary diseases	8
J90	Pleural effusion NEC	4
J96	Respiratory failure NEC	9
K26	Duodenal ulcer	5
K55	Vascular disorders of intestine	8
K56	Paralytic ileus & intest obs wo hernia	4
K57	Diverticular disease of intestine	0
K63	Other diseases of intestine	0
K70	Alcoholic liver disease	7
K72	Hepatic failure NEC	9
K83	Other diseases of biliary tract	3
K85	Acute pancreatitis	1
K92	Other diseases of digestive system	1
L03	Cellulitis	1
N17	Acute kidney failure	6
N18	Chronic kidney disease	4
N39	Other disorders of urinary system	1
R55	Syncope and collapse	0
R57	Shock not elsewhere classified	9
S06	Intracranial injury	6
S22	Fracture rib(s) sternum & thoracic spine	2
S32	Fracture of lumbar spine and pelvis	2
S72	Fracture of femur	5
T82	Comp card vasc prosth dev implant grafts	1

Appendix 2: Reference set low mortality DRG codes (CHBOI 2)

DRG version 8.0

Code	Description
801C	OR Procedures Unrelated to Principal Diagnosis, Minor Complexity
963Z	Neonatal Diagnosis Not Consistent W Age/Weight
A07B	Allogeneic Bone Marrow Transplant, Age >=17 Years and Minor Complexity
A08B	Autologous Bone Marrow Transplant, Minor Complexity
A09B	Kidney Transplant, Age >=17 Years and Minor Complexity
A12Z	Insertion of Neurostimulator Device
B01A	Ventricular Shunt Revision, Major Complexity
B01B	Ventricular Shunt Revision, Minor Complexity
B03A	Spinal Procedures, Major Complexity
B03B	Spinal Procedures, Intermediate Complexity
B03C	Spinal Procedures, Minor Complexity
B04B	Extracranial Vascular Procedures, Intermediate Complexity
B04C	Extracranial Vascular Procedures, Minor Complexity
B05Z	Carpal Tunnel Release
B06B	Procedures for Cerebral Palsy, Muscular Dystrophy and Neuropathy, Interm Comp
B06C	Procedures for Cerebral Palsy, Muscular Dystrophy and Neuropathy, Minor Comp
B07B	Cranial or Peripheral Nerve and Other Nervous System Procedures, Minor Comp
B40Z	Plasmapheresis W Neurological Disease, Sameday
B41Z	Telemetric EEG Monitoring
B62Z	Apheresis
B65B	Cerebral Palsy, Minor Complexity
B67C	Degenerative Nervous System Disorders, Minor Complexity
B68B	Multiple Sclerosis and Cerebellar Ataxia, Minor Complexity
B69B	TIA and Precerebral Occlusion, Minor Complexity
B70D	Stroke and Other Cerebrovascular Disorders, Transferred <5 Days
B71A	Cranial and Peripheral Nerve Disorders, Major Complexity
B71B	Cranial and Peripheral Nerve Disorders, Minor Complexity
B73Z	Viral Meningitis
B75Z	Febrile Convulsions
B76B	Seizures, Minor Complexity
B77A	Headaches, Major Complexity
B77B	Headaches, Minor Complexity
B78C	Intracranial Injuries, Transferred <5 Days
B79B	Skull Fractures, Minor Complexity

B80B	Other Head Injuries, Minor Complexity
B81B	Other Disorders of the Nervous System, Minor Complexity
C01A	Procedures for Penetrating Eye Injury, Major Complexity
C01B	Procedures for Penetrating Eye Injury, Minor Complexity
C02Z	Enucleations and Orbital Procedures
C03A	Retinal Procedures, Major Complexity
C03B	Retinal Procedures, Minor Complexity
C04A	Major Corneal, Scleral and Conjunctival Procedures, Major Complexity
C04B	Major Corneal, Scleral and Conjunctival Procedures, Minor Complexity
C05Z	Dacryocystorhinostomy
C10Z	Strabismus Procedures
C11Z	Eyelid Procedures
C12Z	Other Corneal, Scleral and Conjunctival Procedures
C13Z	Lacrimal Procedures
C14A	Other Eye Procedures, Major Complexity
C14B	Other Eye Procedures, Minor Complexity
C15Z	Glaucoma and Complex Cataract Procedures
C16Z	Lens Procedures
C60B	Acute and Major Eye Infections, Minor Complexity
C61A	Neurological and Vascular Disorders of the Eye, Major Complexity
C61B	Neurological and Vascular Disorders of the Eye, Minor Complexity
C62B	Hyphaema and Medically Managed Trauma to the Eye, Minor Complexity
C63B	Other Disorders of the Eye, Intermediate Complexity
C63C	Other Disorders of the Eye, Minor Complexity
D01Z	Cochlear Implant
D02B	Head and Neck Procedures, Intermediate Complexity
D02C	Head and Neck Procedures, Minor Complexity
D03Z	Surgical Repair for Cleft Lip and Palate Disorders
D04A	Maxillo Surgery, Major Complexity
D04B	Maxillo Surgery, Minor Complexity
D05Z	Parotid Gland Procedures
D06Z	Sinus and Complex Middle Ear Procedures
D10Z	Nasal Procedures
D11Z	Tonsillectomy and Adenoidectomy
D12A	Other Ear, Nose, Mouth and Throat Procedures, Major Complexity
D12B	Other Ear, Nose, Mouth and Throat Procedures, Minor Complexity
D13Z	Myringotomy W Tube Insertion
D14A	Mouth and Salivary Gland Procedures, Major Complexity
D14B	Mouth and Salivary Gland Procedures, Minor Complexity
D15Z	Mastoid Procedures
D40Z	Dental Extractions and Restorations

D61A	Dysequilibrium, Major Complexity
D61B	Dysequilibrium, Minor Complexity
D62B	Epistaxis, Minor Complexity
D63A	Otitis Media and Upper Respiratory Infections, Major Complexity
D63B	Otitis Media and Upper Respiratory Infections, Minor Complexity
D64A	Laryngotracheitis and Epiglottitis, Major Complexity
D64B	Laryngotracheitis and Epiglottitis, Minor Complexity
D65A	Nasal Trauma and Deformity, Major Complexity
D65B	Nasal Trauma and Deformity, Minor Complexity
D66A	Other Ear, Nose, Mouth and Throat Disorders, Major Complexity
D66B	Other Ear, Nose, Mouth and Throat Disorders, Minor Complexity
D67A	Oral and Dental Disorders, Major Complexity
D67B	Oral and Dental Disorders, Minor Complexity
E01C	Major Chest Procedures, Minor Complexity
E02B	Other Respiratory System OR Procedures, Intermediate Complexity
E02C	Other Respiratory System OR Procedures, Minor Complexity
E42B	Bronchoscopy, Minor Complexity
E60A	Cystic Fibrosis, Major Complexity
E60B	Cystic Fibrosis, Minor Complexity
E63A	Sleep Apnoea, Major Complexity
E63B	Sleep Apnoea, Minor Complexity
E66B	Major Chest Trauma, Minor Complexity
E67B	Respiratory Signs and Symptoms, Minor Complexity
E68B	Pneumothorax, Minor Complexity
E69A	Bronchitis and Asthma, Major Complexity
E69B	Bronchitis and Asthma, Minor Complexity
E70A	Whooping Cough and Acute Bronchiolitis, Major Complexity
E70B	Whooping Cough and Acute Bronchiolitis, Minor Complexity
E72Z	Respiratory Problems Arising from Neonatal Period
E75B	Other Respiratory System Disorders, Minor Complexity
E76B	Respiratory Tuberculosis, Minor Complexity
F01B	Implantation and Replacement of AICD, Total System, Minor Complexity
F04C	Cardiac Valve Procedures W CPB Pump W/O Invasive Cardiac Invest, Minor Comp
F05B	Coronary Bypass W Invasive Cardiac Investigation, Minor Complexity
F06B	Coronary Bypass W/O Invasive Cardiac Investigation, Minor Complexity
F08C	Major Reconstructive Vascular Procedures W/O CPB Pump, Minor Complexity
F10B	Interventional Coronary Procedures, Admitted for AMI, Minor Complexity
F12B	Implantation and Replacement of Pacemaker, Total System, Minor Complexity
F13B	Amputation, Upper Limb and Toe, for Circulatory Disorders, Minor Complexity
F14B	Vascular Procedures, Except Major Reconstruction, W/O CPB Pump, Interm Comp
F14C	Vascular Procedures, Except Major Reconstruction, W/O CPB Pump, Minor Complexity

F15B	Interventional Coronary Procs, Not Adm for AMI, W Stent Implant, Minor Comp
F16B	Interventional Coronary Procs, Not Adm for AMI, W/O Stent Implant, Minor Comp
F17B	Insertion and Replacement of Pacemaker Generator, Minor Complexity
F18B	Other Pacemaker Procedures, Minor Complexity
F19B	Trans-Vascular Percutaneous Cardiac Intervention, Minor Complexity
F20Z	Vein Ligation and Stripping
F21C	Other Circulatory System OR Procedures, Minor Complexity
F41B	Circulatory Disorders, Adm for AMI W Invasive Cardiac Inves Proc, Minor Comp
F42B	Circulatory Dsrds, Not Adm for AMI W Invasive Cardiac Inves Proc, Minor Comp
F60B	Circulatory Dsrds, Adm for AMI W/O Invas Card Inves Proc, Transf <5 Days
F62C	Heart Failure and Shock, Transferred <5 Days
F63B	Venous Thrombosis, Minor Complexity
F64C	Skin Ulcers in Circulatory Disorders, Minor Complexity
F66B	Coronary Atherosclerosis, Minor Complexity
F67B	Hypertension, Minor Complexity
F68B	Congenital Heart Disease, Minor Complexity
F69B	Valvular Disorders, Minor Complexity
F72B	Unstable Angina, Minor Complexity
F73B	Syncope and Collapse, Minor Complexity
F74A	Chest Pain, Major Complexity
F74B	Chest Pain, Minor Complexity
G01C	Rectal Resection, Minor Complexity
G02C	Major Small and Large Bowel Procedures, Minor Complexity
G03C	Stomach, Oesophageal and Duodenal Procedures, Minor Complexity
G04B	Peritoneal Adhesiolysis, Intermediate Complexity
G04C	Peritoneal Adhesiolysis, Minor Complexity
G05B	Minor Small and Large Bowel Procedures, Minor Complexity
G06Z	Pyloromyotomy
G07A	Appendectomy, Major Complexity
G07B	Appendectomy, Minor Complexity
G10A	Hernia Procedures, Major Complexity
G10B	Hernia Procedures, Minor Complexity
G11A	Anal and Stomal Procedures, Major Complexity
G11B	Anal and Stomal Procedures, Minor Complexity
G12C	Other Digestive System OR Procedures, Minor Complexity
G46B	Complex Endoscopy, Minor Complexity
G47B	Gastroscopy, Intermediate Complexity
G47C	Gastroscopy, Minor Complexity
G48A	Colonoscopy, Major Complexity
G48B	Colonoscopy, Minor Complexity
G64A	Inflammatory Bowel Disease, Major Complexity

G64B	Inflammatory Bowel Disease, Minor Complexity
G66A	Abdominal Pain and Mesenteric Adenitis, Major Complexity
G66B	Abdominal Pain and Mesenteric Adenitis, Minor Complexity
G67B	Oesophagitis and Gastroenteritis, Minor Complexity
G70B	Other Digestive System Disorders, Minor Complexity
H01B	Pancreas, Liver and Shunt Procedures, Intermediate Complexity
H01C	Pancreas, Liver and Shunt Procedures, Minor Complexity
H05B	Hepatobiliary Diagnostic Procedures, Minor Complexity
H06C	Other Hepatobiliary and Pancreas OR Procedures, Minor Complexity
H07B	Open Cholecystectomy, Intermediate Complexity
H07C	Open Cholecystectomy, Minor Complexity
H08A	Laparoscopic Cholecystectomy, Major Complexity
H08B	Laparoscopic Cholecystectomy, Minor Complexity
H43C	ERCP Procedures, Minor Complexity
H62B	Disorders of Pancreas, Except Malignancy, Minor Complexity
H63C	Other Disorders of Liver, Minor Complexity
H64B	Disorders of the Biliary Tract, Minor Complexity
I01A	Bilateral and Multiple Major Joint Procedures of Lower Limb, Major Complexity
I01B	Bilateral and Multiple Major Joint Procedures of Lower Limb, Minor Complexity
I02B	Microvascular Tissue Transfers or Skin Grafts, Excluding Hand, Intermediate Comp
I02C	Microvascular Tissue Transfers or Skin Grafts, Excluding Hand, Minor Complexity
I03B	Hip Replacement, Minor Complexity
I04A	Knee Replacement, Major Complexity
I04B	Knee Replacement, Minor Complexity
I05A	Other Joint Replacement, Major Complexity
I05B	Other Joint Replacement, Minor Complexity
I06Z	Spinal Fusion for Deformity
I09B	Spinal Fusion, Intermediate Complexity
I09C	Spinal Fusion, Minor Complexity
I10A	Other Back and Neck Procedures, Major Complexity
I10B	Other Back and Neck Procedures, Minor Complexity
I11Z	Limb Lengthening Procedures
I12B	Misc Musculoskeletal Procs for Infect/Inflam of Bone/Joint, Intermediate Comp
I12C	Misc Musculoskeletal Procs for Infect/Inflam of Bone/Joint, Minor Complexity
I13A	Humerus, Tibia, Fibula and Ankle Procedures, Major Complexity
I13B	Humerus, Tibia, Fibula and Ankle Procedures, Minor Complexity
I15A	Cranio-Facial Surgery, Major Complexity
I15B	Cranio-Facial Surgery, Minor Complexity
I16Z	Other Shoulder Procedures
I17A	Maxillo-Facial Surgery, Major Complexity
I17B	Maxillo-Facial Surgery, Minor Complexity

I18A	Other Knee Procedures, Major Complexity
I18B	Other Knee Procedures, Minor Complexity
I19A	Other Elbow and Forearm Procedures, Major Complexity
I19B	Other Elbow and Forearm Procedures, Minor Complexity
I20A	Other Foot Procedures, Major Complexity
I20B	Other Foot Procedures, Minor Complexity
I21Z	Local Excision and Removal of Internal Fixation Devices of Hip and Femur
I23A	Local Excision & Removal of Internal Fixation Device, Except Hip & Fmr, Maj Comp
I23B	Local Excision & Removal of Internal Fixation Device, Except Hip & Fmr, Min Comp
I24A	Arthroscopy, Major Complexity
I24B	Arthroscopy, Minor Complexity
I25B	Bone and Joint Diagnostic Procedures Including Biopsy, Minor Complexity
I27B	Soft Tissue Procedures, Minor Complexity
I28B	Other Musculoskeletal Procedures, Intermediate Complexity
I28C	Other Musculoskeletal Procedures, Minor Complexity
I29Z	Knee Reconstructions, and Revisions of Reconstructions
I30Z	Hand Procedures
I31B	Revision of Hip Replacement, Intermediate Complexity
I31C	Revision of Hip Replacement, Minor Complexity
I32A	Revision of Knee Replacement, Major Complexity
I32B	Revision of Knee Replacement, Minor Complexity
I40Z	Infusions for Musculoskeletal Disorders, Sameday
I63B	Sprains, Strains and Dislocations of Hip, Pelvis and Thigh, Minor Complexity
I64B	Osteomyelitis, Minor Complexity
I66C	Inflammatory Musculoskeletal Disorders, Minor Complexity
I67B	Septic Arthritis, Minor Complexity
I68B	Non-surgical Spinal Disorders, Minor Complexity
I69A	Bone Diseases and Arthropathies, Major Complexity
I69B	Bone Diseases and Arthropathies, Minor Complexity
I71B	Other Musculotendinous Disorders, Minor Complexity
I72B	Specific Musculotendinous Disorders, Minor Complexity
I73B	Aftercare of Musculoskeletal Implants or Prostheses, Minor Complexity
I74B	Injuries to Forearm, Wrist, Hand and Foot, Minor Complexity
I75B	Injuries to Shoulder, Arm, Elbow, Knee, Leg and Ankle, Minor Complexity
I76C	Other Musculoskeletal Disorders, Minor Complexity
I77B	Fractures of Pelvis, Minor Complexity
I80Z	Femoral Fractures, Transferred to Acute Facility <2 Days
I81Z	Musculoskeletal Injuries, Sameday
I82Z	Other Sameday Treatment for Musculoskeletal Disorders
J01A	Microvas Tiss Transf for Skin, Subcut Tiss & Breast Dsrds, Major Complexity
J01B	Microvas Tiss Transf for Skin, Subcut Tiss & Breast Dsrds, Minor Complexity

J06A	Major Procedures for Breast Disorders, Major Complexity
J06B	Major Procedures for Breast Disorders, Minor Complexity
J07A	Minor Procedures for Breast Disorders, Major Complexity
J07B	Minor Procedures for Breast Disorders, Minor Complexity
J08B	Other Skin Grafts and Debridement Procedures, Intermediate Complexity
J08C	Other Skin Grafts and Debridement Procedures, Minor Complexity
J09Z	Perianal and Pilonidal Procedures
J10A	Plastic OR Procs for Skin, Subcutaneous Tissue and Breast Disorders, Major Comp
J10B	Plastic OR Procs for Skin, Subcutaneous Tissue and Breast Disorders, Minor Comp
J11A	Other Skin, Subcutaneous Tissue and Breast Procedures, Major Complexity
J11B	Other Skin, Subcutaneous Tissue and Breast Procedures, Minor Complexity
J12B	Lower Limb Procedures W Ulcer or Cellulitis, Minor Complexity
J13A	Lower Limb Procedures W/O Ulcer or Cellulitis, Major Complexity
J13B	Lower Limb Procedures W/O Ulcer or Cellulitis, Minor Complexity
J14Z	Major Breast Reconstructions
J60C	Skin Ulcers, Minor Complexity
J63A	Non-Malignant Breast Disorders, Major Complexity
J63B	Non-Malignant Breast Disorders, Minor Complexity
J64B	Cellulitis, Minor Complexity
J65B	Trauma to Skin, Subcutaneous Tissue and Breast, Minor Complexity
J67A	Minor Skin Disorders, Major Complexity
J67B	Minor Skin Disorders, Minor Complexity
J68A	Major Skin Disorders, Major Complexity
J68B	Major Skin Disorders, Minor Complexity
K01C	OR Procedures for Diabetic Complications, Minor Complexity
K02B	Pituitary Procedures, Minor Complexity
K03Z	Adrenal Procedures
K05A	Parathyroid Procedures, Major Complexity
K05B	Parathyroid Procedures, Minor Complexity
K06A	Thyroid Procedures, Major Complexity
K06B	Thyroid Procedures, Minor Complexity
K08Z	Thyroglossal Procedures
K09B	Other Endocrine, Nutritional and Metabolic OR Procedures, Minor Complexity
K10A	Revisional and Open Bariatric Procedures, Major Complexity
K10B	Revisional and Open Bariatric Procedures, Minor Complexity
K11A	Major Laparoscopic Bariatric Procedures, Major Complexity
K11B	Major Laparoscopic Bariatric Procedures, Minor Complexity
K12A	Other Bariatric Procedures, Major Complexity
K12B	Other Bariatric Procedures, Minor Complexity
K13Z	Plastic OR Procedures for Endocrine, Nutritional and Metabolic Disorders
K40B	Endoscopic and Investigative Procedures for Metabolic Disorders, Minor Comp

K60B	Diabetes, Minor Complexity
K62C	Miscellaneous Metabolic Disorders, Minor Complexity
K63B	Inborn Errors of Metabolism, Minor Complexity
K64B	Endocrine Disorders, Minor Complexity
L02B	Operative Insertion of Peritoneal Catheter for Dialysis, Minor Complexity
L03B	Kidney, Ureter and Major Bladder Procedures for Neoplasm, Intermediate Comp
L03C	Kidney, Ureter and Major Bladder Procedures for Neoplasm, Minor Complexity
L04B	Kidney, Ureter and Major Bladder Procedures for Non-Neoplasm, Intermediate Comp
L04C	Kidney, Ureter and Major Bladder Procedures for Non-Neoplasm, Minor Complexity
L05B	Transurethral Prostatectomy for Urinary Disorder, Minor Complexity
L06B	Minor Bladder Procedures, Intermediate Complexity
L06C	Minor Bladder Procedures, Minor Complexity
L07B	Other Transurethral Procedures, Minor Complexity
L08A	Urethral Procedures, Major Complexity
L08B	Urethral Procedures, Minor Complexity
L09B	Other Procedures for Kidney and Urinary Tract Disorders, Intermediate Complexity
L09C	Other Procedures for Kidney and Urinary Tract Disorders, Minor Complexity
L40Z	Ureteroscopy
L41Z	Cystourethroscopy for Urinary Disorder, Sameday
L42Z	ESW Lithotripsy
L61Z	Haemodialysis
L63B	Kidney and Urinary Tract Infections, Minor Complexity
L64A	Urinary Stones and Obstruction, Major Complexity
L64B	Urinary Stones and Obstruction, Minor Complexity
L65B	Kidney and Urinary Tract Signs and Symptoms, Minor Complexity
L66Z	Urethral Stricture
L67B	Other Kidney and Urinary Tract Disorders, Intermediate Complexity
L67C	Other Kidney and Urinary Tract Disorders, Minor Complexity
L68Z	Peritoneal Dialysis
M01A	Major Male Pelvic Procedures, Major Complexity
M01B	Major Male Pelvic Procedures, Minor Complexity
M02A	Transurethral Prostatectomy for Reproductive System Disorder, Major Complexity
M02B	Transurethral Prostatectomy for Reproductive System Disorder, Minor Complexity
M03A	Penis Procedures, Major Complexity
M03B	Penis Procedures, Minor Complexity
M04Z	Testes Procedures
M05Z	Circumcision
M06B	Other Male Reproductive System OR Procedures, Minor Complexity
M40Z	Cystourethroscopy for Male Reproductive System Disorder, Sameday
M61A	Benign Prostatic Hypertrophy, Major Complexity
M61B	Benign Prostatic Hypertrophy, Minor Complexity

M62A	Male Reproductive System Inflammation, Major Complexity
M62B	Male Reproductive System Inflammation, Minor Complexity
M63Z	Male Sterilisation Procedures
M64A	Other Male Reproductive System Disorders, Major Complexity
M64B	Other Male Reproductive System Disorders, Minor Complexity
N01A	Pelvic Evisceration and Radical Vulvectomy, Major Complexity
N01B	Pelvic Evisceration and Radical Vulvectomy, Minor Complexity
N04A	Hysterectomy for Non-Malignancy, Major Complexity
N04B	Hysterectomy for Non-Malignancy, Minor Complexity
N05A	Oophorectomy and Complex Fallopian Tube Procedures for Non-Malignancy, Maj Comp
N05B	Oophorectomy and Complex Fallopian Tube Procedures for Non-Malignancy, Min Comp
N06A	Female Reproductive System Reconstructive Procedures, Major Complexity
N06B	Female Reproductive System Reconstructive Procedures, Minor Complexity
N07A	Other Uterus and Adnexa Procedures for Non-Malignancy, Major Complexity
N07B	Other Uterus and Adnexa Procedures for Non-Malignancy, Minor Complexity
N08Z	Endoscopic and Laparoscopic Procedures, Female Reproductive System
N09Z	Other Vagina, Cervix and Vulva Procedures
N10Z	Diagnostic Curettage and Diagnostic Hysteroscopy
N11A	Other Female Reproductive System OR Procedures, Major Complexity
N11B	Other Female Reproductive System OR Procedures, Minor Complexity
N12B	Uterus and Adnexa Procedures for Malignancy, Intermediate Complexity
N12C	Uterus and Adnexa Procedures for Malignancy, Minor Complexity
N61A	Female Reproductive System Infections, Major Complexity
N61B	Female Reproductive System Infections, Minor Complexity
N62A	Menstrual and Other Female Reproductive System Disorders, Major Complexity
N62B	Menstrual and Other Female Reproductive System Disorders, Minor Complexity
O01A	Caesarean Delivery, Major Complexity
O01B	Caesarean Delivery, Intermediate Complexity
O01C	Caesarean Delivery, Minor Complexity
O02A	Vaginal Delivery W OR Procedures, Major Complexity
O02B	Vaginal Delivery W OR Procedures, Minor Complexity
O03A	Ectopic Pregnancy, Major Complexity
O03B	Ectopic Pregnancy, Minor Complexity
O04A	Postpartum and Post Abortion W OR Procedures, Major Complexity
O04B	Postpartum and Post Abortion W OR Procedures, Minor Complexity
O05Z	Abortion W OR Procedures
O60A	Vaginal Delivery, Major Complexity
O60B	Vaginal Delivery, Intermediate Complexity
O60C	Vaginal Delivery, Minor Complexity
O61A	Postpartum and Post Abortion W/O OR Procedures, Major Complexity
O61B	Postpartum and Post Abortion W/O OR Procedures, Minor Complexity

O63A	Abortion W/O OR Procedures, Major Complexity
O63B	Abortion W/O OR Procedures, Minor Complexity
O66A	Antenatal and Other Obstetric Admissions, Major Complexity
O66B	Antenatal and Other Obstetric Admissions, Minor Complexity
P63A	Neonate, AdmWt 1000-1249g W/O Significant OR Proc/Vent>=96hrs, Major Complexity
P63B	Neonate, AdmWt 1000-1249g W/O Significant OR Proc/Vent>=96hrs, Minor Complexity
P64A	Neonate, AdmWt 1250-1499g W/O Significant OR Proc/Vent>=96hrs, Major Complexity
P64B	Neonate, AdmWt 1250-1499g W/O Significant OR Proc/Vent>=96hrs, Minor Complexity
P65A	Neonate, AdmWt 1500-1999g W/O Significant OR Proc/Vent>=96hrs, Extreme Comp
P65B	Neonate, AdmWt 1500-1999g W/O Significant OR Proc/Vent>=96hrs, Major Complexity
P65C	Neonate, AdmWt 1500-1999g W/O Significant OR Proc/Vent>=96hrs, Intermediate Comp
P65D	Neonate, AdmWt 1500-1999g W/O Significant OR Proc/Vent>=96hrs, Minor Complexity
P66A	Neonate, AdmWt 2000-2499g W/O Significant OR Proc/Vent>=96hrs, Extreme Comp
P66B	Neonate, AdmWt 2000-2499g W/O Significant OR Proc/Vent>=96hrs, Major Complexity
P66C	Neonate, AdmWt 2000-2499g W/O Significant OR Proc/Vent>=96hrs, Intermediate Comp
P66D	Neonate, AdmWt 2000-2499g W/O Significant OR Proc/Vent>=96hrs, Minor Complexity
P67A	Neonate, AdmWt >=2500g W/O Sig OR Proc/Vent>=96hrs, <37 Comp Wks Gest, Extr Comp
P67B	Neonate, AdmWt >=2500g W/O Sig OR Proc/Vent>=96hrs, <37 Comp Wks Gest, Maj Comp
P67C	Neonate, AdmWt >=2500g W/O Sig OR Proc/Vent>=96hrs, <37 Comp Wks Gest, Int Comp
P67D	Neonate, AdmWt >=2500g W/O Sig OR Proc/Vent>=96hrs, <37 Comp Wks Gest, Min Comp
P68A	Neonate, AdmWt >=2500g W/O Sig OR Proc/Vent>=96hrs, >=37 Comp Wks Gest, Ext Comp
P68B	Neonate, AdmWt >=2500g W/O Sig OR Proc/Vent>=96hrs, >=37 Comp Wks Gest, Maj Comp
P68C	Neonate, AdmWt >=2500g W/O Sig OR Proc/Vent>=96hrs, >=37 Comp Wks Gest, Int Comp
P68D	Neonate, AdmWt >=2500g W/O Sig OR Proc/Vent>=96hrs, >=37 Comp Wks Gest, Min Comp
Q02B	Blood and Immune System Disorders W Other OR Procedures, Minor Complexity
Q60B	Reticuloendothelial and Immunity Disorders, Minor Complexity
Q61B	Red Blood Cell Disorders, Intermediate Complexity
Q61C	Red Blood Cell Disorders, Minor Complexity
Q62B	Coagulation Disorders, Minor Complexity
R01B	Lymphoma and Leukaemia W Major OR Procedures, Minor Complexity
R02B	Other Neoplastic Disorders W Major OR Procedures, Intermediate Complexity
R02C	Other Neoplastic Disorders W Major OR Procedures, Minor Complexity
R03C	Lymphoma and Leukaemia W Other OR Procedures, Minor Complexity
R04B	Other Neoplastic Disorders W Other OR Procedures, Minor Complexity
R63Z	Chemotherapy
S65C	Human Immunodeficiency Virus, Minor Complexity
T61B	Postoperative and Post-Traumatic Infections, Minor Complexity
T62B	Fever of Unknown Origin, Minor Complexity
T63A	Viral Illnesses, Major Complexity
T63B	Viral Illnesses, Minor Complexity
U40Z	Mental Health Treatment W ECT, Sameday

U60A	Mental Health Treatment W/O ECT, Sameday, Major Complexity
U60B	Mental Health Treatment W/O ECT, Sameday, Minor Complexity
U61A	Schizophrenia Disorders, Major Complexity
U61B	Schizophrenia Disorders, Minor Complexity
U62A	Paranoia and Acute Psychotic Disorders, Major Complexity
U62B	Paranoia and Acute Psychotic Disorders, Minor Complexity
U63A	Major Affective Disorders, Major Complexity
U63B	Major Affective Disorders, Minor Complexity
U64A	Other Affective and Somatoform Disorders, Major Complexity
U64B	Other Affective and Somatoform Disorders, Minor Complexity
U65A	Anxiety Disorders, Major Complexity
U65B	Anxiety Disorders, Minor Complexity
U66A	Eating and Obsessive-Compulsive Disorders, Major Complexity
U66B	Eating and Obsessive-Compulsive Disorders, Minor Complexity
U67A	Personality Disorders and Acute Reactions, Major Complexity
U67B	Personality Disorders and Acute Reactions, Minor Complexity
U68A	Childhood Mental Disorders, Major Complexity
U68B	Childhood Mental Disorders, Minor Complexity
V60A	Alcohol Intoxication and Withdrawal, Major Complexity
V60B	Alcohol Intoxication and Withdrawal, Minor Complexity
V61A	Drug Intoxication and Withdrawal, Major Complexity
V61B	Drug Intoxication and Withdrawal, Minor Complexity
V62A	Alcohol Use and Dependence, Major Complexity
V62B	Alcohol Use and Dependence, Minor Complexity
V63Z	Opioid Use and Dependence
V64Z	Other Drug Use and Dependence
V65Z	Treatment for Alcohol Disorders, Sameday
V66Z	Treatment for Drug Disorders, Sameday
W03Z	Abdominal Procedures for Multiple Significant Trauma
W04A	Multiple Significant Trauma W Other OR Procedures, Major Complexity
W04B	Multiple Significant Trauma W Other OR Procedures, Minor Complexity
X02A	Microvascular Tissue Transfer and Skin Grafts for Injuries to Hand, Major Comp
X02B	Microvascular Tissue Transfer and Skin Grafts for Injuries to Hand, Minor Comp
X04B	Other Procedures for Injuries to Lower Limb, Minor Complexity
X05A	Other Procedures for Injuries to Hand, Major Complexity
X05B	Other Procedures for Injuries to Hand, Minor Complexity
X06B	Other Procedures for Other Injuries, Intermediate Complexity
X06C	Other Procedures for Other Injuries, Minor Complexity
X07B	Skin Grafts for Injuries Excluding Hand, Intermediate Complexity
X07C	Skin Grafts for Injuries Excluding Hand, Minor Complexity
X60B	Injuries, Minor Complexity

X61A	Allergic Reactions, Major Complexity
X61B	Allergic Reactions, Minor Complexity
X62B	Poisoning/Toxic Effects of Drugs and Other Substances, Minor Complexity
X63B	Sequelae of Treatment, Minor Complexity
X64B	Other Injuries, Poisonings and Toxic Effects, Minor Complexity
Y02B	Skin Grafts for Other Burns, Intermediate Complexity
Y02C	Skin Grafts for Other Burns, Minor Complexity
Y03A	Other OR Procedures for Other Burns, Major Complexity
Y03B	Other OR Procedures for Other Burns, Minor Complexity
Y60Z	Burns, Transferred to Acute Facility <5 Days
Y62A	Other Burns, Major Complexity
Y62B	Other Burns, Minor Complexity
Z01B	Other Contacts W Health Services W OR Procedures, Minor Complexity
Z40Z	Other Contacts W Health Services W Endoscopy, Sameday
Z60A	Rehabilitation, Major Complexity
Z60B	Rehabilitation, Minor Complexity
Z61B	Signs and Symptoms, Intermediate Complexity
Z61C	Signs and Symptoms, Minor Complexity
Z63B	Other Follow Up After Surgery or Medical Care, Minor Complexity
Z64B	Other Factors Influencing Health Status, Minor Complexity
Z65Z	Congenital Anomalies and Problems Arising from Neonatal Period
Z66Z	Sleep Disorders

DRG version 9.0

Code	Description
801C	GIs Unrelated to Principal Diagnosis, Minor Complexity
961Z	Unacceptable Principal Diagnosis
963Z	Neonatal Diagnosis Not Consistent W Age/Weight
B01Z	Ventricular Shunt Revision
B03B	Spinal Procedures, Intermediate Complexity
B03C	Spinal Procedures, Minor Complexity
B04C	Extracranial Vascular Procedures, Minor Complexity
B05Z	Carpal Tunnel Release
B06C	Procedures for Cerebral Palsy, Muscular Dystrophy and Neuropathy, Minor Comp
B07B	Cranial or Peripheral Nerve and Other Nervous System Procedures, Minor Comp
B40Z	Plasmapheresis W Neurological Disease, Sameday
B41A	Telemetric EEG Monitoring, Major Complexity
B41B	Telemetric EEG Monitoring, Minor Complexity
B62Z	Apheresis
B65Z	Cerebral Palsy
B67C	Degenerative Nervous System Disorders, Minor Complexity
B68B	Multiple Sclerosis and Cerebellar Ataxia, Minor Complexity
B69B	TIA and Precerebral Occlusion, Minor Complexity
B70D	Stroke and Other Cerebrovascular Disorders, Transferred <5 Days
B71A	Cranial and Peripheral Nerve Disorders, Major Complexity
B71B	Cranial and Peripheral Nerve Disorders, Minor Complexity
B72B	Nervous System Infection Except Viral Meningitis, Minor Complexity
B73A	Viral Meningitis, Major Complexity
B73B	Viral Meningitis, Minor Complexity
B75Z	Febrile Convulsions
B76B	Seizures, Minor Complexity
B77A	Headaches, Major Complexity
B77B	Headaches, Minor Complexity
B78C	Intracranial Injuries, Transferred <5 Days
B79B	Skull Fractures, Minor Complexity
B80B	Other Head Injuries, Minor Complexity
B81B	Other Disorders of the Nervous System, Minor Complexity
C01A	Procedures for Penetrating Eye Injury, Major Complexity
C01B	Procedures for Penetrating Eye Injury, Minor Complexity
C02A	Enucleations and Orbital Procedures, Major Complexity
C02B	Enucleations and Orbital Procedures, Minor Complexity
C03A	Retinal Procedures, Major Complexity
C03B	Retinal Procedures, Minor Complexity

C04A	Major Corneal, Scleral and Conjunctival Procedures, Major Complexity
C04B	Major Corneal, Scleral and Conjunctival Procedures, Minor Complexity
C05Z	Dacryocystorhinostomy
C10Z	Strabismus Procedures
C11Z	Eyelid Procedures
C12A	Other Corneal, Scleral and Conjunctival Procedures, Major Complexity
C12B	Other Corneal, Scleral and Conjunctival Procedures, Minor Complexity
C13Z	Lacrimal Procedures
C14A	Other Eye Procedures, Major Complexity
C14B	Other Eye Procedures, Minor Complexity
C15Z	Glaucoma and Complex Cataract Procedures
C16Z	Lens Procedures
C60B	Acute and Major Eye Infections, Minor Complexity
C61A	Neurological and Vascular Disorders of the Eye, Major Complexity
C61B	Neurological and Vascular Disorders of the Eye, Minor Complexity
C62B	Hyphaema and Medically Managed Trauma to the Eye, Minor Complexity
C63B	Other Disorders of the Eye, Minor Complexity
D01Z	Cochlear Implant
D02A	Head and Neck Procedures, Major Complexity
D02B	Head and Neck Procedures, Minor Complexity
D03A	Surgical Repair for Cleft Lip and Palate Disorders, Major Complexity
D03B	Surgical Repair for Cleft Lip and Palate Disorders, Minor Complexity
D04A	Maxillo Surgery, Major Complexity
D04B	Maxillo Surgery, Minor Complexity
D05Z	Parotid Gland Procedures
D06Z	Sinus and Complex Middle Ear Procedures
D10Z	Nasal Procedures
D11Z	Tonsillectomy and Adenoidectomy
D12A	Other Ear, Nose, Mouth and Throat Procedures, Major Complexity
D12B	Other Ear, Nose, Mouth and Throat Procedures, Minor Complexity
D13Z	Myringotomy W Tube Insertion
D14A	Mouth and Salivary Gland Procedures, Major Complexity
D14B	Mouth and Salivary Gland Procedures, Minor Complexity
D15Z	Mastoid Procedures
D40Z	Dental Extractions and Restorations
D61A	Dysequilibrium, Major Complexity
D61B	Dysequilibrium, Minor Complexity
D62B	Epistaxis, Minor Complexity
D63A	Otitis Media and Upper Respiratory Infections, Major Complexity
D63B	Otitis Media and Upper Respiratory Infections, Minor Complexity
D64A	Laryngotracheitis and Epiglottitis, Major Complexity

D64B	Laryngotracheitis and Epiglottitis, Minor Complexity
D65B	Nasal Trauma and Deformity, Minor Complexity
D66A	Other Ear, Nose, Mouth and Throat Disorders, Major Complexity
D66B	Other Ear, Nose, Mouth and Throat Disorders, Minor Complexity
D67B	Oral and Dental Disorders, Minor Complexity
E01C	Major Chest Procedures, Minor Complexity
E02B	Other Respiratory System GIs, Intermediate Complexity
E02C	Other Respiratory System GIs, Minor Complexity
E42B	Bronchoscopy, Intermediate Complexity
E42C	Bronchoscopy, Minor Complexity
E60A	Cystic Fibrosis, Major Complexity
E60B	Cystic Fibrosis, Minor Complexity
E63A	Sleep Apnoea, Major Complexity
E63B	Sleep Apnoea, Minor Complexity
E66C	Major Chest Trauma, Minor Complexity
E67B	Respiratory Signs and Symptoms, Minor Complexity
E68B	Pneumothorax, Minor Complexity
E69A	Bronchitis and Asthma, Major Complexity
E69B	Bronchitis and Asthma, Minor Complexity
E70A	Whooping Cough and Acute Bronchiolitis, Major Complexity
E70B	Whooping Cough and Acute Bronchiolitis, Minor Complexity
E72Z	Respiratory Problems Arising from Neonatal Period
E75B	Other Respiratory System Disorders, Minor Complexity
F01B	Implantation and Replacement of AICD, Total System, Minor Complexity
F04C	Cardiac Valve Procedures W CPB Pump W/O Invasive Cardiac Invest, Minor Comp
F05B	Coronary Bypass W Invasive Cardiac Investigation, Minor Complexity
F06B	Coronary Bypass W/O Invasive Cardiac Investigation, Intermediate Complexity
F06C	Coronary Bypass W/O Invasive Cardiac Investigation, Minor Complexity
F08C	Major Reconstructive Vascular Procedures W/O CPB Pump, Minor Complexity
F10B	Interventional Coronary Procedures, Admitted for AMI, Minor Complexity
F12B	Implantation and Replacement of Pacemaker, Total System, Minor Complexity
F13B	Amputation, Upper Limb and Toe, for Circulatory Disorders, Minor Complexity
F14B	Vascular Procedures, Except Major Reconstruction, W/O CPB Pump, Intern Comp
F14C	Vascular Procedures, Except Major Reconstruction, W/O CPB Pump, Minor Complexity
F17A	Insertion and Replacement of Pacemaker Generator, Major Complexity
F17B	Insertion and Replacement of Pacemaker Generator, Minor Complexity
F19B	Trans-Vascular Percutaneous Cardiac Intervention, Minor Complexity
F20Z	Vein Ligation and Stripping
F21C	Other Circulatory System GIs, Minor Complexity
F24B	Interventional Coronary Procs, Not Adm for AMI, Minor Comp
F41B	Circulatory Disorders, Adm for AMI W Invasive Cardiac Inves Proc, Minor Comp

F42B	Circulatory Dsrds, Not Adm for AMI W Invasive Cardiac Inves Proc, Minor Comp
F60B	Circulatory Dsrds, Adm for AMI W/O Invas Card Inves Proc, Transf <5 Days
F62C	Heart Failure and Shock, Transferred <5 Days
F63B	Venous Thrombosis, Minor Complexity
F64C	Skin Ulcers in Circulatory Disorders, Minor Complexity
F66B	Coronary Atherosclerosis, Minor Complexity
F67B	Hypertension, Minor Complexity
F68Z	Congenital Heart Disease
F69B	Valvular Disorders, Minor Complexity
F72B	Unstable Angina, Minor Complexity
F73B	Syncope and Collapse, Minor Complexity
F74A	Chest Pain, Major Complexity
F74B	Chest Pain, Minor Complexity
G01C	Rectal Resection, Minor Complexity
G02C	Major Small and Large Bowel Procedures, Minor Complexity
G03C	Stomach, Oesophageal and Duodenal Procedures, Minor Complexity
G04B	Peritoneal Adhesiolysis, Intermediate Complexity
G04C	Peritoneal Adhesiolysis, Minor Complexity
G05B	Minor Small and Large Bowel Procedures, Minor Complexity
G06Z	Pyloromyotomy
G07A	Appendectomy, Major Complexity
G07B	Appendectomy, Minor Complexity
G10A	Hernia Procedures, Major Complexity
G10B	Hernia Procedures, Minor Complexity
G11A	Anal and Stomal Procedures, Major Complexity
G11B	Anal and Stomal Procedures, Minor Complexity
G12C	Other Digestive System GIs, Minor Complexity
G46B	Complex Endoscopy, Minor Complexity
G47B	Gastroscopy, Intermediate Complexity
G47C	Gastroscopy, Minor Complexity
G48A	Colonoscopy, Major Complexity
G48B	Colonoscopy, Minor Complexity
G64B	Inflammatory Bowel Disease, Minor Complexity
G66A	Abdominal Pain and Mesenteric Adenitis, Major Complexity
G66B	Abdominal Pain and Mesenteric Adenitis, Minor Complexity
G67B	Oesophagitis and Gastroenteritis, Minor Complexity
G70C	Other Digestive System Disorders, Minor Complexity
H01B	Pancreas, Liver and Shunt Procedures, Intermediate Complexity
H01C	Pancreas, Liver and Shunt Procedures, Minor Complexity
H02C	Major Biliary Tract Procedures, Minor Complexity
H05B	Hepatobiliary Diagnostic Procedures, Intermediate Complexity

H05C	Hepatobiliary Diagnostic Procedures, Minor Complexity
H06C	Other Hepatobiliary and Pancreas GIs, Minor Complexity
H07B	Open Cholecystectomy, Intermediate Complexity
H07C	Open Cholecystectomy, Minor Complexity
H08A	Laparoscopic Cholecystectomy, Major Complexity
H08B	Laparoscopic Cholecystectomy, Minor Complexity
H62B	Disorders of Pancreas, Except Malignancy, Minor Complexity
H63C	Other Disorders of Liver, Minor Complexity
H64C	Disorders of the Biliary Tract, Minor Complexity
I01A	Bilateral and Multiple Major Joint Procedures of Lower Limb, Major Complexity
I01B	Bilateral and Multiple Major Joint Procedures of Lower Limb, Minor Complexity
I02B	Microvascular Tissue Transfers or Skin Grafts, Excluding Hand, Intermediate Comp
I02C	Microvascular Tissue Transfers or Skin Grafts, Excluding Hand, Minor Complexity
I04A	Knee Replacement, Major Complexity
I04B	Knee Replacement, Minor Complexity
I05A	Other Joint Replacement, Major Complexity
I05B	Other Joint Replacement, Minor Complexity
I06Z	Spinal Fusion for Deformity
I09B	Spinal Fusion, Intermediate Complexity
I09C	Spinal Fusion, Minor Complexity
I10A	Other Back and Neck Procedures, Major Complexity
I10B	Other Back and Neck Procedures, Minor Complexity
I11Z	Limb Lengthening Procedures
I12B	Misc Musculoskeletal Procs for Infect/Inflam of Bone/Joint, Intermediate Comp
I12C	Misc Musculoskeletal Procs for Infect/Inflam of Bone/Joint, Minor Complexity
I13B	Humerus, Tibia, Fibula and Ankle Procedures, Intermediate Complexity
I13C	Humerus, Tibia, Fibula and Ankle Procedures, Minor Complexity
I15Z	Cranio-Facial Surgery
I16Z	Other Shoulder Procedures
I17A	Maxillo-Facial Surgery, Major Complexity
I17B	Maxillo-Facial Surgery, Minor Complexity
I18A	Other Knee Procedures, Major Complexity
I18B	Other Knee Procedures, Minor Complexity
I19A	Other Elbow and Forearm Procedures, Major Complexity
I19B	Other Elbow and Forearm Procedures, Minor Complexity
I20A	Other Foot Procedures, Major Complexity
I20B	Other Foot Procedures, Minor Complexity
I21A	Local Excision and Removal of Internal Fixation Devices of Hip & Femur, Maj Comp
I21B	Local Excision and Removal of Internal Fixation Devices of Hip & Femur, Min Comp
I23A	Local Excision & Removal of Internal Fixation Device, Except Hip & Fmr, Maj Comp
I23B	Local Excision & Removal of Internal Fixation Device, Except Hip & Fmr, Min Comp

I24A	Arthroscopy, Major Complexity
I24B	Arthroscopy, Minor Complexity
I25B	Bone and Joint Diagnostic Procedures Including Biopsy, Minor Complexity
I27B	Soft Tissue Procedures, Minor Complexity
I28B	Other Musculoskeletal Procedures, Intermediate Complexity
I28C	Other Musculoskeletal Procedures, Minor Complexity
I29Z	Knee Reconstructions, and Revisions of Reconstructions
I30Z	Hand Procedures
I31B	Revision of Hip Replacement, Intermediate Complexity
I31C	Revision of Hip Replacement, Minor Complexity
I32B	Revision of Knee Replacement, Minor Complexity
I33A	Hip Replacement for Non-Trauma, Major Complexity
I33B	Hip Replacement for Non-Trauma, Minor Complexity
I61B	Distal Femoral Fractures, Minor Complexity
I63A	Sprains, Strains and Dislocations of Hip, Pelvis and Thigh, Major Complexity
I63B	Sprains, Strains and Dislocations of Hip, Pelvis and Thigh, Minor Complexity
I64B	Osteomyelitis, Minor Complexity
I66B	Inflammatory Musculoskeletal Disorders, Minor Complexity
I67B	Septic Arthritis, Minor Complexity
I68B	Non-surgical Spinal Disorders, Minor Complexity
I69A	Bone Diseases and Arthropathies, Major Complexity
I69B	Bone Diseases and Arthropathies, Minor Complexity
I71A	Other Musculotendinous Disorders, Major Complexity
I71B	Other Musculotendinous Disorders, Minor Complexity
I72B	Specific Musculotendinous Disorders, Minor Complexity
I73B	Aftercare of Musculoskeletal Implants or Prostheses, Intermediate Complexity
I73C	Aftercare of Musculoskeletal Implants or Prostheses, Minor Complexity
I74A	Injuries to Forearm, Wrist, Hand and Foot, Major Complexity
I74B	Injuries to Forearm, Wrist, Hand and Foot, Minor Complexity
I75B	Injuries to Shoulder, Arm, Elbow, Knee, Leg and Ankle, Intermediate Complexity
I75C	Injuries to Shoulder, Arm, Elbow, Knee, Leg and Ankle, Minor Complexity
I76B	Other Musculoskeletal Disorders, Minor Complexity
I77B	Fractures of Pelvis, Minor Complexity
I80Z	Femoral Fractures, Transferred to Acute Facility <2 Days
J01A	Microvas Tiss Transf for Skin, Subcut Tiss & Breast Dsrds, Major Complexity
J01B	Microvas Tiss Transf for Skin, Subcut Tiss & Breast Dsrds, Minor Complexity
J06A	Major Procedures for Breast Disorders, Major Complexity
J06B	Major Procedures for Breast Disorders, Minor Complexity
J07Z	Minor Procedures for Breast Disorders
J08B	Other Skin Grafts and Debridement Procedures, Intermediate Complexity
J08C	Other Skin Grafts and Debridement Procedures, Minor Complexity

J09Z	Perianal and Pilonidal Procedures
J10A	Plastic GIs for Skin, Subcutaneous Tissue and Breast Disorders, Major Comp
J10B	Plastic GIs for Skin, Subcutaneous Tissue and Breast Disorders, Minor Comp
J11A	Other Skin, Subcutaneous Tissue and Breast Procedures, Major Complexity
J11B	Other Skin, Subcutaneous Tissue and Breast Procedures, Minor Complexity
J12B	Lower Limb Procedures W Ulcer or Cellulitis, Minor Complexity
J13B	Lower Limb Procedures W/O Ulcer or Cellulitis, Minor Complexity
J14Z	Major Breast Reconstructions
J60C	Skin Ulcers, Minor Complexity
J63A	Non-Malignant Breast Disorders, Major Complexity
J63B	Non-Malignant Breast Disorders, Minor Complexity
J64B	Cellulitis, Minor Complexity
J65B	Trauma to Skin, Subcutaneous Tissue and Breast, Minor Complexity
J67A	Minor Skin Disorders, Major Complexity
J67B	Minor Skin Disorders, Minor Complexity
J68B	Major Skin Disorders, Minor Complexity
K01C	GIs for Diabetic Complications, Minor Complexity
K02Z	Pituitary Procedures
K03Z	Adrenal Procedures
K05A	Parathyroid Procedures, Major Complexity
K05B	Parathyroid Procedures, Minor Complexity
K06A	Thyroid Procedures, Major Complexity
K06B	Thyroid Procedures, Minor Complexity
K08Z	Thyroglossal Procedures
K09B	Other Endocrine, Nutritional and Metabolic GIs, Minor Complexity
K10Z	Revisional and Open Bariatric Procedures
K11Z	Major Laparoscopic Bariatric Procedures
K12Z	Other Bariatric Procedures
K13Z	Plastic GIs for Endocrine, Nutritional and Metabolic Disorders
K40B	Endoscopic and Investigative Procedures for Metabolic Disorders, Minor Comp
K60B	Diabetes, Minor Complexity
K62C	Miscellaneous Metabolic Disorders, Minor Complexity
K63B	Inborn Errors of Metabolism, Minor Complexity
K64B	Endocrine Disorders, Minor Complexity
L02B	Operative Insertion of Peritoneal Catheter for Dialysis, Minor Complexity
L03B	Kidney, Ureter and Major Bladder Procedures for Neoplasm, Intermediate Comp
L03C	Kidney, Ureter and Major Bladder Procedures for Neoplasm, Minor Complexity
L04B	Kidney, Ureter and Major Bladder Procedures for Non-Neoplasm, Intermediate Comp
L04C	Kidney, Ureter and Major Bladder Procedures for Non-Neoplasm, Minor Complexity
L05B	Transurethral Prostatectomy for Urinary Disorder, Minor Complexity
L06B	Minor Bladder Procedures, Intermediate Complexity

L06C	Minor Bladder Procedures, Minor Complexity
L07B	Other Transurethral Procedures, Minor Complexity
L08A	Urethral Procedures, Major Complexity
L08B	Urethral Procedures, Minor Complexity
L09B	Other Procedures for Kidney and Urinary Tract Disorders, Intermediate Complexity
L09C	Other Procedures for Kidney and Urinary Tract Disorders, Minor Complexity
L10B	Kidney Transplant, Age >=17 Years and Minor Complexity
L40Z	Ureteroscopy
L41Z	Cystourethroscopy for Urinary Disorder, Sameday
L42Z	ESW Lithotripsy
L61Z	Haemodialysis
L63B	Kidney and Urinary Tract Infections, Minor Complexity
L64A	Urinary Stones and Obstruction, Major Complexity
L64B	Urinary Stones and Obstruction, Minor Complexity
L65B	Kidney and Urinary Tract Signs and Symptoms, Minor Complexity
L66Z	Urethral Stricture
L67B	Other Kidney and Urinary Tract Disorders, Intermediate Complexity
L67C	Other Kidney and Urinary Tract Disorders, Minor Complexity
L68Z	Peritoneal Dialysis
M01A	Major Male Pelvic Procedures, Major Complexity
M01B	Major Male Pelvic Procedures, Minor Complexity
M02A	Transurethral Prostatectomy for Reproductive System Disorder, Major Complexity
M02B	Transurethral Prostatectomy for Reproductive System Disorder, Minor Complexity
M03A	Penis Procedures, Major Complexity
M03B	Penis Procedures, Minor Complexity
M04Z	Testes Procedures
M05Z	Circumcision
M06B	Other Male Reproductive System GIs, Minor Complexity
M40Z	Cystourethroscopy for Male Reproductive System Disorder, Sameday
M61A	Benign Prostatic Hypertrophy, Major Complexity
M61B	Benign Prostatic Hypertrophy, Minor Complexity
M62B	Male Reproductive System Inflammation, Minor Complexity
M63Z	Male Sterilisation Procedures
M64A	Other Male Reproductive System Disorders, Major Complexity
M64B	Other Male Reproductive System Disorders, Minor Complexity
N01Z	Pelvic Evisceration and Radical Vulvectomy
N04A	Hysterectomy for Non-Malignancy, Major Complexity
N04B	Hysterectomy for Non-Malignancy, Minor Complexity
N05A	Oophorectomy and Complex Fallopian Tube Procedures for Non-Malignancy, Maj Comp
N05B	Oophorectomy and Complex Fallopian Tube Procedures for Non-Malignancy, Min Comp
N06A	Female Reproductive System Reconstructive Procedures, Major Complexity

N06B	Female Reproductive System Reconstructive Procedures, Minor Complexity
N07A	Other Uterus and Adnexa Procedures for Non-Malignancy, Major Complexity
N07B	Other Uterus and Adnexa Procedures for Non-Malignancy, Minor Complexity
N08Z	Endoscopic and Laparoscopic Procedures, Female Reproductive System
N09A	Other Vagina, Cervix and Vulva Procedures, Major Complexity
N09B	Other Vagina, Cervix and Vulva Procedures, Minor Complexity
N10Z	Diagnostic Curettage and Diagnostic Hysteroscopy
N11A	Other Female Reproductive System GIs, Major Complexity
N11B	Other Female Reproductive System GIs, Minor Complexity
N12B	Uterus and Adnexa Procedures for Malignancy, Intermediate Complexity
N12C	Uterus and Adnexa Procedures for Malignancy, Minor Complexity
N61A	Female Reproductive System Infections, Major Complexity
N61B	Female Reproductive System Infections, Minor Complexity
N62A	Menstrual and Other Female Reproductive System Disorders, Major Complexity
N62B	Menstrual and Other Female Reproductive System Disorders, Minor Complexity
O01A	Caesarean Delivery, Major Complexity
O01B	Caesarean Delivery, Intermediate Complexity
O01C	Caesarean Delivery, Minor Complexity
O02A	Vaginal Delivery W GIs, Major Complexity
O02B	Vaginal Delivery W GIs, Minor Complexity
O03Z	Ectopic Pregnancy
O04A	Postpartum and Post Abortion W GIs, Major Complexity
O04B	Postpartum and Post Abortion W GIs, Minor Complexity
O05Z	Abortion W GIs
O60A	Vaginal Delivery, Major Complexity
O60B	Vaginal Delivery, Intermediate Complexity
O60C	Vaginal Delivery, Minor Complexity
O61A	Postpartum and Post Abortion W/O GIs, Major Complexity
O61B	Postpartum and Post Abortion W/O GIs, Minor Complexity
O63A	Abortion W/O GIs, Major Complexity
O63B	Abortion W/O GIs, Minor Complexity
O66A	Antenatal and Other Obstetric Admissions, Major Complexity
O66B	Antenatal and Other Obstetric Admissions, Intermediate Complexity
O66C	Antenatal and Other Obstetric Admissions, Minor Complexity
P63A	Neonate, AdmWt 1000-1249g W/O Significant GI/Vent>=96hrs, Major Complexity
P63B	Neonate, AdmWt 1000-1249g W/O Significant GI/Vent>=96hrs, Minor Complexity
P64A	Neonate, AdmWt 1250-1499g W/O Significant GI/Vent>=96hrs, Major Complexity
P64B	Neonate, AdmWt 1250-1499g W/O Significant GI/Vent>=96hrs, Minor Complexity
P65A	Neonate, AdmWt 1500-1999g W/O Significant GI/Vent>=96hrs, Extreme Comp
P65B	Neonate, AdmWt 1500-1999g W/O Significant GI/Vent>=96hrs, Major Complexity
P65C	Neonate, AdmWt 1500-1999g W/O Significant GI/Vent>=96hrs, Intermediate Comp

P65D	Neonate, AdmWt 1500-1999g W/O Significant GI/Vent>=96hrs, Minor Complexity
P66A	Neonate, AdmWt 2000-2499g W/O Significant GI/Vent>=96hrs, Extreme Comp
P66B	Neonate, AdmWt 2000-2499g W/O Significant GI/Vent>=96hrs, Major Complexity
P66C	Neonate, AdmWt 2000-2499g W/O Significant GI/Vent>=96hrs, Intermediate Comp
P66D	Neonate, AdmWt 2000-2499g W/O Significant GI/Vent>=96hrs, Minor Complexity
P67A	Neonate, AdmWt >=2500g W/O Sig GI/Vent>=96hrs, <37 Comp Wks Gest, Extr Comp
P67B	Neonate, AdmWt >=2500g W/O Sig GI/Vent>=96hrs, <37 Comp Wks Gest, Maj Comp
P67C	Neonate, AdmWt >=2500g W/O Sig GI/Vent>=96hrs, <37 Comp Wks Gest, Int Comp
P67D	Neonate, AdmWt >=2500g W/O Sig GI/Vent>=96hrs, <37 Comp Wks Gest, Min Comp
P68A	Neonate, AdmWt >=2500g W/O Sig GI/Vent>=96hrs, >=37 Comp Wks Gest, Ext Comp
P68B	Neonate, AdmWt >=2500g W/O Sig GI/Vent>=96hrs, >=37 Comp Wks Gest, Maj Comp
P68C	Neonate, AdmWt >=2500g W/O Sig GI/Vent>=96hrs, >=37 Comp Wks Gest, Int Comp
P68D	Neonate, AdmWt >=2500g W/O Sig GI/Vent>=96hrs, >=37 Comp Wks Gest, Min Comp
Q02B	Blood and Immune System Disorders W Other Gl's, Minor Complexity
Q60B	Reticuloendothelial and Immunity Disorders, Minor Complexity
Q61B	Red Blood Cell Disorders, Intermediate Complexity
Q61C	Red Blood Cell Disorders, Minor Complexity
Q62B	Coagulation Disorders, Minor Complexity
R01B	Lymphoma and Leukaemia W Major Gl's, Minor Complexity
R02B	Other Neoplastic Disorders W Major Gl's, Intermediate Complexity
R02C	Other Neoplastic Disorders W Major Gl's, Minor Complexity
R03C	Lymphoma and Leukaemia W Other Gl's, Minor Complexity
R04B	Other Neoplastic Disorders W Other Gl's, Minor Complexity
R06B	Autologous Bone Marrow Transplant, Minor Complexity
R61C	Lymphoma and Non-Acute Leukaemia, Minor Complexity
R63Z	Chemotherapy
T61B	Postoperative Infections, Minor Complexity
T62B	Fever of Unknown Origin, Minor Complexity
T63A	Viral Illnesses, Major Complexity
T63B	Viral Illnesses, Minor Complexity
U40A	Mental Health Treatment W ECT, Sameday, Major Complexity
U40B	Mental Health Treatment W ECT, Sameday, Minor Complexity
U60Z	Mental Health Treatment W/O ECT, Sameday
U61A	Schizophrenia Disorders, Major Complexity
U61B	Schizophrenia Disorders, Minor Complexity
U62A	Paranoia and Acute Psychotic Disorders, Major Complexity
U62B	Paranoia and Acute Psychotic Disorders, Minor Complexity
U63A	Major Affective Disorders, Major Complexity
U63B	Major Affective Disorders, Minor Complexity
U64A	Other Affective and Somatoform Disorders, Major Complexity
U64B	Other Affective and Somatoform Disorders, Minor Complexity

U65A	Anxiety Disorders, Major Complexity
U65B	Anxiety Disorders, Minor Complexity
U66A	Eating and Obsessive-Compulsive Disorders, Major Complexity
U66B	Eating and Obsessive-Compulsive Disorders, Minor Complexity
U67A	Personality Disorders and Acute Reactions, Major Complexity
U67B	Personality Disorders and Acute Reactions, Minor Complexity
U68A	Childhood Mental Disorders, Major Complexity
U68B	Childhood Mental Disorders, Minor Complexity
V60A	Alcohol Intoxication and Withdrawal, Major Complexity
V60B	Alcohol Intoxication and Withdrawal, Minor Complexity
V61A	Drug Intoxication and Withdrawal, Major Complexity
V61B	Drug Intoxication and Withdrawal, Minor Complexity
V62A	Alcohol Use and Dependence, Major Complexity
V62B	Alcohol Use and Dependence, Minor Complexity
V63Z	Opioid Use and Dependence
V64A	Other Drug Use and Dependence, Major Complexity
V64B	Other Drug Use and Dependence, Minor Complexity
W60Z	Multiple Sig Trauma, Transferred to Acute Facility <5 Days
X02A	Microvascular Tissue Transfer and Skin Grafts for Injuries to Hand, Major Comp
X02B	Microvascular Tissue Transfer and Skin Grafts for Injuries to Hand, Minor Comp
X04B	Other Procedures for Injuries to Lower Limb, Minor Complexity
X05A	Other Procedures for Injuries to Hand, Major Complexity
X05B	Other Procedures for Injuries to Hand, Minor Complexity
X06B	Other Procedures for Other Injuries, Intermediate Complexity
X06C	Other Procedures for Other Injuries, Minor Complexity
X07B	Skin Grafts for Injuries Excluding Hand, Intermediate Complexity
X07C	Skin Grafts for Injuries Excluding Hand, Minor Complexity
X60B	Injuries, Minor Complexity
X61A	Allergic Reactions, Major Complexity
X61B	Allergic Reactions, Minor Complexity
X62B	Poisoning/Toxic Effects of Drugs and Other Substances, Minor Complexity
X63B	Sequelae of Treatment, Minor Complexity
X64C	Other Injuries, Poisonings and Toxic Effects, Minor Complexity
Y02B	Skin Grafts for Other Burns, Intermediate Complexity
Y02C	Skin Grafts for Other Burns, Minor Complexity
Y03B	Other GIs for Other Burns, Minor Complexity
Y60Z	Burns, Transferred to Acute Facility <5 Days
Y62A	Other Burns, Major Complexity
Y62B	Other Burns, Minor Complexity
Z01B	Other Contacts W Health Services W GIs, Minor Complexity
Z40Z	Other Contacts W Health Services W Endoscopy

Z60A	Rehabilitation, Major Complexity
Z60B	Rehabilitation, Minor Complexity
Z61B	Signs and Symptoms, Minor Complexity
Z63B	Other Follow Up After Surgery or Medical Care, Minor Complexity
Z64B	Other Factors Influencing Health Status, Minor Complexity
Z65Z	Congenital Anomalies and Problems Arising from Neonatal Period
Z66Z	Sleep Disorders

Appendix 3: ICD-10-AM codes for trauma, immuno-compromised state or cancer for CHBOI 2

Notes:

1. **Hierarchical representation.** Where codes are presented at a three or four character level, they include all codes classifiable to that level. For example, *S01 Open wound of head* includes all of the following:
 - S01.0 Open wound of scalp
 - S01.1 Open wound of eyelid and periocular area
 - S01.2 Open wound of nose
 - S01.20 Open wound of nose, part unspecified
 - S01.21 Open wound of nose, external skin
 - S01.22 Open wound of nares (nostril)
 - S01.23 Open wound of nasal septum
 - S01.29 Open wound of other and multiple parts of nose
 - etc.
2. **Aetiology and manifestation convention - the 'dagger and asterisk' system.** ICD-10-AM uses the dagger and asterisk system to differentiate between aetiology and manifestation. Codes for aetiology (underlying cause) are annotated by a dagger symbol (†) and manifestation codes by an asterisk (*) symbol. In the list of codes below, both the aetiology and manifestation codes are given where relevant. For example:
 - B59† Pneumocystosis (J17.3*)

ICD-10-AM 9th and 10th editions trauma diagnosis codes

Injuries to the head (S001–S09)

- S01 Open wound of head
- S02 Fracture of skull and facial bones
- S03 Dislocation, sprain and strain of joints and ligaments of head
- S04 Injury of cranial nerves
- S05 Injury of eye and orbit
- S06 Intracranial injury
- S07 Crushing injury of head
- S08 Traumatic amputation of part of head
- S09 Other and unspecified injuries of head

Injuries to the neck (S11–S19)

- S11 Open wound of neck
- S12 Fracture of neck
- S13 Dislocation, sprain and strain of joints and ligaments at neck level
- S14 Injury of nerves and spinal cord at neck level
- S15 Injury of blood vessels at neck level
- S16 Injury of muscle and tendon at neck level
- S17 Crushing injury of neck

- S18 Traumatic amputation at neck level
- S19 Other and unspecified injuries of neck

Injuries to the thorax (S21–S29)

- S21 Open wound of thorax
- S22 Fracture of rib(s), sternum and thoracic spine
- S23 Dislocation, sprain and strain of joints and ligaments of thorax
- S24 Injury of nerves and spinal cord at thorax level
- S25 Injury of blood vessels of thorax
- S26 Injury of heart
- S27 Injury of other and unspecified intrathoracic organs
- S28 Crushing injury of thorax and traumatic amputation of part of thorax
- S29 Other and unspecified injuries of thorax

Injuries to the abdomen, lower back, lumbar spine and pelvis (S31–S39)

- S31 Open wound of abdomen, lower back and pelvis
- S32 Fracture of lumbar spine and pelvis
- S33 Dislocation, sprain and strain of joints and ligaments of lumbar spine and pelvis
- S34 Injury of nerves and lumbar spinal cord at abdomen, lower back and pelvis level
- S35 Injury of blood vessels at abdomen, lower back and pelvis level
- S36 Injury of intra-abdominal organs
- S37 Injury of urinary and pelvic organs
- S38 Crushing injury and traumatic amputation of part of abdomen, lower back & pelvis
- S39 Other and unspecified injuries of abdomen, lower back and pelvis

Injuries to the shoulder and upper arm (S41–S49)

- S41 Open wound of shoulder and upper arm
- S42 Fracture of shoulder and upper arm
- S43 Dislocation, sprain and strain of joints and ligaments of shoulder girdle
- S44 Injury of nerves at shoulder and upper arm level
- S45 Injury of blood vessels at shoulder and upper arm level
- S46 Injury of muscle and tendon at shoulder and upper arm level
- S47 Crushing injury of shoulder and upper arm
- S48 Traumatic amputation of shoulder and upper arm
- S49 Other and unspecified injuries of shoulder and upper arm

Injuries to the elbow and forearm (S51–S59)

- S51 Open wound of forearm
- S52 Fracture of forearm
- S53 Dislocation, sprain and strain of joints and ligaments of elbow
- S54 Injury of nerves at forearm level
- S55 Injury of blood vessels at forearm level
- S56 Injury of muscle and tendon at forearm level
- S57 Crushing injury of forearm
- S58 Traumatic amputation of forearm
- S59 Other and unspecified injuries of forearm

Injuries to the wrist and hand (S61–S69)

- S61 Open wound of wrist and hand
- S62 Fracture at wrist and hand level
- S63 Dislocation, sprain and strain of joints and ligaments at wrist and hand level

- S64 Injury of nerves at wrist and hand level
- S65 Injury of blood vessels at wrist and hand level
- S66 Injury of muscle and tendon at wrist and hand level
- S67 Crushing injury of wrist and hand
- S68 Traumatic amputation of wrist and hand
- S69 Other and unspecified injuries of wrist and hand

Injuries to the hip and thigh (S71–S79)

- S71 Open wound of hip and thigh
- S72 Fracture of femur
- S73 Dislocation, sprain and strain of joint and ligaments of hip
- S74 Injury of nerves at hip and thigh level
- S75 Injury of blood vessels at hip and thigh level
- S76 Injury of muscle and tendon at hip and thigh level
- S77 Crushing injury of hip and thigh
- S78 Traumatic amputation of hip and thigh
- S79 Other and specified injuries of hip and thigh

Injuries to the knee and lower leg (S81–S89)

- S81 Open wound of lower leg
- S82 Fracture of lower leg, including ankle
- S83 Dislocation, sprain and strain of joints and ligaments of knee
- S84 Injury of nerves at lower leg level
- S85 Injury of blood vessels at lower leg level
- S86 Injury of muscle and tendon at lower leg level
- S87 Crushing injury of lower leg
- S88 Traumatic amputation of lower leg
- S89 Other and unspecified injuries of lower leg

Injuries to the ankle and foot (S91–S99)

- S91 Open wound of ankle and foot
- S92 Fracture of foot, except ankle
- S93 Dislocation, sprain and strain of joints and ligaments at ankle and foot level
- S94 Injury of nerves at ankle and foot level
- S95 Injury of blood vessels at ankle and foot level
- S96 Injury of muscle and tendon at ankle and foot level
- S97 Crushing injury of ankle and foot
- S98 Traumatic amputation of ankle and foot
- S99 Other and unspecified injuries of ankle and foot

Injuries involving multiple body regions (T01–T07)

- T01 Open wounds involving multiple body regions
- T02 Fractures involving multiple body regions
- T03 Dislocations, sprains and strains involving multiple body regions
- T04 Crushing injuries involving multiple body regions
- T05 Traumatic amputations involving multiple body regions
- T06 Other injuries involving multiple body regions, not elsewhere classified
- T07 Unspecified multiple injuries

Injuries to unspecified part of trunk, limb or body region (T08–T14)

- T08 Fracture of spine, level unspecified

- T09 Other injuries of spine and trunk, level unspecified
- T10 Fracture of upper limb, level unspecified
- T11 Other injuries of upper limb, level unspecified
- T12 Fracture of lower limb, level unspecified
- T13 Other injuries of lower limb, level unspecified
- T14 Injury of unspecified body region

Burns (T20–T31)

Burns of external body surface, specified by site (T20–T25)

- T20 Burn of head and neck
- T21 Burn of trunk
- T22 Burn of shoulder and upper limb, except wrist and hand
- T23 Burn of wrist and hand
- T24 Burn of hip and lower limb, except ankle and foot
- T25 Burn of ankle and foot

Burns of eye and internal organs (T26–T28)

- T26 Burn of eye and adnexa
- T27 Burn of respiratory tract
- T28 Burn of other internal organs

Burns of multiple and unspecified body regions (T29–T31)

- T29 Burns of multiple body regions
- T30 Burn, body region unspecified
- T31 Burns classified according to extent of body surface involved

Frostbite (T34–T35)

- T34 Frostbite with tissue necrosis
- T35 Frostbite involving multiple body regions and unspecified frostbite

Certain early complications of trauma (T79)

- T79 Certain early complications of trauma, not elsewhere classified

Other complications of trauma not elsewhere classified (T89)

- T89 Other specified complications of trauma

ICD-10-AM 9th and 10th editions immunocompromised state diagnosis codes

Human immunodeficiency virus [HIV] disease (B20–B24)

- B20 Human immunodeficiency virus [HIV] disease resulting in infectious and parasitic diseases
- B21 Human immunodeficiency virus [HIV] disease resulting in malignant neoplasms
- B22 Human immunodeficiency virus [HIV] disease resulting in other specified diseases
- B23 Human immunodeficiency virus [HIV] disease resulting in other conditions
- B24 Unspecified human immunodeficiency virus [HIV] disease

Protozoal diseases (B59)

- B59† Pneumocystosis (J17.3*)

Other diseases of blood and blood-forming organs (D70–D73)

- D70 Agranulocytosis

- D71 Functional disorders of polymorphonuclear neutrophils
- D72 Other disorders of white blood cells
- D73 Diseases of spleen

Certain disorders involving the immune mechanism (D80-D89)

- D80 Immunodeficiency with predominantly antibody defects
- D81 Combined immunodeficiencies
- D82 Immunodeficiency associated with other major defects
- D83 Common variable immunodeficiency
- D84 Other immunodeficiencies
- D86 Sarcoidosis
- D89 Other disorders involving the immune mechanism, not elsewhere classified

Malnutrition (E40-E43)

- E40 Kwashiorkor
- E41 Nutritional marasmus
- E42 Marasmic kwashiorkor
- E43 Unspecified severe protein-energy malnutrition

Hypertensive diseases (I12-I13)

- I12 Hypertensive kidney disease
- I13 Hypertensive heart and kidney disease

Other

- K91.2 Postprocedural malabsorption, not elsewhere classified
- M35.9 Systemic involvement of connective tissue, unspecified
- N18 Chronic kidney disease
- N19 Unspecified kidney failure
- T86 Failure and rejection of transplanted organs and tissues
- Z49 Care involving dialysis
- Z94 Transplanted organ and tissue status
- Z99.2 Dependence on kidney dialysis

ICD-10-AM 9th and 10th editions immunocompromised state intervention codes (square brackets indicate ACHI block)

- 13706-00 [802] Allo bm/sc trnsplnt rel don wo invitro
- 13706-06 [802] Allo bm/sc trnsplnt rel don w invitro
- 13706-07 [802] Autolgs bm/stem cel trnsplnt wo invitro
- 13706-08 [802] Autolgs bm/stem cell trnsplnt w invitro
- 13706-09 [802] Allo bm/sc trnsplnt oth don wo invitro
- 13706-10 [802] Allo bm/sc trnsplnt oth don w invitro
- 14203-01 [1906] Direct living tissue implantation
- 36503-00 [1058] Kidney transplantation
- 90172-00 [555] Sequential single lung trnsplnt bil
- 90172-01 [555] Other transplantation of lung
- 90205-00 [660] Heart transplantation
- 90205-01 [660] Heart and lung transplantation
- 90317-00 [954] Transplantation of liver

90324-00 [981] Transplantation of pancreas

ICD-10-AM 9th and 10th editions cancer diagnosis codes

C00–C96 Malignant neoplasms (except C44 Other malignant neoplasms of skin)

Z85 Personal history of malignant neoplasm

Appendix 4: Principal diagnosis codes for numerator (CHBOI 4a)

Note: If no readmission interval is specified, then the default readmission interval is the readmission interval for the indicator, which is 30 days.

Principal diagnosis (ICD10-AM 9 th Ed)	Readmission interval (if shorter than 30 days)
A04.7 - Enterocolitis due to <i>Clostridium difficile</i>	
A04.8 - Other specified bacterial intestinal infections	0 - 7 days
A04.9 - Bacterial intestinal infection, unspecified	0 - 7 days
A08.0 - Rotaviral enteritis	0 - 7 days
A08.1 - Acute gastroenteropathy due to Norwalk agent	0 - 7 days
A08.2 - Adenoviral enteritis	0 - 7 days
A08.3 - Other viral enteritis	0 - 7 days
A08.4 - Viral intestinal infection, unspecified	0 - 7 days
A08.5 - Other specified intestinal infections	0 - 7 days
A09.0 - Other gastroenteritis and colitis of infectious origin	0 - 7 days
A09.9 - Gastroenteritis and colitis of unspecified origin	0 - 7 days
A40.0 - Sepsis due to streptococcus, group A	0 - 7 days
A40.1 - Sepsis due to streptococcus, group B	0 - 7 days
A40.2 - Sepsis due to streptococcus, group D	0 - 7 days
A40.3 - Sepsis due to <i>Streptococcus pneumoniae</i>	0 - 7 days
A40.8 - Other streptococcal sepsis	0 - 7 days
A40.9 - Streptococcal sepsis, unspecified	0 - 7 days
A41.0 - Sepsis due to <i>Staphylococcus aureus</i>	0 - 7 days
A41.1 - Sepsis due to other specified staphylococcus	0 - 7 days
A41.2 - Sepsis due to unspecified staphylococcus	0 - 7 days
A41.3 - Sepsis due to <i>Haemophilus influenzae</i>	0 - 7 days
A41.4 - Sepsis due to anaerobes	0 - 7 days
A41.50 - Sepsis due to unspecified Gram-negative organisms	0 - 7 days
A41.51 - Sepsis due to <i>Escherichia coli</i> [E. Coli]	0 - 7 days
A41.52 - Sepsis due to <i>Pseudomonas</i>	0 - 7 days
A41.58 - Sepsis due to other Gram-negative organisms	0 - 7 days
A41.8 - Other specified sepsis	0 - 7 days
A41.9 - Sepsis, unspecified	0 - 7 days
A49.0 - Staphylococcal infection, unspecified site	0 - 7 days
A49.1 - Streptococcal infection, unspecified site	0 - 7 days
A49.1 - Streptococcal infection, unspecified site	0 - 7 days
A49.2 - <i>Haemophilus influenzae</i> infection, unspecified site	0 - 7 days
A49.3 - <i>Mycoplasma</i> infection, unspecified site	0 - 7 days
A49.8 - Other bacterial infections of unspecified site	0 - 7 days

Principal diagnosis (ICD10-AM 9 th Ed)	Readmission interval (if shorter than 30 days)
A49.9 - Bacterial infection, unspecified	0 - 7 days
D50.0 - Iron deficiency anaemia secondary to blood loss (chronic)	0 - 7 days
D50.8 - Other iron deficiency anaemias	0 - 7 days
D50.9 - Iron deficiency anaemia, unspecified	0 - 7 days
D62 - Acute posthaemorrhagic anaemia	0 - 7 days
D64.8 - Other specified anaemias	0 - 7 days
D64.9 - Anaemia, unspecified	0 - 7 days
D68.3 - Haemorrhagic disorder due to circulating anticoagulants	
E10.2 - Type 1 diabetes mellitus with kidney complication	0 - 7 days
E10.11 - Type 1 diabetes mellitus with ketoacidosis, without coma	0 - 7 days
E10.12 - Type 1 diabetes mellitus with ketoacidosis, with coma	0 - 7 days
E10.13 - Type 1 diabetes mellitus with lactic acidosis, without coma	0 - 7 days
E10.14 - Type 1 diabetes mellitus with lactic acidosis, with coma	0 - 7 days
E10.15 - Type 1 diabetes mellitus with ketoacidosis, with lactic acidosis, without coma	0 - 7 days
E10.16 - Type 1 diabetes mellitus with ketoacidosis, with lactic acidosis, with coma	0 - 7 days
E10.21 - Type 1 diabetes mellitus with incipient diabetic nephropathy	0 - 7 days
E10.22 - Type 1 diabetes mellitus with established diabetic nephropathy	0 - 7 days
E10.29 - Type 1 diabetes mellitus with other specified kidney complication	0 - 7 days
E10.31 - Type 1 diabetes mellitus with background retinopathy	0 - 7 days
E10.32 - Type 1 diabetes mellitus with preproliferative retinopathy	0 - 7 days
E10.33 - Type 1 diabetes mellitus with proliferative retinopathy	0 - 7 days
E10.34 - Type 1 diabetes mellitus with other retinopathy	0 - 7 days
E10.35 - Type 1 diabetes mellitus with advanced ophthalmic disease	0 - 7 days
E10.36 - Type 1 diabetes mellitus with diabetic cataract	0 - 7 days
E10.39 - Type 1 diabetes mellitus with other specified ophthalmic complication	0 - 7 days
E10.40 - Type 1 diabetes mellitus with unspecified neuropathy	0 - 7 days
E10.41 - Type 1 diabetes mellitus with diabetic mononeuropathy	0 - 7 days
E10.42 - Type 1 diabetes mellitus with diabetic polyneuropathy	0 - 7 days
E10.43 - Type 1 diabetes mellitus with diabetic autonomic neuropathy	0 - 7 days
E10.49 - Type 1 diabetes mellitus with other specified neurological complication	0 - 7 days
E10.51 - Type 1 diabetes mellitus with peripheral angiopathy, without gangrene	0 - 7 days
E10.52 - Type 1 diabetes mellitus with peripheral angiopathy, with gangrene	0 - 7 days
E10.53 - Type 1 diabetes mellitus with diabetic cardiomyopathy	0 - 7 days
E10.61 - Type 1 diabetes mellitus with specified diabetic musculoskeletal and connective tissue complication	0 - 7 days
E10.62 - Type 1 diabetes mellitus with specified skin and subcutaneous tissue complication	0 - 7 days
E10.63 - Type 1 diabetes mellitus with specified periodontal complication	0 - 7 days
E10.64 - Type 1 diabetes mellitus with hypoglycaemia	0 - 7 days
E10.65 - Type 1 diabetes mellitus with poor control	0 - 7 days
E10.69 - Type 1 diabetes mellitus with other specified complication	0 - 7 days
E10.71 - Type 1 diabetes mellitus with multiple microvascular and other specified nonvascular complications	0 - 7 days

Principal diagnosis (ICD10-AM 9 th Ed)	Readmission interval (if shorter than 30 days)
E10.73 - Type 1 diabetes mellitus with foot ulcer due to multiple causes	0 - 7 days
E10.8 - Type 1 diabetes mellitus with unspecified complication	0 - 7 days
E10.9 - Type 1 diabetes mellitus without complication	0 - 7 days
E11.1 - Type 2 diabetes mellitus with acidosis	0 - 7 days
E11.2 - Type 2 diabetes mellitus with kidney complication	0 - 7 days
E11.11 - Type 2 diabetes mellitus with ketoacidosis, without coma	0 - 7 days
E11.12 - Type 2 diabetes mellitus with ketoacidosis, with coma	0 - 7 days
E11.13 - Type 2 diabetes mellitus with lactic acidosis, without coma	0 - 7 days
E11.14 - Type 2 diabetes mellitus with lactic acidosis, with coma	0 - 7 days
E11.15 - Type 2 diabetes mellitus with ketoacidosis, with lactic acidosis, without coma	0 - 7 days
E11.16 - Type 2 diabetes mellitus with ketoacidosis, with lactic acidosis, with coma	0 - 7 days
E11.21 - Type 2 diabetes mellitus with incipient diabetic nephropathy	0 - 7 days
E11.22 - Type 2 diabetes mellitus with established diabetic nephropathy	0 - 7 days
E11.29 - Type 2 diabetes mellitus with other specified kidney complication	0 - 7 days
E11.31 - Type 2 diabetes mellitus with background retinopathy	0 - 7 days
E11.32 - Type 2 diabetes mellitus with preproliferative retinopathy	0 - 7 days
E11.33 - Type 2 diabetes mellitus with proliferative retinopathy	0 - 7 days
E11.34 - Type 2 diabetes mellitus with other retinopathy	0 - 7 days
E11.35 - Type 2 diabetes mellitus with advanced ophthalmic disease	0 - 7 days
E11.36 - Type 2 diabetes mellitus with diabetic cataract	0 - 7 days
E11.39 - Type 2 diabetes mellitus with other specified ophthalmic complication	0 - 7 days
E11.40 - Type 2 diabetes mellitus with unspecified neuropathy	0 - 7 days
E11.41 - Type 2 diabetes mellitus with diabetic mononeuropathy	0 - 7 days
E11.42 - Type 2 diabetes mellitus with diabetic polyneuropathy	0 - 7 days
E11.43 - Type 2 diabetes mellitus with diabetic autonomic neuropathy	0 - 7 days
E11.49 - Type 2 diabetes mellitus with other specified neurological complication	0 - 7 days
E11.51 - Type 2 diabetes mellitus with peripheral angiopathy, without gangrene	0 - 7 days
E11.52 - Type 2 diabetes mellitus with peripheral angiopathy, with gangrene	0 - 7 days
E11.53 - Type 2 diabetes mellitus with diabetic cardiomyopathy	0 - 7 days
E11.61 - Type 2 diabetes mellitus with specified diabetic musculoskeletal and connective tissue complication	0 - 7 days
E11.62 - Type 2 diabetes mellitus with specified skin and subcutaneous tissue complication	0 - 7 days
E11.63 - Type 2 diabetes mellitus with specified periodontal complication	0 - 7 days
E11.64 - Type 2 diabetes mellitus with hypoglycaemia	0 - 7 days
E11.65 - Type 2 diabetes mellitus with poor control	0 - 7 days
E11.69 - Type 2 diabetes mellitus with other specified complication	0 - 7 days
E11.71 - Type 2 diabetes mellitus with multiple microvascular and other specified nonvascular complications	0 - 7 days
E11.72 - Type 2 diabetes mellitus with features of insulin resistance	0 - 7 days
E11.73 - Type 2 diabetes mellitus with foot ulcer due to multiple causes	0 - 7 days
E11.8 - Type 2 diabetes mellitus with unspecified complication	0 - 7 days
E11.9 - Type 2 diabetes mellitus without complication	0 - 7 days

Principal diagnosis (ICD10-AM 9 th Ed)	Readmission interval (if shorter than 30 days)
E13.1 - Other specified diabetes mellitus with acidosis	0 - 7 days
E13.2 - Other specified diabetes mellitus with kidney complication	0 - 7 days
E13.11 - Other specified diabetes mellitus with ketoacidosis, without coma	0 - 7 days
E13.12 - Other specified diabetes mellitus with ketoacidosis, with coma	0 - 7 days
E13.13 - Other specified diabetes mellitus with lactic acidosis, without coma	0 - 7 days
E13.14 - Other specified diabetes mellitus with lactic acidosis, with coma	0 - 7 days
E13.15 - Other specified diabetes mellitus with ketoacidosis, with lactic acidosis, without coma	0 - 7 days
E13.16 - Other specified diabetes mellitus with ketoacidosis, with lactic acidosis, with coma	0 - 7 days
E13.21 - Other specified diabetes mellitus with incipient diabetic nephropathy	0 - 7 days
E13.22 - Other specified diabetes mellitus with established diabetic nephropathy	0 - 7 days
E13.29 - Other specified diabetes mellitus with other specified kidney complication	0 - 7 days
E13.31 - Other specified diabetes mellitus with background retinopathy	0 - 7 days
E13.32 - Other specified diabetes mellitus with preproliferative retinopathy	0 - 7 days
E13.33 - Other specified diabetes mellitus with proliferative retinopathy	0 - 7 days
E13.34 - Other specified diabetes mellitus with other retinopathy	0 - 7 days
E13.35 - Other specified diabetes mellitus with advanced ophthalmic disease	0 - 7 days
E13.36 - Other specified diabetes mellitus with diabetic cataract	0 - 7 days
E13.39 - Other specified diabetes mellitus with other specified ophthalmic complication	0 - 7 days
E13.40 - Other specified diabetes mellitus with unspecified neuropathy	0 - 7 days
E13.41 - Other specified diabetes mellitus with diabetic mononeuropathy	0 - 7 days
E13.42 - Other specified diabetes mellitus with diabetic polyneuropathy	0 - 7 days
E13.43 - Other specified diabetes mellitus with diabetic autonomic neuropathy	0 - 7 days
E13.49 - Other specified diabetes mellitus with other specified neurological complication	0 - 7 days
E13.51 - Other specified diabetes mellitus with peripheral angiopathy, without gangrene	0 - 7 days
E13.52 - Other specified diabetes mellitus with peripheral angiopathy, with gangrene	0 - 7 days
E13.53 - Other specified diabetes mellitus with diabetic cardiomyopathy	0 - 7 days
E13.61 - Other specified diabetes mellitus with specified diabetic musculoskeletal and connective tissue complication	0 - 7 days
E13.62 - Other specified diabetes mellitus with specified skin and subcutaneous tissue complication	0 - 7 days
E13.63 - Other specified diabetes mellitus with specified periodontal complication	0 - 7 days
E13.64 - Other specified diabetes mellitus with hypoglycaemia	0 - 7 days
E13.65 - Other specified diabetes mellitus with poor control	0 - 7 days
E13.69 - Other specified diabetes mellitus with other specified complication	0 - 7 days
E13.71 - Other specified diabetes mellitus with multiple microvascular and other specified nonvascular complications	0 - 7 days
E13.72 - Other specified diabetes mellitus with features of insulin resistance	0 - 7 days
E13.73 - Other specified diabetes mellitus with foot ulcer due to multiple causes	0 - 7 days
E13.8 - Other specified diabetes mellitus with unspecified complication	0 - 7 days
E13.9 - Other specified diabetes mellitus without complication	0 - 7 days
E14.1 - Unspecified diabetes mellitus with acidosis	0 - 7 days
E14.2 - Unspecified diabetes mellitus with kidney complication	0 - 7 days

Principal diagnosis (ICD10-AM 9 th Ed)	Readmission interval (if shorter than 30 days)
E14.11 - Unspecified diabetes mellitus with ketoacidosis, without coma	0 - 7 days
E14.12 - Unspecified diabetes mellitus with ketoacidosis, with coma	0 - 7 days
E14.13 - Unspecified diabetes mellitus with lactic acidosis, without coma	0 - 7 days
E14.14 - Unspecified diabetes mellitus with lactic acidosis, with coma	0 - 7 days
E14.15 - Unspecified diabetes mellitus with ketoacidosis, with lactic acidosis, without coma	0 - 7 days
E14.16 - Unspecified diabetes mellitus with ketoacidosis, with lactic acidosis, with coma	0 - 7 days
E14.21 - Unspecified diabetes mellitus with incipient diabetic nephropathy	0 - 7 days
E14.22 - Unspecified diabetes mellitus with established diabetic nephropathy	0 - 7 days
E14.29 - Unspecified diabetes mellitus with other specified kidney complication	0 - 7 days
E14.31 - Unspecified diabetes mellitus with background retinopathy	0 - 7 days
E14.32 - Unspecified diabetes mellitus with preproliferative retinopathy	0 - 7 days
E14.33 - Unspecified diabetes mellitus with proliferative retinopathy	0 - 7 days
E14.34 - Unspecified diabetes mellitus with other retinopathy	0 - 7 days
E14.35 - Unspecified diabetes mellitus with advanced ophthalmic disease	0 - 7 days
E14.36 - Unspecified diabetes mellitus with diabetic cataract	0 - 7 days
E14.39 - Unspecified diabetes mellitus with other specified ophthalmic complication	0 - 7 days
E14.40 - Unspecified diabetes mellitus with unspecified neuropathy	0 - 7 days
E14.41 - Unspecified diabetes mellitus with diabetic mononeuropathy	0 - 7 days
E14.42 - Unspecified diabetes mellitus with diabetic polyneuropathy	0 - 7 days
E14.43 - Unspecified diabetes mellitus with diabetic autonomic neuropathy	0 - 7 days
E14.49 - Unspecified diabetes mellitus with other specified neurological complication	0 - 7 days
E14.51 - Unspecified diabetes mellitus with peripheral angiopathy, without gangrene	0 - 7 days
E14.52 - Unspecified diabetes mellitus with peripheral angiopathy, with gangrene	0 - 7 days
E14.53 - Unspecified diabetes mellitus with diabetic cardiomyopathy	0 - 7 days
E14.61 - Unspecified diabetes mellitus with specified diabetic musculoskeletal and connective tissue complication	0 - 7 days
E14.62 - Unspecified diabetes mellitus with specified skin and subcutaneous tissue complication	0 - 7 days
E14.63 - Unspecified diabetes mellitus with specified periodontal complication	0 - 7 days
E14.64 - Unspecified diabetes mellitus with hypoglycaemia	0 - 7 days
E14.65 - Unspecified diabetes mellitus with poor control	0 - 7 days
E14.69 - Unspecified diabetes mellitus with other specified complication	0 - 7 days
E14.71 - Unspecified diabetes mellitus with multiple microvascular and other specified nonvascular complications	0 - 7 days
E14.72 - Unspecified diabetes mellitus with features of insulin resistance	0 - 7 days
E14.73 - Unspecified diabetes mellitus with foot ulcer due to multiple causes	0 - 7 days
E14.8 - Unspecified diabetes mellitus with unspecified complication	0 - 7 days
E14.9 - Unspecified diabetes mellitus without complication	0 - 7 days
E86 - Volume depletion	0 - 7 days
E87.0 - Hyperosmolality and hypernatraemia	0 - 7 days
E87.1 - Hypo-osmolality and hyponatraemia	0 - 7 days
E87.2 - Acidosis	0 - 7 days
E87.3 - Alkalosis	0 - 7 days

Principal diagnosis (ICD10-AM 9 th Ed)	Readmission interval (if shorter than 30 days)
E87.4 - Mixed disorder of acid-base balance	0 - 7 days
E87.5 - Hyperkalaemia	0 - 7 days
E87.6 - Hypokalaemia	0 - 7 days
E87.7 - Fluid overload	0 - 7 days
F05.0 - Delirium not superimposed on dementia, so described	0 - 7 days
F05.1 - Delirium superimposed on dementia	0 - 7 days
F05.8 - Other delirium	0 - 7 days
F05.9 - Delirium, unspecified	0 - 7 days
G45.0 - Vertebro-basilar artery syndrome	0 - 7 days
G45.1 - Carotid artery syndrome (hemispheric)	0 - 7 days
G45.2 - Multiple and bilateral precerebral artery syndromes	0 - 7 days
G45.3 - Amaurosis fugax	0 - 7 days
G45.4 - Transient global amnesia	0 - 7 days
G45.8 - Other transient cerebral ischaemic attacks and related syndromes	0 - 7 days
G45.9 - Transient cerebral ischaemic attack, unspecified	0 - 7 days
I05.0 - Mitral stenosis	0 - 7 days
I05.1 - Rheumatic mitral insufficiency	0 - 7 days
I05.2 - Mitral stenosis with insufficiency	0 - 7 days
I05.8 - Other mitral valve diseases	0 - 7 days
I05.9 - Mitral valve disease, unspecified	0 - 7 days
I06.0 - Rheumatic aortic stenosis	0 - 7 days
I06.1 - Rheumatic aortic insufficiency	0 - 7 days
I06.2 - Rheumatic aortic stenosis with insufficiency	0 - 7 days
I06.8 - Other rheumatic aortic valve diseases	0 - 7 days
I06.9 - Rheumatic aortic valve disease, unspecified	0 - 7 days
I07.0 - Tricuspid stenosis	0 - 7 days
I07.1 - Tricuspid insufficiency	0 - 7 days
I07.2 - Tricuspid stenosis with insufficiency	0 - 7 days
I07.8 - Other tricuspid valve diseases	0 - 7 days
I07.9 - Tricuspid valve disease, unspecified	0 - 7 days
I08.0 - Disorders of both mitral and aortic valves	0 - 7 days
I08.1 - Disorders of both mitral and tricuspid valves	0 - 7 days
I08.2 - Disorders of both aortic and tricuspid valves	0 - 7 days
I08.3 - Combined disorders of mitral, aortic and tricuspid valves	0 - 7 days
I08.8 - Other multiple valve diseases	0 - 7 days
I08.9 - Multiple valve disease, unspecified	0 - 7 days
I09.0 - Rheumatic myocarditis	0 - 7 days
I09.1 - Rheumatic diseases of endocardium, valve unspecified	0 - 7 days
I09.2 - Chronic rheumatic pericarditis	0 - 7 days
I09.8 - Other specified rheumatic heart diseases	0 - 7 days

Principal diagnosis (ICD10-AM 9 th Ed)	Readmission interval (if shorter than 30 days)
I09.9 - Rheumatic heart disease, unspecified	0 - 7 days
I10 - Essential (primary) hypertension	0 - 7 days
I11.0 - Hypertensive heart disease with (congestive) heart failure	
I11.9 - Hypertensive heart disease without (congestive) heart failure	
I12.0 - Hypertensive kidney disease with kidney failure	0 - 7 days
I13.0 - Hypertensive heart and kidney disease with (congestive) heart failure	
I13.1 - Hypertensive heart and kidney disease with kidney failure	0 - 7 days
I13.2 - Hypertensive heart and kidney disease with both (congestive) heart failure and kidney failure	
I13.9 - Hypertensive heart and kidney disease, unspecified	0 - 7 days
I20.0 - Unstable angina	
I20.1 - Angina pectoris with documented spasm	
I20.8 - Other forms of angina pectoris	
I20.9 - Angina pectoris, unspecified	
I21.0 - Acute transmural myocardial infarction of anterior wall	
I21.1 - Acute transmural myocardial infarction of inferior wall	
I21.2 - Acute transmural myocardial infarction of other sites	
I21.3 - Acute transmural myocardial infarction of unspecified site	
I21.4 - Acute subendocardial myocardial infarction	
I21.9 - Acute myocardial infarction, unspecified	
I22.0 - Subsequent myocardial infarction of anterior wall	
I22.1 - Subsequent myocardial infarction of inferior wall	
I22.8 - Subsequent myocardial infarction of other sites	
I22.9 - Subsequent myocardial infarction of unspecified site	
I23.0 - Haemopericardium as current complication following acute myocardial infarction	
I23.1 - Atrial septal defect as current complication following acute myocardial infarction	
I23.2 - Ventricular septal defect as current complication following acute myocardial infarction	
I23.3 - Rupture of cardiac wall without haemopericardium as current complication following acute myocardial infarction	
I23.4 - Rupture of chordae tendineae as current complication following acute myocardial infarction	
I23.5 - Rupture of papillary muscle as current complication following acute myocardial infarction	
I23.6 - Thrombosis of atrium, auricular appendage, and ventricle as current complications following acute myocardial infarction	
I23.8 - Other current complications following acute myocardial infarction	
I24.0 - Coronary thrombosis not resulting in myocardial infarction	
I24.1 - Dressler's syndrome	
I24.8 - Other forms of acute ischaemic heart disease	
I24.9 - Acute ischaemic heart disease, unspecified	
I25.0 - Atherosclerotic cardiovascular disease, so described	
I25.10 - Atherosclerotic heart disease, of unspecified vessel	
I25.11 - Atherosclerotic heart disease, of native coronary artery	
I25.12 - Atherosclerotic heart disease, of autologous bypass graft	

Principal diagnosis (ICD10-AM 9 th Ed)	Readmission interval (if shorter than 30 days)
I25.13 - Atherosclerotic heart disease, of nonautologous bypass graft	
I25.2 - Old myocardial infarction	
I25.3 - Aneurysm of heart	
I25.4 - Coronary artery aneurysm and dissection	
I25.5 - Ischaemic cardiomyopathy	
I25.6 - Silent myocardial ischaemia	
I25.8 - Other forms of chronic ischaemic heart disease	
I25.9 - Chronic ischaemic heart disease, unspecified	
I26.0 - Pulmonary embolism with mention of acute cor pulmonale	
I26.9 - Pulmonary embolism without mention of acute cor pulmonale	
I27.2 - Other secondary pulmonary hypertension	
I27.9 - Pulmonary heart disease, unspecified	0 - 7 days
I30.0 - Acute nonspecific idiopathic pericarditis	
I30.1 - Infective pericarditis	
I30.8 - Other forms of acute pericarditis	
I30.9 - Acute pericarditis, unspecified	
I31.0 - Chronic adhesive pericarditis	
I31.1 - Chronic constrictive pericarditis	
I31.2 - Haemopericardium, not elsewhere classified	
I31.3 - Pericardial effusion (noninflammatory)	
I31.8 - Other specified diseases of pericardium	
I31.9 - Disease of pericardium, unspecified	
I33.0 - Acute and subacute infective endocarditis	
I33.9 - Acute endocarditis, unspecified	
I34.0 - Mitral (valve) insufficiency	0 - 7 days
I34.1 - Mitral (valve) prolapse	0 - 7 days
I34.2 - Nonrheumatic mitral (valve) stenosis	0 - 7 days
I34.8 - Other nonrheumatic mitral valve disorders	0 - 7 days
I34.9 - Nonrheumatic mitral valve disorder, unspecified	0 - 7 days
I35.0 - Aortic (valve) stenosis	0 - 7 days
I35.1 - Aortic (valve) insufficiency	0 - 7 days
I35.2 - Aortic (valve) stenosis with insufficiency	0 - 7 days
I35.8 - Other aortic valve disorders	0 - 7 days
I35.9 - Aortic valve disorder, unspecified	0 - 7 days
I36.0 - Nonrheumatic tricuspid (valve) stenosis	0 - 7 days
I36.1 - Nonrheumatic tricuspid (valve) insufficiency	0 - 7 days
I36.2 - Nonrheumatic tricuspid (valve) stenosis with insufficiency	0 - 7 days
I36.8 - Other nonrheumatic tricuspid valve disorders	0 - 7 days
I36.9 - Nonrheumatic tricuspid valve disorder, unspecified	0 - 7 days
I37.0 - Pulmonary valve stenosis	0 - 7 days

Principal diagnosis (ICD10-AM 9 th Ed)	Readmission interval (if shorter than 30 days)
I37.1 - Pulmonary valve insufficiency	0 - 7 days
I37.2 - Pulmonary valve stenosis with insufficiency	0 - 7 days
I37.8 - Other pulmonary valve disorders	0 - 7 days
I37.9 - Pulmonary valve disorder, unspecified	0 - 7 days
I38 - Endocarditis, valve unspecified	
I40.0 - Infective myocarditis	
I40.1 - Isolated myocarditis	
I40.8 - Other acute myocarditis	
I40.9 - Acute myocarditis, unspecified	
I42.0 - Dilated cardiomyopathy	0 - 7 days
I44.0 - Atrioventricular block, first degree	
I44.1 - Atrioventricular block, second degree	
I44.2 - Atrioventricular block, complete	
I44.3 - Other and unspecified atrioventricular block	
I44.4 - Left anterior fascicular block	
I44.5 - Left posterior fascicular block	
I44.6 - Other and unspecified fascicular block	
I44.7 - Left bundle-branch block, unspecified	
I45.0 - Right fascicular block	
I45.1 - Other and unspecified right bundle-branch block	
I45.2 - Bifascicular block	
I45.3 - Trifascicular block	
I45.4 - Nonspecific intraventricular block	
I45.5 - Other specified heart block	
I45.8 - Other specified conduction disorders	
I45.9 - Conduction disorder, unspecified	
I46.0 - Cardiac arrest with successful resuscitation	
I46.1 - Sudden cardiac death, so described	
I46.9 - Cardiac arrest, unspecified	
I47.0 - Re-entry ventricular arrhythmia	
I47.1 - Supraventricular tachycardia	
I47.2 - Ventricular tachycardia	
I47.9 - Paroxysmal tachycardia, unspecified	
I48.0 - Paroxysmal atrial fibrillation	
I48.1 - Persistent atrial fibrillation	
I48.2 - Chronic atrial fibrillation	
I48.3 - Typical atrial flutter	
I48.4 - Atypical atrial flutter	
I48.9 - Atrial fibrillation and atrial flutter, unspecified	
I49.0 - Ventricular fibrillation and flutter	

Principal diagnosis (ICD10-AM 9 th Ed)	Readmission interval (if shorter than 30 days)
I49.1 - Atrial premature depolarisation	
I49.2 - Junctional premature depolarisation	
I49.3 - Ventricular premature depolarisation	
I49.4 - Other and unspecified premature depolarisation	
I49.5 - Sick sinus syndrome	
I49.8 - Other specified cardiac arrhythmias	
I49.9 - Cardiac arrhythmia, unspecified	
I50.0 - Congestive heart failure	
I50.1 - Left ventricular failure	
I50.9 - Heart failure, unspecified	
I51.0 - Cardiac septal defect, acquired	
I51.1 - Rupture of chordae tendineae, not elsewhere classified	
I51.2 - Rupture of papillary muscle, not elsewhere classified	
I51.3 - Intracardiac thrombosis, not elsewhere classified	
I51.5 - Myocardial degeneration	
I51.6 - Cardiovascular disease, unspecified	
I51.7 - Cardiomegaly	
I51.8 - Other ill-defined heart diseases	
I51.9 - Heart disease, unspecified	
I60.0 - Subarachnoid haemorrhage from carotid siphon and bifurcation	
I60.1 - Subarachnoid haemorrhage from middle cerebral artery	
I60.2 - Subarachnoid haemorrhage from anterior communicating artery	
I60.3 - Subarachnoid haemorrhage from posterior communicating artery	
I60.4 - Subarachnoid haemorrhage from basilar artery	
I60.5 - Subarachnoid haemorrhage from vertebral artery	
I60.6 - Subarachnoid haemorrhage from other intracranial arteries	
I60.7 - Subarachnoid haemorrhage from intracranial artery, unspecified	
I60.8 - Other subarachnoid haemorrhage	
I60.9 - Subarachnoid haemorrhage, unspecified	
I61.0 - Intracerebral haemorrhage in hemisphere, subcortical	0 - 7 days
I61.1 - Intracerebral haemorrhage in hemisphere, cortical	0 - 7 days
I61.2 - Intracerebral haemorrhage in hemisphere, unspecified	0 - 7 days
I61.3 - Intracerebral haemorrhage in brain stem	0 - 7 days
I61.4 - Intracerebral haemorrhage in cerebellum	0 - 7 days
I61.5 - Intracerebral haemorrhage, intraventricular	0 - 7 days
I61.6 - Intracerebral haemorrhage, multiple localised	0 - 7 days
I61.8 - Other intracerebral haemorrhage	0 - 7 days
I61.9 - Intracerebral haemorrhage, unspecified	0 - 7 days
I62.0 - Subdural haemorrhage (acute)(nontraumatic)	
I62.1 - Nontraumatic extradural haemorrhage	

Principal diagnosis (ICD10-AM 9 th Ed)	Readmission interval (if shorter than 30 days)
I62.9 - Intracranial haemorrhage (nontraumatic), unspecified	
I63.0 - Cerebral infarction due to thrombosis of precerebral arteries	0 - 7 days
I63.1 - Cerebral infarction due to embolism of precerebral arteries	0 - 7 days
I63.2 - Cerebral infarction due to unspecified occlusion or stenosis of precerebral arteries	0 - 7 days
I63.3 - Cerebral infarction due to thrombosis of cerebral arteries	0 - 7 days
I63.4 - Cerebral infarction due to embolism of cerebral arteries	0 - 7 days
I63.5 - Cerebral infarction due to unspecified occlusion or stenosis of cerebral arteries	0 - 7 days
I63.6 - Cerebral infarction due to cerebral venous thrombosis, nonpyogenic	0 - 7 days
I63.8 - Other cerebral infarction	0 - 7 days
I63.9 - Cerebral infarction, unspecified	0 - 7 days
I64 - Stroke, not specified as haemorrhage or infarction	0 - 7 days
I65.0 - Occlusion and stenosis of vertebral artery	0 - 7 days
I65.1 - Occlusion and stenosis of basilar artery	0 - 7 days
I65.2 - Occlusion and stenosis of carotid artery	0 - 7 days
I65.3 - Occlusion and stenosis of multiple and bilateral precerebral arteries	0 - 7 days
I65.8 - Occlusion and stenosis of other precerebral artery	0 - 7 days
I65.9 - Occlusion and stenosis of unspecified precerebral artery	0 - 7 days
I66.0 - Occlusion and stenosis of middle cerebral artery	0 - 7 days
I66.1 - Occlusion and stenosis of anterior cerebral artery	0 - 7 days
I66.2 - Occlusion and stenosis of posterior cerebral artery	0 - 7 days
I66.3 - Occlusion and stenosis of cerebellar arteries	0 - 7 days
I66.4 - Occlusion and stenosis of multiple and bilateral cerebral arteries	0 - 7 days
I66.8 - Occlusion and stenosis of other cerebral artery	0 - 7 days
I66.9 - Occlusion and stenosis of unspecified cerebral artery	0 - 7 days
I67.4 - Hypertensive encephalopathy	0 - 7 days
I69.0 - Sequelae of subarachnoid haemorrhage	0 - 7 days
I69.1 - Sequelae of intracerebral haemorrhage	0 - 7 days
I69.2 - Sequelae of other nontraumatic intracranial haemorrhage	0 - 7 days
I69.3 - Sequelae of cerebral infarction	0 - 7 days
I69.4 - Sequelae of stroke, not specified as haemorrhage or infarction	0 - 7 days
I69.8 - Sequelae of other and unspecified cerebrovascular diseases	0 - 7 days
I74.0 - Embolism and thrombosis of abdominal aorta	0 - 7 days
I74.1 - Embolism and thrombosis of other and unspecified parts of aorta	0 - 7 days
I74.2 - Embolism and thrombosis of arteries of upper extremities	0 - 7 days
I74.3 - Embolism and thrombosis of arteries of lower extremities	0 - 7 days
I74.4 - Embolism and thrombosis of arteries of extremities, unspecified	0 - 7 days
I74.5 - Embolism and thrombosis of iliac artery	0 - 7 days
I74.8 - Embolism and thrombosis of other arteries	0 - 7 days
I74.9 - Embolism and thrombosis of unspecified artery	0 - 7 days
I80.0 - Phlebitis and thrombophlebitis of superficial vessels of lower extremities	0 - 7 days

Principal diagnosis (ICD10-AM 9 th Ed)	Readmission interval (if shorter than 30 days)
I80.1 - Phlebitis and thrombophlebitis of femoral vein	0 - 7 days
I80.2 - Phlebitis and thrombophlebitis of other deep vessels of lower extremities	
I80.3 - Phlebitis and thrombophlebitis of lower extremities, unspecified	0 - 7 days
I80.8 - Phlebitis and thrombophlebitis of other sites	0 - 7 days
I80.9 - Phlebitis and thrombophlebitis of unspecified site	0 - 7 days
I82.2 - Embolism and thrombosis of vena cava	0 - 7 days
I82.3 - Embolism and thrombosis of renal vein	0 - 7 days
I82.8 - Embolism and thrombosis of other specified veins	0 - 7 days
I82.9 - Embolism and thrombosis of unspecified vein	0 - 7 days
I95.0 - Idiopathic hypotension	
I95.1 - Orthostatic hypotension	
I95.2 - Hypotension due to drugs	
I95.8 - Other hypotension	
I95.9 - Hypotension, unspecified	
I97.8 - Other postprocedural disorders of circulatory system, not elsewhere classified	
I97.9 - Postprocedural disorder of circulatory system, unspecified	
J13 - Pneumonia due to Streptococcus pneumoniae	0 - 7 days
J14 - Pneumonia due to Haemophilus influenzae	0 - 7 days
J15.0 - Pneumonia due to Klebsiella pneumoniae	0 - 7 days
J15.1 - Pneumonia due to Pseudomonas	0 - 7 days
J15.2 - Pneumonia due to staphylococcus	0 - 7 days
J15.3 - Pneumonia due to streptococcus, group B	0 - 7 days
J15.4 - Pneumonia due to other streptococci	0 - 7 days
J15.5 - Pneumonia due to Escherichia coli	0 - 7 days
J15.6 - Pneumonia due to other Gram-negative bacteria	0 - 7 days
J15.7 - Pneumonia due to Mycoplasma pneumoniae	0 - 7 days
J15.8 - Other bacterial pneumonia	0 - 7 days
J15.9 - Bacterial pneumonia, unspecified	0 - 7 days
J16.0 - Chlamydial pneumonia	0 - 7 days
J16.8 - Pneumonia due to other specified infectious organisms	0 - 7 days
J18.0 - Bronchopneumonia, unspecified	0 - 7 days
J18.1 - Lobar pneumonia, unspecified	0 - 7 days
J18.2 - Hypostatic pneumonia, unspecified	0 - 7 days
J18.8 - Other pneumonia, organism unspecified	0 - 7 days
J18.9 - Pneumonia, unspecified	0 - 7 days
J20.0 - Acute bronchitis due to Mycoplasma pneumoniae	0 - 7 days
J20.1 - Acute bronchitis due to Haemophilus influenzae	0 - 7 days
J20.2 - Acute bronchitis due to streptococcus	0 - 7 days
J22 - Unspecified acute lower respiratory infection	0 - 7 days
J44.0 - Chronic obstructive pulmonary disease with acute lower respiratory infection	0 - 7 days

Principal diagnosis (ICD10-AM 9 th Ed)	Readmission interval (if shorter than 30 days)
J44.1 - Chronic obstructive pulmonary disease with acute exacerbation, unspecified	0 - 7 days
J69.0 - Pneumonitis due to food and vomit	0 - 7 days
J69.1 - Pneumonitis due to oils and essences	0 - 7 days
J69.8 - Pneumonitis due to other solids and liquids	0 - 7 days
J81 - Pulmonary oedema	
J90 - Pleural effusion, not elsewhere classified	0 - 7 days
J94.2 - Haemothorax	0 - 7 days
J96.0 - Acute respiratory failure	0 - 7 days
J96.1 - Chronic respiratory failure	0 - 7 days
J96.9 - Respiratory failure, unspecified	0 - 7 days
J96.10 - Chronic respiratory failure, type I	0 - 7 days
J96.11 - Chronic respiratory failure, type II	0 - 7 days
J96.19 - Chronic respiratory failure, type unspecified	0 - 7 days
J96.90 - Respiratory failure unspecified, type I	0 - 7 days
J96.91 - Respiratory failure unspecified, type II	0 - 7 days
J96.99 - Respiratory failure unspecified, type unspecified	0 - 7 days
J98.1 - Pulmonary collapse	0 - 7 days
K25.0 - Gastric ulcer, acute with haemorrhage	
K25.4 - Gastric ulcer, chronic or unspecified with haemorrhage	
K25.5 - Gastric ulcer, chronic or unspecified with perforation	
K26.0 - Duodenal ulcer, acute with haemorrhage	
K26.2 - Duodenal ulcer, acute with both haemorrhage and perforation	
K26.4 - Duodenal ulcer, chronic or unspecified with haemorrhage	
K26.6 - Duodenal ulcer, chronic or unspecified with both haemorrhage and perforation	
K27.0 - Peptic ulcer, acute with haemorrhage	
K27.2 - Peptic ulcer, acute with both haemorrhage and perforation	
K27.4 - Peptic ulcer, chronic or unspecified with haemorrhage	
K27.6 - Peptic ulcer, chronic or unspecified with both haemorrhage and perforation	
K28.0 - Gastrojejunal ulcer, acute with haemorrhage	
K28.2 - Gastrojejunal ulcer, acute with both haemorrhage and perforation	
K28.4 - Gastrojejunal ulcer, chronic or unspecified with haemorrhage	
K28.6 - Gastrojejunal ulcer, chronic or unspecified with both haemorrhage and perforation	
K29.0 - Acute haemorrhagic gastritis	
K31.82 - Angiodysplasia of stomach and duodenum with haemorrhage	
K55.22 - Angiodysplasia of colon with haemorrhage	
K59.0 - Constipation	
K92.0 - Haematemesis	
K92.1 - Melaena	
K92.2 - Gastrointestinal haemorrhage, unspecified	
L03.12 - Cellulitis of upper limb	0 - 7 days

Principal diagnosis (ICD10-AM 9 th Ed)	Readmission interval (if shorter than 30 days)
L03.13 - Cellulitis of lower limb	0 - 7 days
L89.0 - Pressure injury, stage I	0 - 7 days
L89.1 - Pressure injury, stage II	0 - 7 days
L89.2 - Pressure injury, stage III	0 - 7 days
L89.3 - Pressure injury, stage IV	0 - 7 days
L89.4 - Pressure injury, unstageable, so stated	0 - 7 days
L89.5 - Suspected deep tissue injury, depth unknown, so stated	0 - 7 days
L89.6 - Suspected deep tissue injury, depth unknown, so stated, other site of lower extremity (excluding heel and toe)	0 - 7 days
L89.7 - Suspected deep tissue injury, depth unknown, so stated, other site of lower extremity (excluding heel and toe)	0 - 7 days
L89.8 - Suspected deep tissue injury, depth unknown, so stated, other site of lower extremity (excluding heel and toe)	0 - 7 days
L89.9 - Pressure injury, unspecified stage	0 - 7 days
L89.10 - Pressure injury, stage II, site unspecified	0 - 7 days
L89.11 - Pressure injury, stage II, head	0 - 7 days
L89.12 - Pressure injury, stage II, upper extremity	0 - 7 days
L89.13 - Pressure injury, stage II, upper back	0 - 7 days
L89.14 - Pressure injury, stage II, lower back	0 - 7 days
L89.15 - Pressure injury, stage II, ischium	0 - 7 days
L89.16 - Pressure injury, stage II, trochanter	0 - 7 days
L89.17 - Pressure injury, stage II, heel	0 - 7 days
L89.18 - Pressure injury, stage II, toe	0 - 7 days
L89.19 - Pressure injury, stage II, other site of lower extremity (excluding heel and toe)	0 - 7 days
L89.20 - Pressure injury, stage III, site unspecified	0 - 7 days
L89.21 - Pressure injury, stage III, head	0 - 7 days
L89.22 - Pressure injury, stage III, upper extremity	0 - 7 days
L89.23 - Pressure injury, stage III, upper back	0 - 7 days
L89.24 - Pressure injury, stage III, lower back	0 - 7 days
L89.25 - Pressure injury, stage III, ischium	0 - 7 days
L89.26 - Pressure injury, stage III, trochanter	0 - 7 days
L89.27 - Pressure injury, stage III, heel	0 - 7 days
L89.28 - Pressure injury, stage III, toe	0 - 7 days
L89.29 - Pressure injury, stage III, other site of lower extremity (excluding heel and toe)	0 - 7 days
L89.30 - Pressure injury, stage IV, site unspecified	0 - 7 days
L89.31 - Pressure injury, stage IV, head	0 - 7 days
L89.32 - Pressure injury, stage IV, upper extremity	0 - 7 days
L89.33 - Pressure injury, stage IV, upper back	0 - 7 days
L89.34 - Pressure injury, stage IV, lower back	0 - 7 days
L89.35 - Pressure injury, stage IV, ischium	0 - 7 days
L89.36 - Pressure injury, stage IV, trochanter	0 - 7 days
L89.37 - Pressure injury, stage IV, heel	0 - 7 days

Principal diagnosis (ICD10-AM 9 th Ed)	Readmission interval (if shorter than 30 days)
L89.38 - Pressure injury, stage IV, toe	0 - 7 days
L89.39 - Pressure injury, stage IV, other site of lower extremity (excluding heel and toe)	0 - 7 days
L89.40 - Pressure injury, unstageable, so stated, site unspecified	0 - 7 days
L89.41 - Pressure injury, unstageable, so stated, head	0 - 7 days
L89.42 - Pressure injury, unstageable, so stated, upper extremity	0 - 7 days
L89.43 - Pressure injury, unstageable, so stated, upper back	0 - 7 days
L89.44 - Pressure injury, unstageable, so stated, lower back	0 - 7 days
L89.45 - Pressure injury, unstageable, so stated, ischium	0 - 7 days
L89.46 - Pressure injury, unstageable, so stated, trochanter	0 - 7 days
L89.47 - Pressure injury, unstageable, so stated, heel	0 - 7 days
L89.48 - Pressure injury, unstageable, so stated, toe	0 - 7 days
L89.49 - Pressure injury, unstageable, so stated, other site of lower extremity (excluding heel and toe)	0 - 7 days
L89.50 - Suspected deep tissue injury, depth unknown, so stated, site unspecified	0 - 7 days
L89.51 - Suspected deep tissue injury, depth unknown, so stated, head	0 - 7 days
L89.52 - Suspected deep tissue injury, depth unknown, so stated, upper extremity	0 - 7 days
L89.53 - Suspected deep tissue injury, depth unknown, so stated, upper back	0 - 7 days
L89.54 - Suspected deep tissue injury, depth unknown, so stated, lower back	0 - 7 days
L89.55 - Suspected deep tissue injury, depth unknown, so stated, ischium	0 - 7 days
L89.56 - Suspected deep tissue injury, depth unknown, so stated, trochanter	0 - 7 days
L89.57 - Suspected deep tissue injury, depth unknown, so stated, heel	0 - 7 days
L89.58 - Suspected deep tissue injury, depth unknown, so stated, toe	0 - 7 days
L89.59 - Suspected deep tissue injury, depth unknown, so stated, other site of lower extremity (excluding heel and toe)	0 - 7 days
L89.90 - Pressure injury, unspecified stage, site unspecified	0 - 7 days
L89.91 - Pressure injury, unspecified stage, head	0 - 7 days
L89.92 - Pressure injury, unspecified stage, upper extremity	0 - 7 days
L89.93 - Pressure injury, unspecified stage, upper back	0 - 7 days
L89.94 - Pressure injury, unspecified stage, lower back	0 - 7 days
L89.95 - Pressure injury, unspecified stage, ischium	0 - 7 days
L89.96 - Pressure injury, unspecified stage, trochanter	0 - 7 days
L89.97 - Pressure injury, unspecified stage, heel	0 - 7 days
L89.98 - Pressure injury, unspecified stage, toe	0 - 7 days
L89.99 - Pressure injury, unspecified stage, other site of lower extremity (excluding heel and toe)	0 - 7 days
N00.0 - Acute nephritic syndrome, minor glomerular abnormality	0 - 7 days
N00.1 - Acute nephritic syndrome, focal and segmental glomerular lesions	0 - 7 days
N00.2 - Acute nephritic syndrome, diffuse membranous glomerulonephritis	0 - 7 days
N00.3 - Acute nephritic syndrome, diffuse mesangial proliferative glomerulonephritis	0 - 7 days
N00.4 - Acute nephritic syndrome, diffuse endocapillary proliferative glomerulonephritis	0 - 7 days
N00.5 - Acute nephritic syndrome, diffuse mesangiocapillary glomerulonephritis	0 - 7 days
N00.6 - Acute nephritic syndrome, dense deposit disease	0 - 7 days
N00.7 - Acute nephritic syndrome, diffuse crescentic glomerulonephritis	0 - 7 days

Principal diagnosis (ICD10-AM 9 th Ed)	Readmission interval (if shorter than 30 days)
N00.8 - Acute nephritic syndrome, other	0 - 7 days
N00.9 - Acute nephritic syndrome, unspecified	0 - 7 days
N02.8 - Recurrent and persistent haematuria, other	0 - 7 days
N02.9 - Recurrent and persistent haematuria, unspecified	0 - 7 days
N17.0 - Acute kidney failure with tubular necrosis	
N17.1 - Acute kidney failure with acute cortical necrosis	
N17.2 - Acute kidney failure with medullary necrosis	
N17.8 - Other acute kidney failure	
N17.9 - Acute kidney failure, unspecified	
N19 - Unspecified kidney failure	0 - 7 days
N30.0 - Acute cystitis	0 - 7 days
N30.3 - Trigonitis	0 - 7 days
N30.8 - Other cystitis	0 - 7 days
N30.9 - Cystitis, unspecified	0 - 7 days
N35.0 - Post traumatic urethral stricture	0 - 7 days
N35.1 - Postinfective urethral stricture, not elsewhere classified	0 - 7 days
N35.8 - Other urethral stricture	0 - 7 days
N35.9 - Urethral stricture, unspecified	0 - 7 days
N39.0 - Urinary tract infection, site not specified	0 - 7 days
N39.4 - Other specified urinary incontinence	0 - 7 days
N99.0 - Postprocedural kidney failure	0 - 7 days
N99.1 - Postprocedural urethral stricture	0 - 7 days
N99.8 - Other postprocedural disorders of genitourinary system	0 - 7 days
N99.9 - Postprocedural disorder of genitourinary system, unspecified	0 - 7 days
R00.0 - Tachycardia, unspecified	
R00.1 - Bradycardia, unspecified	
R00.2 - Palpitations	
R00.8 - Other and unspecified abnormalities of heart beat	
R04.0 - Epistaxis	0 - 7 days
R04.1 - Haemorrhage from throat	0 - 7 days
R04.2 - Haemoptysis	0 - 7 days
R07.3 - Other chest pain	0 - 7 days
R07.4 - Chest pain, unspecified	0 - 7 days
R11 - Nausea and vomiting	0 - 7 days
R18 - Ascites	0 - 7 days
R31 - Unspecified haematuria	0 - 7 days
R33 - Retention of urine	0 - 7 days
R41.0 - Disorientation, unspecified	0 - 7 days
R42 - Dizziness and giddiness	0 - 7 days
R50.9 - Fever, unspecified	0 - 7 days

Principal diagnosis (ICD10-AM 9 th Ed)	Readmission interval (if shorter than 30 days)
R55 - Syncope and collapse	0 - 7 days
R57.0 - Cardiogenic shock	0 - 7 days
R57.1 - Hypovolaemic shock	0 - 7 days
R57.9 - Shock, unspecified	0 - 7 days
R58 - Haemorrhage, not elsewhere classified	0 - 7 days
S06.1 - Traumatic cerebral oedema	0 - 7 days
S06.30 - Focal cerebral and cerebellar injury, unspecified	0 - 7 days
S06.31 - Focal cerebral contusion	0 - 7 days
S06.32 - Focal cerebellar contusion	0 - 7 days
S06.33 - Focal cerebral haematoma	
S06.34 - Focal cerebellar haematoma	
S06.38 - Other focal cerebral and cerebellar injury	0 - 7 days
S06.4 - Epidural haemorrhage	
S06.5 - Traumatic subdural haemorrhage	0 - 7 days
S06.6 - Traumatic subarachnoid haemorrhage	0 - 7 days
S06.8 - Other intracranial injuries	0 - 7 days
S72.0 - Fracture of neck of femur	0 - 7 days
S72.1 - Pertrochanteric fracture	0 - 7 days
S72.2 - Subtrochanteric fracture	0 - 7 days
S72.3 - Fracture of shaft of femur	0 - 7 days
S72.4 - Fracture of lower end of femur	0 - 7 days
S72.5 - Intercondylar fracture of femur	0 - 7 days
S72.8 - Fractures of other parts of femur	0 - 7 days
T44.4 - Predominantly alpha-adrenoreceptor agonists, not elsewhere classified	
T44.6 - Alpha-adrenoreceptor antagonists, not elsewhere classified	
T44.7 - Beta-adrenoreceptor antagonists, not elsewhere classified	
T45.5 - Anticoagulants	
T46.0 - Cardiac-stimulant glycosides and drugs of similar action	
T46.1 - Calcium-channel blockers	
T46.2 - Other antidysrhythmic drugs, not elsewhere classified	
T46.3 - Coronary vasodilators, not elsewhere classified	
T46.4 - Angiotensin-converting-enzyme inhibitors	
T46.5 - Other antihypertensive drugs, not elsewhere classified	
T46.6 - Antihyperlipidaemic and antiarteriosclerotic drugs	
T46.7 - Peripheral vasodilators	
T46.9 - Other and unspecified agents primarily affecting the cardiovascular system	
T50.0 - Mineralocorticoids and their antagonists	
T50.1 - Loop [high-ceiling] diuretics	
T50.2 - Carbonic-anhydrase inhibitors, benzothiadiazides and other diuretics	
T50.3 - Electrolytic, caloric and water-balance agents	

Principal diagnosis (ICD10-AM 9 th Ed)	Readmission interval (if shorter than 30 days)
T80.1 - Vascular complications following infusion, transfusion and therapeutic injection	0 - 7 days
T80.2 - Infections following infusion, transfusion and therapeutic injection	0 - 7 days
T81.0 - Haemorrhage and haematoma complicating a procedure, not elsewhere classified	
T81.2 - Accidental puncture and laceration during a procedure, not elsewhere classified	0 - 7 days
T81.3 - Disruption of operation wound, not elsewhere classified	0 - 7 days
T81.4 - Wound infection following a procedure, not elsewhere classified	0 - 7 days
T81.5 - Foreign body accidentally left in body cavity or operation wound following a procedure	0 - 7 days
T81.6 - Acute reaction to foreign substance accidentally left during a procedure	0 - 7 days
T81.7 - Vascular complications following a procedure, not elsewhere classified	0 - 7 days
T81.8 - Other complications of procedures, not elsewhere classified	0 - 7 days
T81.9 - Unspecified complication of procedure	0 - 7 days
T82.0 - Mechanical complication of heart valve prosthesis	
T82.1 - Mechanical complication of cardiac electronic device	
T82.2 - Mechanical complication of coronary artery bypass and valve grafts	
T82.5 - Mechanical complication of other cardiac and vascular devices and implants	
T82.6 - Infection and inflammatory reaction due to cardiac valve prosthesis	
T82.7 - Infection and inflammatory reaction due to other cardiac and vascular devices, implants and grafts	
T82.8 - Other specified complications of cardiac and vascular prosthetic devices, implants and grafts	
T82.9 - Unspecified complication of cardiac and vascular prosthetic device, implant and graft	
T83.0 - Mechanical complication of urinary (indwelling) catheter	0 - 7 days
T83.5 - Infection and inflammatory reaction due to prosthetic device, implant and graft in urinary system	0 - 7 days
T88.7 - Unspecified adverse effect of drug or medicament	
T88.8 - Other specified complications of surgical and medical care, not elsewhere classified	
T88.9 - Complication of surgical and medical care, unspecified	
Z45.0 - Adjustment and management of cardiac device	

Principal diagnosis (ICD10-AM 10 th Ed)	Readmission interval (if shorter than 30 days)
A047 - Enterocolitis due to Clostridium difficile	
A048 - Other specified bacterial intestinal infections	0 -7 days
A049 - Bacterial intestinal infection, unspecified	0 -7 days
A080 - Rotaviral enteritis	0 -7 days
A081 - Acute gastroenteropathy due to Norwalk agent	0 -7 days
A082 - Adenoviral enteritis	0 -7 days
A083 - Other viral enteritis	0 -7 days
A084 - Viral intestinal infection, unspecified	0 -7 days
A085 - Other specified intestinal infections	0 -7 days
A090 - Other gastroenteritis and colitis of infectious origin	0 -7 days
A099 - Gastroenteritis and colitis of unspecified origin	0 -7 days
A400 - Sepsis due to streptococcus, group A	0 -7 days
A401 - Sepsis due to streptococcus, group B	0 -7 days
A402 - Sepsis due to streptococcus, group D and enterococcus	0 -7 days
A403 - Sepsis due to Streptococcus pneumoniae	0 -7 days
A408 - Other streptococcal sepsis	0 -7 days
A409 - Streptococcal sepsis, unspecified	0 -7 days
A410 - Sepsis due to Staphylococcus aureus	0 -7 days
A411 - Sepsis due to other specified staphylococcus	0 -7 days
A412 - Sepsis due to unspecified staphylococcus	0 -7 days
A413 - Sepsis due to Haemophilus influenzae	0 -7 days
A414 - Sepsis due to anaerobes	0 -7 days
A4150 - Sepsis due to unspecified Gram-negative organisms	0 -7 days
A4151 - Sepsis due to Escherichia coli [E. Coli]	0 -7 days
A4152 - Sepsis due to Pseudomonas	0 -7 days
A4158 - Sepsis due to other Gram-negative organisms	0 -7 days
A418 - Other specified sepsis	0 -7 days
A419 - Sepsis, unspecified	0 -7 days
A4900 - Staphylococcal infection, unspecified site	0 -7 days
A4901 - Staphylococcus aureus infection, unspecified site	0 -7 days
A491 - Streptococcal and enterococcal infection, unspecified site	0 -7 days
A492 - Haemophilus influenzae infection, unspecified site	0 -7 days
A493 - Mycoplasma infection, unspecified site	0 -7 days
A498 - Other bacterial infections of unspecified site	0 -7 days
A499 - Bacterial infection, unspecified	0 -7 days
D500 - Iron deficiency anaemia secondary to blood loss (chronic)	0 -7 days
D508 - Other iron deficiency anaemias	0 -7 days
D509 - Iron deficiency anaemia, unspecified	0 -7 days
D62 - Acute posthaemorrhagic anaemia	0 -7 days
D648 - Other specified anaemias	0 -7 days

Principal diagnosis (ICD10-AM 10 th Ed)	Readmission interval (if shorter than 30 days)
D649 - Anaemia, unspecified	0 -7 days
D683 - Haemorrhagic disorder due to circulating anticoagulants	
E1002 - Type 1 diabetes mellitus with hyperosmolarity with coma	0 -7 days
E1011 - Type 1 diabetes mellitus with ketoacidosis, without coma	0 -7 days
E1012 - Type 1 diabetes mellitus with ketoacidosis, with coma	0 -7 days
E1013 - Type 1 diabetes mellitus with lactic acidosis, without coma	0 -7 days
E1014 - Type 1 diabetes mellitus with lactic acidosis, with coma	0 -7 days
E1015 - Type 1 diabetes mellitus with ketoacidosis, with lactic acidosis, without coma	0 -7 days
E1016 - Type 1 diabetes mellitus with ketoacidosis, with lactic acidosis, with coma	0 -7 days
E1021 - Type 1 diabetes mellitus with incipient diabetic nephropathy	0 -7 days
E1022 - Type 1 diabetes mellitus with established diabetic nephropathy	0 -7 days
E1029 - Type 1 diabetes mellitus with other specified kidney complication	0 -7 days
E1031 - Type 1 diabetes mellitus with background retinopathy	0 -7 days
E1032 - Type 1 diabetes mellitus with preproliferative retinopathy	0 -7 days
E1033 - Type 1 diabetes mellitus with proliferative retinopathy	0 -7 days
E1034 - Type 1 diabetes mellitus with other retinopathy	0 -7 days
E1035 - Type 1 diabetes mellitus with advanced ophthalmic disease	0 -7 days
E1036 - Type 1 diabetes mellitus with diabetic cataract	0 -7 days
E1039 - Type 1 diabetes mellitus with other specified ophthalmic complication	0 -7 days
E1040 - Type 1 diabetes mellitus with unspecified neuropathy	0 -7 days
E1041 - Type 1 diabetes mellitus with diabetic mononeuropathy	0 -7 days
E1042 - Type 1 diabetes mellitus with diabetic polyneuropathy	0 -7 days
E1043 - Type 1 diabetes mellitus with diabetic autonomic neuropathy	0 -7 days
E1049 - Type 1 diabetes mellitus with other specified neurological complication	0 -7 days
E1051 - Type 1 diabetes mellitus with peripheral angiopathy, without gangrene	0 -7 days
E1052 - Type 1 diabetes mellitus with peripheral angiopathy, with gangrene	0 -7 days
E1053 - Type 1 diabetes mellitus with diabetic cardiomyopathy	0 -7 days
E1061 - Type 1 diabetes mellitus with specified diabetic musculoskeletal and connective tissue complication	0 -7 days
E1062 - Type 1 diabetes mellitus with specified skin and subcutaneous tissue complication	0 -7 days
E1063 - Type 1 diabetes mellitus with specified periodontal complication	0 -7 days
E1064 - Type 1 diabetes mellitus with hypoglycaemia	0 -7 days
E1065 - Type 1 diabetes mellitus with poor control	0 -7 days
E1069 - Type 1 diabetes mellitus with other specified complication	0 -7 days
E1071 - Type 1 diabetes mellitus with multiple microvascular and other specified nonvascular complications	0 -7 days
E1073 - Type 1 diabetes mellitus with foot ulcer due to multiple causes	0 -7 days
E108 - Type 1 diabetes mellitus with unspecified complication	0 -7 days
E109 - Type 1 diabetes mellitus without complication	0 -7 days
E1101 - Type 2 diabetes mellitus with hyperosmolarity without nonketotic hyperglycaemic-hyperosmolar coma [NKHHC]	0 -7 days
E1102 - Type 2 diabetes mellitus with hyperosmolarity with coma	0 -7 days

Principal diagnosis (ICD10-AM 10 th Ed)	Readmission interval (if shorter than 30 days)
E1111 - Type 2 diabetes mellitus with ketoacidosis, without coma	0 -7 days
E1112 - Type 2 diabetes mellitus with ketoacidosis, with coma	0 -7 days
E1113 - Type 2 diabetes mellitus with lactic acidosis, without coma	0 -7 days
E1114 - Type 2 diabetes mellitus with lactic acidosis, with coma	0 -7 days
E1115 - Type 2 diabetes mellitus with ketoacidosis, with lactic acidosis, without coma	0 -7 days
E1116 - Type 2 diabetes mellitus with ketoacidosis, with lactic acidosis, with coma	0 -7 days
E1121 - Type 2 diabetes mellitus with incipient diabetic nephropathy	0 -7 days
E1122 - Type 2 diabetes mellitus with established diabetic nephropathy	0 -7 days
E1129 - Type 2 diabetes mellitus with other specified kidney complication	0 -7 days
E1131 - Type 2 diabetes mellitus with background retinopathy	0 -7 days
E1132 - Type 2 diabetes mellitus with preproliferative retinopathy	0 -7 days
E1133 - Type 2 diabetes mellitus with proliferative retinopathy	0 -7 days
E1134 - Type 2 diabetes mellitus with other retinopathy	0 -7 days
E1135 - Type 2 diabetes mellitus with advanced ophthalmic disease	0 -7 days
E1136 - Type 2 diabetes mellitus with diabetic cataract	0 -7 days
E1139 - Type 2 diabetes mellitus with other specified ophthalmic complication	0 -7 days
E1140 - Type 2 diabetes mellitus with unspecified neuropathy	0 -7 days
E1141 - Type 2 diabetes mellitus with diabetic mononeuropathy	0 -7 days
E1142 - Type 2 diabetes mellitus with diabetic polyneuropathy	0 -7 days
E1143 - Type 2 diabetes mellitus with diabetic autonomic neuropathy	0 -7 days
E1149 - Type 2 diabetes mellitus with other specified neurological complication	0 -7 days
E1151 - Type 2 diabetes mellitus with peripheral angiopathy, without gangrene	0 -7 days
E1152 - Type 2 diabetes mellitus with peripheral angiopathy, with gangrene	0 -7 days
E1153 - Type 2 diabetes mellitus with diabetic cardiomyopathy	0 -7 days
E1161 - Type 2 diabetes mellitus with specified diabetic musculoskeletal and connective tissue complication	0 -7 days
E1162 - Type 2 diabetes mellitus with specified skin and subcutaneous tissue complication	0 -7 days
E1163 - Type 2 diabetes mellitus with specified periodontal complication	0 -7 days
E1164 - Type 2 diabetes mellitus with hypoglycaemia	0 -7 days
E1165 - Type 2 diabetes mellitus with poor control	0 -7 days
E1169 - Type 2 diabetes mellitus with other specified complication	0 -7 days
E1171 - Type 2 diabetes mellitus with multiple microvascular and other specified nonvascular complications	0 -7 days
E1172 - Type 2 diabetes mellitus with features of insulin resistance	0 -7 days
E1173 - Type 2 diabetes mellitus with foot ulcer due to multiple causes	0 -7 days
E118 - Type 2 diabetes mellitus with unspecified complication	0 -7 days
E119 - Type 2 diabetes mellitus without complication	0 -7 days
E1301 - Other specified diabetes mellitus with hyperosmolarity, without nonketotic hyperglycaemic-hyperosmolar coma [NKHHC]	0 -7 days
E1302 - Other specified diabetes mellitus with hyperosmolarity, with coma	0 -7 days
E1311 - Other specified diabetes mellitus with ketoacidosis, without coma	0 -7 days
E1312 - Other specified diabetes mellitus with ketoacidosis, with coma	0 -7 days

Principal diagnosis (ICD10-AM 10 th Ed)	Readmission interval (if shorter than 30 days)
E1313 - Other specified diabetes mellitus with lactic acidosis, without coma	0 -7 days
E1314 - Other specified diabetes mellitus with lactic acidosis, with coma	0 -7 days
E1315 - Other specified diabetes mellitus with ketoacidosis, with lactic acidosis, without coma	0 -7 days
E1316 - Other specified diabetes mellitus with ketoacidosis, with lactic acidosis, with coma	0 -7 days
E1321 - Other specified diabetes mellitus with incipient diabetic nephropathy	0 -7 days
E1322 - Other specified diabetes mellitus with established diabetic nephropathy	0 -7 days
E1329 - Other specified diabetes mellitus with other specified kidney complication	0 -7 days
E1331 - Other specified diabetes mellitus with background retinopathy	0 -7 days
E1332 - Other specified diabetes mellitus with preproliferative retinopathy	0 -7 days
E1333 - Other specified diabetes mellitus with proliferative retinopathy	0 -7 days
E1334 - Other specified diabetes mellitus with other retinopathy	0 -7 days
E1335 - Other specified diabetes mellitus with advanced ophthalmic disease	0 -7 days
E1336 - Other specified diabetes mellitus with diabetic cataract	0 -7 days
E1339 - Other specified diabetes mellitus with other specified ophthalmic complication	0 -7 days
E1340 - Other specified diabetes mellitus with unspecified neuropathy	0 -7 days
E1341 - Other specified diabetes mellitus with diabetic mononeuropathy	0 -7 days
E1342 - Other specified diabetes mellitus with diabetic polyneuropathy	0 -7 days
E1343 - Other specified diabetes mellitus with diabetic autonomic neuropathy	0 -7 days
E1349 - Other specified diabetes mellitus with other specified neurological complication	0 -7 days
E1351 - Other specified diabetes mellitus with peripheral angiopathy, without gangrene	0 -7 days
E1352 - Other specified diabetes mellitus with peripheral angiopathy, with gangrene	0 -7 days
E1353 - Other specified diabetes mellitus with diabetic cardiomyopathy	0 -7 days
E1361 - Other specified diabetes mellitus with specified diabetic musculoskeletal and connective tissue complication	0 -7 days
E1362 - Other specified diabetes mellitus with specified skin and subcutaneous tissue complication	0 -7 days
E1363 - Other specified diabetes mellitus with specified periodontal complication	0 -7 days
E1364 - Other specified diabetes mellitus with hypoglycaemia	0 -7 days
E1365 - Other specified diabetes mellitus with poor control	0 -7 days
E1369 - Other specified diabetes mellitus with other specified complication	0 -7 days
E1371 - Other specified diabetes mellitus with multiple microvascular and other specified nonvascular complications	0 -7 days
E1372 - Other specified diabetes mellitus with features of insulin resistance	0 -7 days
E1373 - Other specified diabetes mellitus with foot ulcer due to multiple causes	0 -7 days
E138 - Other specified diabetes mellitus with unspecified complication	0 -7 days
E139 - Other specified diabetes mellitus without complication	0 -7 days
E1401 - Unspecified diabetes mellitus with hyperosmolarity, without nonketotic hyperglycaemic-hyperosmolar coma [NKHHC]	0 -7 days
E1402 - Unspecified diabetes mellitus with hyperosmolarity, with coma	0 -7 days
E1411 - Unspecified diabetes mellitus with ketoacidosis, without coma	0 -7 days
E1412 - Unspecified diabetes mellitus with ketoacidosis, with coma	0 -7 days
E1413 - Unspecified diabetes mellitus with lactic acidosis, without coma	0 -7 days
E1414 - Unspecified diabetes mellitus with lactic acidosis, with coma	0 -7 days

Principal diagnosis (ICD10-AM 10 th Ed)	Readmission interval (if shorter than 30 days)
E1415 - Unspecified diabetes mellitus with ketoacidosis, with lactic acidosis, without coma	0 -7 days
E1416 - Unspecified diabetes mellitus with ketoacidosis, with lactic acidosis, with coma	0 -7 days
E1421 - Unspecified diabetes mellitus with incipient diabetic nephropathy	0 -7 days
E1422 - Unspecified diabetes mellitus with established diabetic nephropathy	0 -7 days
E1429 - Unspecified diabetes mellitus with other specified kidney complication	0 -7 days
E1431 - Unspecified diabetes mellitus with background retinopathy	0 -7 days
E1432 - Unspecified diabetes mellitus with preproliferative retinopathy	0 -7 days
E1433 - Unspecified diabetes mellitus with proliferative retinopathy	0 -7 days
E1434 - Unspecified diabetes mellitus with other retinopathy	0 -7 days
E1435 - Unspecified diabetes mellitus with advanced ophthalmic disease	0 -7 days
E1436 - Unspecified diabetes mellitus with diabetic cataract	0 -7 days
E1439 - Unspecified diabetes mellitus with other specified ophthalmic complication	0 -7 days
E1440 - Unspecified diabetes mellitus with unspecified neuropathy	0 -7 days
E1441 - Unspecified diabetes mellitus with diabetic mononeuropathy	0 -7 days
E1442 - Unspecified diabetes mellitus with diabetic polyneuropathy	0 -7 days
E1443 - Unspecified diabetes mellitus with diabetic autonomic neuropathy	0 -7 days
E1449 - Unspecified diabetes mellitus with other specified neurological complication	0 -7 days
E1451 - Unspecified diabetes mellitus with peripheral angiopathy, without gangrene	0 -7 days
E1452 - Unspecified diabetes mellitus with peripheral angiopathy, with gangrene	0 -7 days
E1453 - Unspecified diabetes mellitus with diabetic cardiomyopathy	0 -7 days
E1461 - Unspecified diabetes mellitus with specified diabetic musculoskeletal and connective tissue complication	0 -7 days
E1462 - Unspecified diabetes mellitus with specified skin and subcutaneous tissue complication	0 -7 days
E1463 - Unspecified diabetes mellitus with specified periodontal complication	0 -7 days
E1464 - Unspecified diabetes mellitus with hypoglycaemia	0 -7 days
E1465 - Unspecified diabetes mellitus with poor control	0 -7 days
E1469 - Unspecified diabetes mellitus with other specified complication	0 -7 days
E1471 - Unspecified diabetes mellitus with multiple microvascular and other specified nonvascular complications	0 -7 days
E1472 - Unspecified diabetes mellitus with features of insulin resistance	0 -7 days
E1473 - Unspecified diabetes mellitus with foot ulcer due to multiple causes	0 -7 days
E148 - Unspecified diabetes mellitus with unspecified complication	0 -7 days
E149 - Unspecified diabetes mellitus without complication	0 -7 days
E86 - Volume depletion	0 -7 days
E870 - Hyperosmolality and hypernatraemia	0 -7 days
E871 - Hypo-osmolality and hyponatraemia	0 -7 days
E872 - Acidosis	0 -7 days
E873 - Alkalosis	0 -7 days
E874 - Mixed disorder of acid-base balance	0 -7 days
E875 - Hyperkalaemia	0 -7 days
E876 - Hypokalaemia	0 -7 days
E877 - Fluid overload	0 -7 days

Principal diagnosis (ICD10-AM 10 th Ed)	Readmission interval (if shorter than 30 days)
F050 - Delirium not superimposed on dementia, so described	0 -7 days
F051 - Delirium superimposed on dementia	0 -7 days
F058 - Other delirium	0 -7 days
F059 - Delirium, unspecified	0 -7 days
G450 - Vertebro-basilar artery syndrome	0 -7 days
G451 - Carotid artery syndrome (hemispheric)	0 -7 days
G452 - Multiple and bilateral precerebral artery syndromes	0 -7 days
G453 - Amaurosis fugax	0 -7 days
G454 - Transient global amnesia	0 -7 days
G458 - Other transient cerebral ischaemic attacks and related syndromes	0 -7 days
G459 - Transient cerebral ischaemic attack, unspecified	0 -7 days
I050 - Mitral stenosis	0 -7 days
I051 - Rheumatic mitral insufficiency	0 -7 days
I052 - Mitral stenosis with insufficiency	0 -7 days
I058 - Other mitral valve diseases	0 -7 days
I059 - Mitral valve disease, unspecified	0 -7 days
I060 - Rheumatic aortic stenosis	0 -7 days
I061 - Rheumatic aortic insufficiency	0 -7 days
I062 - Rheumatic aortic stenosis with insufficiency	0 -7 days
I068 - Other rheumatic aortic valve diseases	0 -7 days
I069 - Rheumatic aortic valve disease, unspecified	0 -7 days
I070 - Tricuspid stenosis	0 -7 days
I071 - Tricuspid insufficiency	0 -7 days
I072 - Tricuspid stenosis with insufficiency	0 -7 days
I078 - Other tricuspid valve diseases	0 -7 days
I079 - Tricuspid valve disease, unspecified	0 -7 days
I080 - Disorders of both mitral and aortic valves	0 -7 days
I081 - Disorders of both mitral and tricuspid valves	0 -7 days
I082 - Disorders of both aortic and tricuspid valves	0 -7 days
I083 - Combined disorders of mitral, aortic and tricuspid valves	0 -7 days
I088 - Other multiple valve diseases	0 -7 days
I089 - Multiple valve disease, unspecified	0 -7 days
I090 - Rheumatic myocarditis	0 -7 days
I091 - Rheumatic diseases of endocardium, valve unspecified	0 -7 days
I092 - Chronic rheumatic pericarditis	0 -7 days
I098 - Other specified rheumatic heart diseases	0 -7 days
I099 - Rheumatic heart disease, unspecified	0 -7 days
I10 - Essential (primary) hypertension	0 -7 days
I110 - Hypertensive heart disease with (congestive) heart failure	
I119 - Hypertensive heart disease without (congestive) heart failure	

Principal diagnosis (ICD10-AM 10 th Ed)	Readmission interval (if shorter than 30 days)
I120 - Hypertensive kidney disease with kidney failure	0 -7 days
I130 - Hypertensive heart and kidney disease with (congestive) heart failure	
I131 - Hypertensive heart and kidney disease with kidney failure	0 -7 days
I132 - Hypertensive heart and kidney disease with both (congestive) heart failure and kidney failure	
I139 - Hypertensive heart and kidney disease, unspecified	0 -7 days
I200 - Unstable angina	
I201 - Angina pectoris with documented spasm	
I208 - Other forms of angina pectoris	
I209 - Angina pectoris, unspecified	
I210 - Acute transmural myocardial infarction of anterior wall	
I211 - Acute transmural myocardial infarction of inferior wall	
I212 - Acute transmural myocardial infarction of other sites	
I213 - Acute transmural myocardial infarction of unspecified site	
I214 - Acute subendocardial myocardial infarction	
I219 - Acute myocardial infarction, unspecified	
I220 - Subsequent myocardial infarction of anterior wall	
I221 - Subsequent myocardial infarction of inferior wall	
I228 - Subsequent myocardial infarction of other sites	
I229 - Subsequent myocardial infarction of unspecified site	
I230 - Haemopericardium as current complication following acute myocardial infarction	
I231 - Atrial septal defect as current complication following acute myocardial infarction	
I232 - Ventricular septal defect as current complication following acute myocardial infarction	
I233 - Rupture of cardiac wall without haemopericardium as current complication following acute myocardial infarction	
I234 - Rupture of chordae tendineae as current complication following acute myocardial infarction	
I235 - Rupture of papillary muscle as current complication following acute myocardial infarction	
I236 - Thrombosis of atrium, auricular appendage, and ventricle as current complications following acute myocardial infarction	
I238 - Other current complications following acute myocardial infarction	
I240 - Coronary thrombosis not resulting in myocardial infarction	
I241 - Dressler's syndrome	
I248 - Other forms of acute ischaemic heart disease	
I249 - Acute ischaemic heart disease, unspecified	
I250 - Atherosclerotic cardiovascular disease, so described	
I2510 - Atherosclerotic heart disease, of unspecified vessel	
I2511 - Atherosclerotic heart disease, of native coronary artery	
I2512 - Atherosclerotic heart disease, of autologous bypass graft	
I2513 - Atherosclerotic heart disease, of nonautologous bypass graft	
I252 - Old myocardial infarction	
I253 - Aneurysm of heart	
I254 - Coronary artery aneurysm and dissection	
I255 - Ischaemic cardiomyopathy	

Principal diagnosis (ICD10-AM 10 th Ed)	Readmission interval (if shorter than 30 days)
I256 - Silent myocardial ischaemia	
I258 - Other forms of chronic ischaemic heart disease	
I259 - Chronic ischaemic heart disease, unspecified	
I260 - Pulmonary embolism with mention of acute cor pulmonale	
I269 - Pulmonary embolism without mention of acute cor pulmonale	
I272 - Other secondary pulmonary hypertension	
I279 - Pulmonary heart disease, unspecified	0 -7 days
I300 - Acute nonspecific idiopathic pericarditis	
I301 - Infective pericarditis	
I308 - Other forms of acute pericarditis	
I309 - Acute pericarditis, unspecified	
I310 - Chronic adhesive pericarditis	
I311 - Chronic constrictive pericarditis	
I312 - Haemopericardium, not elsewhere classified	
I313 - Pericardial effusion (noninflammatory)	
I318 - Other specified diseases of pericardium	
I319 - Disease of pericardium, unspecified	
I330 - Acute and subacute infective endocarditis	
I339 - Acute endocarditis, unspecified	
I340 - Mitral (valve) insufficiency	0 -7 days
I341 - Mitral (valve) prolapse	0 -7 days
I342 - Nonrheumatic mitral (valve) stenosis	0 -7 days
I348 - Other nonrheumatic mitral valve disorders	0 -7 days
I349 - Nonrheumatic mitral valve disorder, unspecified	0 -7 days
I350 - Aortic (valve) stenosis	0 -7 days
I351 - Aortic (valve) insufficiency	0 -7 days
I352 - Aortic (valve) stenosis with insufficiency	0 -7 days
I358 - Other aortic valve disorders	0 -7 days
I359 - Aortic valve disorder, unspecified	0 -7 days
I360 - Nonrheumatic tricuspid (valve) stenosis	0 -7 days
I361 - Nonrheumatic tricuspid (valve) insufficiency	0 -7 days
I362 - Nonrheumatic tricuspid (valve) stenosis with insufficiency	0 -7 days
I368 - Other nonrheumatic tricuspid valve disorders	0 -7 days
I369 - Nonrheumatic tricuspid valve disorder, unspecified	0 -7 days
I370 - Pulmonary valve stenosis	0 -7 days
I371 - Pulmonary valve insufficiency	0 -7 days
I372 - Pulmonary valve stenosis with insufficiency	0 -7 days
I378 - Other pulmonary valve disorders	0 -7 days
I379 - Pulmonary valve disorder, unspecified	0 -7 days
I38 - Endocarditis, valve unspecified	

Principal diagnosis (ICD10-AM 10 th Ed)	Readmission interval (if shorter than 30 days)
I400 - Infective myocarditis	
I401 - Isolated myocarditis	
I408 - Other acute myocarditis	
I409 - Acute myocarditis, unspecified	
I420 - Dilated cardiomyopathy	0 - 7 days
I440 - Atrioventricular block, first degree	
I441 - Atrioventricular block, second degree	
I442 - Atrioventricular block, complete	
I443 - Other and unspecified atrioventricular block	
I444 - Left anterior fascicular block	
I445 - Left posterior fascicular block	
I446 - Other and unspecified fascicular block	
I447 - Left bundle-branch block, unspecified	
I450 - Right fascicular block	
I451 - Other and unspecified right bundle-branch block	
I452 - Bifascicular block	
I453 - Trifascicular block	
I454 - Nonspecific intraventricular block	
I455 - Other specified heart block	
I458 - Other specified conduction disorders	
I459 - Conduction disorder, unspecified	
I460 - Cardiac arrest with successful resuscitation	
I461 - Sudden cardiac death, so described	
I469 - Cardiac arrest, unspecified	
I470 - Re-entry ventricular arrhythmia	
I471 - Supraventricular tachycardia	
I472 - Ventricular tachycardia	
I479 - Paroxysmal tachycardia, unspecified	
I480 - Paroxysmal atrial fibrillation	
I481 - Persistent atrial fibrillation	
I482 - Chronic atrial fibrillation	
I483 - Typical atrial flutter	
I484 - Atypical atrial flutter	
I489 - Atrial fibrillation and atrial flutter, unspecified	
I490 - Ventricular fibrillation and flutter	
I491 - Atrial premature depolarisation	
I492 - Junctional premature depolarisation	
I493 - Ventricular premature depolarisation	
I494 - Other and unspecified premature depolarisation	
I495 - Sick sinus syndrome	

Principal diagnosis (ICD10-AM 10 th Ed)	Readmission interval (if shorter than 30 days)
I498 - Other specified cardiac arrhythmias	
I499 - Cardiac arrhythmia, unspecified	
I500 - Congestive heart failure	
I501 - Left ventricular failure	
I509 - Heart failure, unspecified	
I510 - Cardiac septal defect, acquired	
I511 - Rupture of chordae tendineae, not elsewhere classified	
I512 - Rupture of papillary muscle, not elsewhere classified	
I513 - Intracardiac thrombosis, not elsewhere classified	
I515 - Myocardial degeneration	
I516 - Cardiovascular disease, unspecified	
I517 - Cardiomegaly	
I518 - Other ill-defined heart diseases	
I519 - Heart disease, unspecified	
I600 - Subarachnoid haemorrhage from carotid siphon and bifurcation	
I601 - Subarachnoid haemorrhage from middle cerebral artery	
I602 - Subarachnoid haemorrhage from anterior communicating artery	
I603 - Subarachnoid haemorrhage from posterior communicating artery	
I604 - Subarachnoid haemorrhage from basilar artery	
I605 - Subarachnoid haemorrhage from vertebral artery	
I606 - Subarachnoid haemorrhage from other intracranial arteries	
I607 - Subarachnoid haemorrhage from intracranial artery, unspecified	
I608 - Other subarachnoid haemorrhage	
I609 - Subarachnoid haemorrhage, unspecified	
I610 - Intracerebral haemorrhage in hemisphere, subcortical	0 -7 days
I611 - Intracerebral haemorrhage in hemisphere, cortical	0 -7 days
I612 - Intracerebral haemorrhage in hemisphere, unspecified	0 -7 days
I613 - Intracerebral haemorrhage in brain stem	0 -7 days
I614 - Intracerebral haemorrhage in cerebellum	0 -7 days
I615 - Intracerebral haemorrhage, intraventricular	0 -7 days
I616 - Intracerebral haemorrhage, multiple localised	0 -7 days
I618 - Other intracerebral haemorrhage	0 -7 days
I619 - Intracerebral haemorrhage, unspecified	0 -7 days
I620 - Subdural haemorrhage (acute)(nontraumatic)	
I621 - Nontraumatic extradural haemorrhage	
I629 - Intracranial haemorrhage (nontraumatic), unspecified	
I630 - Cerebral infarction due to thrombosis of precerebral arteries	0 -7 days
I631 - Cerebral infarction due to embolism of precerebral arteries	0 -7 days
I632 - Cerebral infarction due to unspecified occlusion or stenosis of precerebral arteries	0 -7 days
I633 - Cerebral infarction due to thrombosis of cerebral arteries	0 -7 days

Principal diagnosis (ICD10-AM 10 th Ed)	Readmission interval (if shorter than 30 days)
I634 - Cerebral infarction due to embolism of cerebral arteries	0 -7 days
I635 - Cerebral infarction due to unspecified occlusion or stenosis of cerebral arteries	0 -7 days
I636 - Cerebral infarction due to cerebral venous thrombosis, nonpyogenic	0 -7 days
I638 - Other cerebral infarction	0 -7 days
I639 - Cerebral infarction, unspecified	0 -7 days
I64 - Stroke, not specified as haemorrhage or infarction	0 -7 days
I650 - Occlusion and stenosis of vertebral artery	0 -7 days
I651 - Occlusion and stenosis of basilar artery	0 -7 days
I652 - Occlusion and stenosis of carotid artery	0 -7 days
I653 - Occlusion and stenosis of multiple and bilateral precerebral arteries	0 -7 days
I658 - Occlusion and stenosis of other precerebral artery	0 -7 days
I659 - Occlusion and stenosis of unspecified precerebral artery	0 -7 days
I660 - Occlusion and stenosis of middle cerebral artery	0 -7 days
I661 - Occlusion and stenosis of anterior cerebral artery	0 -7 days
I662 - Occlusion and stenosis of posterior cerebral artery	0 -7 days
I663 - Occlusion and stenosis of cerebellar arteries	0 -7 days
I664 - Occlusion and stenosis of multiple and bilateral cerebral arteries	0 -7 days
I668 - Occlusion and stenosis of other cerebral artery	0 -7 days
I669 - Occlusion and stenosis of unspecified cerebral artery	0 -7 days
I674 - Hypertensive encephalopathy	0 -7 days
I690 - Sequelae of subarachnoid haemorrhage	0 -7 days
I691 - Sequelae of intracerebral haemorrhage	0 -7 days
I692 - Sequelae of other nontraumatic intracranial haemorrhage	0 -7 days
I693 - Sequelae of cerebral infarction	0 -7 days
I694 - Sequelae of stroke, not specified as haemorrhage or infarction	0 -7 days
I698 - Sequelae of other and unspecified cerebrovascular diseases	0 -7 days
I740 - Embolism and thrombosis of abdominal aorta	0 -7 days
I741 - Embolism and thrombosis of other and unspecified parts of aorta	0 -7 days
I742 - Embolism and thrombosis of arteries of upper extremities	0 -7 days
I743 - Embolism and thrombosis of arteries of lower extremities	0 -7 days
I744 - Embolism and thrombosis of arteries of extremities, unspecified	0 -7 days
I745 - Embolism and thrombosis of iliac artery	0 -7 days
I748 - Embolism and thrombosis of other arteries	0 -7 days
I749 - Embolism and thrombosis of unspecified artery	0 -7 days
I800 - Phlebitis and thrombophlebitis of superficial vessels of lower extremities	0 -7 days
I801 - Phlebitis and thrombophlebitis of femoral vein	0 -7 days
I8020 - Phlebitis and thrombophlebitis of deep vessels of lower extremities, not elsewhere classified	
I8021 - Phlebitis and thrombophlebitis of iliac vein	
I8022 - Phlebitis and thrombophlebitis of popliteal vein	
I8023 - Phlebitis and thrombophlebitis of tibial vein	

Principal diagnosis (ICD10-AM 10 th Ed)	Readmission interval (if shorter than 30 days)
I803 - Phlebitis and thrombophlebitis of lower extremities, unspecified	0 -7 days
I808 - Phlebitis and thrombophlebitis of other sites	0 -7 days
I809 - Phlebitis and thrombophlebitis of unspecified site	0 -7 days
I822 - Embolism and thrombosis of vena cava	0 -7 days
I823 - Embolism and thrombosis of renal vein	0 -7 days
I828 - Embolism and thrombosis of other specified veins	0 -7 days
I829 - Embolism and thrombosis of unspecified vein	0 -7 days
I950 - Idiopathic hypotension	
I9510 - Orthostatic hypotension, unspecified	
I9511 - Primary orthostatic hypotension	
I9512 - Neurogenic orthostatic hypotension	
I9519 - Other specified orthostatic hypotension	
I952 - Hypotension due to drugs	
I958 - Other hypotension	
I959 - Hypotension, unspecified	
I9781 - Postprocedural steal syndrome	
I9782 - Pacemaker syndrome	
I9783 - Postprocedural lymphocele, lymphoedema and chylothorax	
I9789 - Other intraoperative and postprocedural disorders of circulatory system, not elsewhere classified	
I979 - Intraoperative and postprocedural disorder of circulatory system, unspecified	
J13 - Pneumonia due to Streptococcus pneumoniae	0 -7 days
J14 - Pneumonia due to Haemophilus influenzae	0 -7 days
J150 - Pneumonia due to Klebsiella pneumoniae	0 -7 days
J151 - Pneumonia due to Pseudomonas	0 -7 days
J152 - Pneumonia due to staphylococcus	0 -7 days
J153 - Pneumonia due to streptococcus, group B	0 -7 days
J154 - Pneumonia due to other streptococci	0 -7 days
J155 - Pneumonia due to Escherichia coli	0 -7 days
J156 - Pneumonia due to other Gram-negative bacteria	0 -7 days
J157 - Pneumonia due to Mycoplasma pneumoniae	0 -7 days
J158 - Other bacterial pneumonia	0 -7 days
J159 - Bacterial pneumonia, unspecified	0 -7 days
J160 - Chlamydial pneumonia	0 -7 days
J168 - Pneumonia due to other specified infectious organisms	0 -7 days
J180 - Bronchopneumonia, unspecified	0 -7 days
J181 - Lobar pneumonia, unspecified	0 -7 days
J182 - Hypostatic pneumonia, unspecified	0 -7 days
J188 - Other pneumonia, organism unspecified	0 -7 days
J189 - Pneumonia, unspecified	0 -7 days
J200 - Acute bronchitis due to Mycoplasma pneumoniae	0 -7 days

Principal diagnosis (ICD10-AM 10 th Ed)	Readmission interval (if shorter than 30 days)
J201 - Acute bronchitis due to Haemophilus influenzae	0 -7 days
J202 - Acute bronchitis due to streptococcus	0 -7 days
J22 - Unspecified acute lower respiratory infection	0 -7 days
J440 - Chronic obstructive pulmonary disease with acute lower respiratory infection	0 -7 days
J441 - Chronic obstructive pulmonary disease with acute exacerbation, unspecified	0 -7 days
J690 - Pneumonitis due to food and vomit	0 -7 days
J691 - Pneumonitis due to oils and essences	0 -7 days
J698 - Pneumonitis due to other solids and liquids	0 -7 days
J81 - Pulmonary oedema	
J90 - Pleural effusion, not elsewhere classified	0 -7 days
J942 - Haemothorax	0 -7 days
J9600 - Acute respiratory failure, type I	0 -7 days
J9601 - Acute respiratory failure, type II	0 -7 days
J9609 - Acute respiratory failure, type unspecified	0 -7 days
J9610 - Chronic respiratory failure, type I	0 -7 days
J9611 - Chronic respiratory failure, type II	0 -7 days
J9619 - Chronic respiratory failure, type unspecified	0 -7 days
J9690 - Respiratory failure unspecified, type I	0 -7 days
J9691 - Respiratory failure unspecified, type II	0 -7 days
J9699 - Respiratory failure unspecified, type unspecified	0 -7 days
J981 - Pulmonary collapse	0 -7 days
K250 - Gastric ulcer, acute with haemorrhage	
K254 - Gastric ulcer, chronic or unspecified with haemorrhage	
K255 - Gastric ulcer, chronic or unspecified with perforation	
K260 - Duodenal ulcer, acute with haemorrhage	
K262 - Duodenal ulcer, acute with both haemorrhage and perforation	
K264 - Duodenal ulcer, chronic or unspecified with haemorrhage	
K266 - Duodenal ulcer, chronic or unspecified with both haemorrhage and perforation	
K270 - Peptic ulcer, acute with haemorrhage	
K272 - Peptic ulcer, acute with both haemorrhage and perforation	
K274 - Peptic ulcer, chronic or unspecified with haemorrhage	
K276 - Peptic ulcer, chronic or unspecified with both haemorrhage and perforation	
K280 - Gastrojejunal ulcer, acute with haemorrhage	
K282 - Gastrojejunal ulcer, acute with both haemorrhage and perforation	
K284 - Gastrojejunal ulcer, chronic or unspecified with haemorrhage	
K286 - Gastrojejunal ulcer, chronic or unspecified with both haemorrhage and perforation	
K290 - Acute haemorrhagic gastritis	
K3182 - Angiodysplasia of stomach and duodenum with haemorrhage	
K5522 - Angiodysplasia of colon with haemorrhage	
K590 - Constipation	

Principal diagnosis (ICD10-AM 10 th Ed)	Readmission interval (if shorter than 30 days)
K920 - Haematemesis	
K921 - Melaena	
K922 - Gastrointestinal haemorrhage, unspecified	
L0312 - Cellulitis of upper limb	0 -7 days
L0313 - Cellulitis of lower limb	0 -7 days
L8900 - Pressure injury, stage I, site not elsewhere classified	0 -7 days
L8901 - Pressure injury, stage I, head	0 -7 days
L8902 - Pressure injury, stage I, upper extremity	0 -7 days
L8903 - Pressure injury, stage I, upper back	0 -7 days
L8904 - Pressure injury, stage I, lower back	0 -7 days
L8905 - Pressure injury, stage I, ischium	0 -7 days
L8906 - Pressure injury, stage I, trochanter	0 -7 days
L8907 - Pressure injury, stage I, heel	0 -7 days
L8908 - Pressure injury, stage I, toe	0 -7 days
L8909 - Pressure injury, stage I, other site of lower extremity (excluding heel and toe)	0 -7 days
L8910 - Pressure injury, stage II, site not elsewhere classified	0 -7 days
L8911 - Pressure injury, stage II, head	0 -7 days
L8912 - Pressure injury, stage II, upper extremity	0 -7 days
L8913 - Pressure injury, stage II, upper back	0 -7 days
L8914 - Pressure injury, stage II, lower back	0 -7 days
L8915 - Pressure injury, stage II, ischium	0 -7 days
L8916 - Pressure injury, stage II, trochanter	0 -7 days
L8917 - Pressure injury, stage II, heel	0 -7 days
L8918 - Pressure injury, stage II, toe	0 -7 days
L8919 - Pressure injury, stage II, other site of lower extremity (excluding heel and toe)	0 -7 days
L8920 - Pressure injury, stage III, site not elsewhere classified	0 -7 days
L8921 - Pressure injury, stage III, head	0 -7 days
L8922 - Pressure injury, stage III, upper extremity	0 -7 days
L8923 - Pressure injury, stage III, upper back	0 -7 days
L8924 - Pressure injury, stage III, lower back	0 -7 days
L8925 - Pressure injury, stage III, ischium	0 -7 days
L8926 - Pressure injury, stage III, trochanter	0 -7 days
L8927 - Pressure injury, stage III, heel	0 -7 days
L8928 - Pressure injury, stage III, toe	0 -7 days
L8929 - Pressure injury, stage III, other site of lower extremity (excluding heel and toe)	0 -7 days
L8930 - Pressure injury, stage IV, site not elsewhere classified	0 -7 days
L8931 - Pressure injury, stage IV, head	0 -7 days
L8932 - Pressure injury, stage IV, upper extremity	0 -7 days
L8933 - Pressure injury, stage IV, upper back	0 -7 days
L8934 - Pressure injury, stage IV, lower back	0 -7 days

Principal diagnosis (ICD10-AM 10 th Ed)	Readmission interval (if shorter than 30 days)
L8935 - Pressure injury, stage IV, ischium	0 -7 days
L8936 - Pressure injury, stage IV, trochanter	0 -7 days
L8937 - Pressure injury, stage IV, heel	0 -7 days
L8938 - Pressure injury, stage IV, toe	0 -7 days
L8939 - Pressure injury, stage IV, other site of lower extremity (excluding heel and toe)	0 -7 days
L8940 - Pressure injury, unstageable, so stated, site not elsewhere classified	0 -7 days
L8941 - Pressure injury, unstageable, so stated, head	0 -7 days
L8942 - Pressure injury, unstageable, so stated, upper extremity	0 -7 days
L8943 - Pressure injury, unstageable, so stated, upper back	0 -7 days
L8944 - Pressure injury, unstageable, so stated, lower back	0 -7 days
L8945 - Pressure injury, unstageable, so stated, ischium	0 -7 days
L8946 - Pressure injury, unstageable, so stated, trochanter	0 -7 days
L8947 - Pressure injury, unstageable, so stated, heel	0 -7 days
L8948 - Pressure injury, unstageable, so stated, toe	0 -7 days
L8949 - Pressure injury, unstageable, so stated, other site of lower extremity (excluding heel and toe)	0 -7 days
L8950 - Suspected deep tissue injury, depth unknown, so stated, site not elsewhere classified	0 -7 days
L8951 - Suspected deep tissue injury, depth unknown, so stated, head	0 -7 days
L8952 - Suspected deep tissue injury, depth unknown, so stated, upper extremity	0 -7 days
L8953 - Suspected deep tissue injury, depth unknown, so stated, upper back	0 -7 days
L8954 - Suspected deep tissue injury, depth unknown, so stated, lower back	0 -7 days
L8955 - Suspected deep tissue injury, depth unknown, so stated, ischium	0 -7 days
L8956 - Suspected deep tissue injury, depth unknown, so stated, trochanter	0 -7 days
L8957 - Suspected deep tissue injury, depth unknown, so stated, heel	0 -7 days
L8958 - Suspected deep tissue injury, depth unknown, so stated, toe	0 -7 days
L8959 - Suspected deep tissue injury, depth unknown, so stated, other site of lower extremity (excluding heel and toe)	0 -7 days
L8990 - Pressure injury, unspecified stage, site not elsewhere classified	0 -7 days
L8991 - Pressure injury, unspecified stage, head	0 -7 days
L8992 - Pressure injury, unspecified stage, upper extremity	0 -7 days
L8993 - Pressure injury, unspecified stage, upper back	0 -7 days
L8994 - Pressure injury, unspecified stage, lower back	0 -7 days
L8995 - Pressure injury, unspecified stage, ischium	0 -7 days
L8996 - Pressure injury, unspecified stage, trochanter	0 -7 days
L8997 - Pressure injury, unspecified stage, heel	0 -7 days
L8998 - Pressure injury, unspecified stage, toe	0 -7 days
L8999 - Pressure injury, unspecified stage, other site of lower extremity (excluding heel and toe)	0 -7 days
N000 - Acute nephritic syndrome, minor glomerular abnormality	0 -7 days
N001 - Acute nephritic syndrome, focal and segmental glomerular lesions	0 -7 days
N002 - Acute nephritic syndrome, diffuse membranous glomerulonephritis	0 -7 days
N003 - Acute nephritic syndrome, diffuse mesangial proliferative glomerulonephritis	0 -7 days
N004 - Acute nephritic syndrome, diffuse endocapillary proliferative glomerulonephritis	0 -7 days

Principal diagnosis (ICD10-AM 10 th Ed)	Readmission interval (if shorter than 30 days)
N005 - Acute nephritic syndrome, diffuse mesangiocapillary glomerulonephritis	0 -7 days
N006 - Acute nephritic syndrome, dense deposit disease	0 -7 days
N007 - Acute nephritic syndrome, diffuse crescentic glomerulonephritis	0 -7 days
N008 - Acute nephritic syndrome, other	0 -7 days
N009 - Acute nephritic syndrome, unspecified	0 -7 days
N028 - Recurrent and persistent haematuria, other	0 -7 days
N029 - Recurrent and persistent haematuria, unspecified	0 -7 days
N170 - Acute kidney failure with tubular necrosis	
N171 - Acute kidney failure with acute cortical necrosis	
N172 - Acute kidney failure with medullary necrosis	
N178 - Other acute kidney failure	
N179 - Acute kidney failure, unspecified	
N19 - Unspecified kidney failure	0 -7 days
N300 - Acute cystitis	0 -7 days
N303 - Trigonitis	0 -7 days
N308 - Other cystitis	0 -7 days
N309 - Cystitis, unspecified	0 -7 days
N350 - Post traumatic urethral stricture	0 -7 days
N351 - Postinfective urethral stricture, not elsewhere classified	0 -7 days
N358 - Other urethral stricture	0 -7 days
N359 - Urethral stricture, unspecified	0 -7 days
N390 - Urinary tract infection, site not specified	0 -7 days
N394 - Other specified urinary incontinence	0 -7 days
N991 - Postprocedural urethral stricture	0 -7 days
N9981 - Haemorrhage from surgical anastomosis of genitourinary tract	0 -7 days
N9982 - Stenosis of surgical anastomosis of genitourinary tract	0 -7 days
N9983 - Leak from surgical anastomosis of genitourinary tract	0 -7 days
N9984 - Residual ovary syndrome	0 -7 days
N9989 - Other intraoperative and postprocedural disorder of genitourinary system	0 -7 days
N999 - Intraoperative and postprocedural disorder of genitourinary system, unspecified	0 -7 days
R000 - Tachycardia, unspecified	
R001 - Bradycardia, unspecified	
R002 - Palpitations	
R008 - Other and unspecified abnormalities of heart beat	
R040 - Epistaxis	0 -7 days
R041 - Haemorrhage from throat	0 -7 days
R042 - Haemoptysis	0 -7 days
R073 - Other chest pain	0 -7 days
R074 - Chest pain, unspecified	0 -7 days
R11 - Nausea and vomiting	0 -7 days

Principal diagnosis (ICD10-AM 10 th Ed)	Readmission interval (if shorter than 30 days)
R18 - Ascites	0 -7 days
R31 - Unspecified haematuria	0 -7 days
R33 - Retention of urine	0 -7 days
R410 - Disorientation, unspecified	0 -7 days
R42 - Dizziness and giddiness	0 -7 days
R509 - Fever, unspecified	0 -7 days
R55 - Syncope and collapse	0 -7 days
R570 - Cardiogenic shock	0 -7 days
R571 - Hypovolaemic shock	0 -7 days
R579 - Shock, unspecified	0 -7 days
R58 - Haemorrhage, not elsewhere classified	0 -7 days
S061 - Traumatic cerebral oedema	0 -7 days
S0630 - Focal cerebral and cerebellar injury, unspecified	0 -7 days
S0631 - Focal cerebral contusion	0 -7 days
S0632 - Focal cerebellar contusion	0 -7 days
S0633 - Focal cerebral haematoma	
S0634 - Focal cerebellar haematoma	
S0638 - Other focal cerebral and cerebellar injury	0 -7 days
S064 - Epidural haemorrhage	
S065 - Traumatic subdural haemorrhage	0 -7 days
S066 - Traumatic subarachnoid haemorrhage	0 -7 days
S068 - Other intracranial injuries	0 -7 days
S7200 - Fracture of neck of femur, part unspecified	0 -7 days
S7201 - Fracture of intracapsular section of femur	0 -7 days
S7202 - Fracture of upper epiphysis (separation) of femur	0 -7 days
S7203 - Fracture of subcapital section of femur	0 -7 days
S7204 - Fracture of midcervical section of femur	0 -7 days
S7205 - Fracture of base of neck of femur	0 -7 days
S7208 - Fracture of other parts of neck of femur	0 -7 days
T444 - Predominantly alpha-adrenoreceptor agonists, not elsewhere classified	
T446 - Alpha-adrenoreceptor antagonists, not elsewhere classified	
T447 - Beta-adrenoreceptor antagonists, not elsewhere classified	
T455 - Anticoagulants	
T460 - Cardiac-stimulant glycosides and drugs of similar action	
T461 - Calcium-channel blockers	
T462 - Other antidysrhythmic drugs, not elsewhere classified	
T463 - Coronary vasodilators, not elsewhere classified	
T464 - Angiotensin-converting-enzyme inhibitors	
T465 - Other antihypertensive drugs, not elsewhere classified	
T466 - Antihyperlipidaemic and antiarteriosclerotic drugs	

Principal diagnosis (ICD10-AM 10 th Ed)	Readmission interval (if shorter than 30 days)
T467 - Peripheral vasodilators	
T469 - Other and unspecified agents primarily affecting the cardiovascular system	
T500 - Mineralocorticoids and their antagonists	
T501 - Loop [high-ceiling] diuretics	
T502 - Carbonic-anhydrase inhibitors, benzothiadiazides and other diuretics	
T503 - Electrolytic, caloric and water-balance agents	
T801 - Vascular complications following infusion, transfusion and therapeutic injection	0 -7 days
T802 - Infections following infusion, transfusion and therapeutic injection	0 -7 days
T810 - Haemorrhage and haematoma complicating a procedure, not elsewhere classified	
T812 - Accidental puncture and laceration during a procedure, not elsewhere classified	0 -7 days
T813 - Disruption of operation wound, not elsewhere classified	0 -7 days
T814 - Wound infection following a procedure, not elsewhere classified	0 -7 days
T815 - Foreign body accidentally left in body cavity or operation wound following a procedure	0 -7 days
T816 - Acute reaction to foreign substance accidentally left during a procedure	0 -7 days
T817 - Vascular complications following a procedure, not elsewhere classified	0 -7 days
T8181 - Complication of inhalation therapy	0 -7 days
T8182 - Persistent postprocedural fistula, not elsewhere classified	0 -7 days
T8183 - Pain following a procedure, not elsewhere classified	0 -7 days
T8184 - Postprocedural emphysema	0 -7 days
T8189 - Other complications following a procedure, not elsewhere classified	0 -7 days
T819 - Unspecified complication of procedure	0 -7 days
T820 - Mechanical complication of heart valve prosthesis	
T821 - Mechanical complication of cardiac electronic device	
T822 - Mechanical complication of coronary artery bypass and valve grafts	
T8251 - Mechanical complication of central vascular catheter	
T8252 - Mechanical complication of peripheral vascular catheter	
T8253 - Mechanical complication of surgically created arteriovenous fistula and shunt	
T8254 - Mechanical complication of vascular balloon [counterpulsation] device	
T8255 - Mechanical complication of artificial heart	
T8256 - Mechanical complication of vena cava device	
T8259 - Mechanical complication of other specified cardiac and vascular devices and implants	
T826 - Infection and inflammatory reaction due to cardiac valve prosthesis	
T8271 - Infection and inflammatory reaction due to electronic cardiac device	
T8272 - Infection and inflammatory reaction due to coronary artery bypass and valve grafts	
T8273 - Infection and inflammatory reaction due to other vascular grafts	
T8274 - Infection and inflammatory reaction due to central vascular catheter	
T8275 - Infection and inflammatory reaction due to peripheral vascular catheter	
T8276 - Infection and inflammatory reaction due to surgically created arteriovenous fistula and shunt	
T8277 - Infection and inflammatory reaction due to vascular dialysis catheter	
T8279 - Infection and inflammatory reaction due to cardiac and vascular devices, implants and grafts, not elsewhere classified	

Principal diagnosis (ICD10-AM 10 th Ed)	Readmission interval (if shorter than 30 days)
T8281 - Haemorrhage and haematoma following insertion of cardiac and vascular prosthetic devices, implants and grafts	
T8282 - Embolism and thrombosis following insertion of cardiac and vascular prosthetic devices, implants and grafts	
T8283 - Pain following insertion of cardiac and vascular prosthetic devices, implants and grafts	
T8284 - Stenosis following insertion of cardiac and vascular prosthetic devices, implants and grafts	
T8285 - Vascular dissection following insertion of cardiac and vascular prosthetic devices, implants and grafts	
T8286 - Aneurysm following insertion of cardiac and vascular prosthetic devices, implants and grafts	
T8289 - Other specified complications of cardiac and vascular prosthetic devices, implants and grafts	
T829 - Unspecified complication of cardiac and vascular prosthetic device, implant and graft	
T830 - Mechanical complication of urinary (indwelling) catheter	0 -7 days
T835 - Infection and inflammatory reaction due to prosthetic device, implant and graft in urinary system	0 -7 days
T887 - Unspecified adverse effect of drug or medicament	
T888 - Other specified complications of surgical and medical care, not elsewhere classified	
T889 - Complication of surgical and medical care, unspecified	
Z450 - Adjustment and management of cardiac device	

Appendix 5: Principal diagnosis codes for the numerator for CHBOI 4b, 4c, 4d

Note: If the readmission interval shown in the Table below is longer than the indicator's specified readmission interval (e.g. readmission interval for tonsillectomy and adenoidectomy is 15 days), then the default readmission interval should be the indicator's specific readmission interval.

Principal diagnosis (ICD10-AM 9 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
A04.7 - Enterocolitis due to Clostridium difficile	Y	Y	Y	0 - 30 days
A40.0 - Sepsis due to streptococcus, group A	Y	Y	Y	0 - 7 days
A40.1 - Sepsis due to streptococcus, group B	Y	Y	Y	0 - 7 days
A40.2 - Sepsis due to streptococcus, group D	Y	Y	Y	0 - 7 days
A40.3 - Sepsis due to Streptococcus pneumoniae	Y	Y	Y	0 - 7 days
A40.8 - Other streptococcal sepsis	Y	Y	Y	0 - 7 days
A40.9 - Streptococcal sepsis, unspecified	Y	Y	Y	0 - 7 days
A41.0 - Sepsis due to Staphylococcus aureus	Y	Y	Y	0 - 7 days
A41.1 - Sepsis due to other specified staphylococcus	Y	Y	Y	0 - 7 days
A41.2 - Sepsis due to unspecified staphylococcus	Y	Y	Y	0 - 7 days
A41.3 - Sepsis due to Haemophilus influenzae	Y	Y	Y	0 - 7 days
A41.4 - Sepsis due to anaerobes	Y	Y	Y	0 - 7 days
A41.50 - Sepsis due to unspecified Gram-negative organisms	Y	Y	Y	0 - 7 days
A41.51 - Sepsis due to Escherichia coli [E. Coli]	Y	Y	Y	0 - 7 days
A41.52 - Sepsis due to Pseudomonas	Y	Y	Y	0 - 7 days
A41.58 - Sepsis due to other Gram-negative organisms	Y	Y	Y	0 - 7 days
A41.8 - Other specified sepsis	Y	Y	Y	0 - 7 days
A41.9 - Sepsis, unspecified	Y	Y	Y	0 - 7 days
A49.0 - Staphylococcal infection, unspecified site	Y	Y	Y	0 - 7 days
A49.1 - Streptococcal infection, unspecified site	Y	Y	Y	0 - 7 days
A49.2 - Haemophilus influenzae infection, unspecified site	Y	Y	Y	0 - 7 days
A49.3 - Mycoplasma infection, unspecified site	Y	Y	Y	0 - 7 days
A49.8 - Other bacterial infections of unspecified site	Y	Y	Y	0 - 7 days
A49.9 - Bacterial infection, unspecified	Y	Y	Y	0 - 7 days
D50.0 - Iron deficiency anaemia secondary to blood loss (chronic)	Y	Y		0 - 7 days
D50.8 - Other iron deficiency anaemias	Y	Y		0 - 7 days
D50.9 - Iron deficiency anaemia, unspecified	Y	Y		0 - 7 days
D62 - Acute posthaemorrhagic anaemia	Y	Y	Y	0 - 7 days
D64.9 - Anaemia, unspecified	Y	Y		0 - 7 days
D68.3 - Haemorrhagic disorder due to circulating anticoagulants	Y	Y	Y	0 - 15 days

Principal diagnosis (ICD10-AM 9 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
D68.4 - Acquired coagulation factor deficiency	Y	Y	Y	0 - 7 days
D68.5 - Primary thrombophilia	Y	Y	Y	0 - 7 days
D68.6 - Other thrombophilia	Y	Y	Y	0 - 7 days
D68.8 - Other specified coagulation defects	Y	Y	Y	0 - 7 days
D68.9 - Coagulation defect, unspecified	Y	Y	Y	0 - 7 days
D69.5 - Secondary thrombocytopenia	Y	Y	Y	0 - 7 days
D69.6 - Thrombocytopenia, unspecified	Y	Y	Y	0 - 7 days
D69.8 - Other specified haemorrhagic conditions	Y	Y	Y	0 - 7 days
D69.9 - Haemorrhagic condition, unspecified	Y	Y	Y	0 - 7 days
E10.1 - Type 1 diabetes mellitus with acidosis	Y	Y	Y	0 - 7 days
E10.2 - Type 1 diabetes mellitus with kidney complication	Y	Y	Y	0 - 7 days
E10.11 - Type 1 diabetes mellitus with ketoacidosis, without coma	Y	Y	Y	0 - 7 days
E10.12 - Type 1 diabetes mellitus with ketoacidosis, with coma	Y	Y	Y	0 - 7 days
E10.13 - Type 1 diabetes mellitus with lactic acidosis, without coma	Y	Y	Y	0 - 7 days
E10.14 - Type 1 diabetes mellitus with lactic acidosis, with coma	Y	Y	Y	0 - 7 days
E10.15 - Type 1 diabetes mellitus with ketoacidosis, with lactic acidosis, without coma	Y	Y	Y	0 - 7 days
E10.16 - Type 1 diabetes mellitus with ketoacidosis, with lactic acidosis, with coma	Y	Y	Y	0 - 7 days
E10.64 - Type 1 diabetes mellitus with hypoglycaemia	Y	Y	Y	0 - 7 days
E10.65 - Type 1 diabetes mellitus with poor control	Y	Y	Y	0 - 7 days
E11.1 - Type 2 diabetes mellitus with acidosis	Y	Y	Y	0 - 7 days
E11.2 - Type 2 diabetes mellitus with kidney complication	Y	Y	Y	0 - 7 days
E11.11 - Type 2 diabetes mellitus with ketoacidosis, without coma	Y	Y	Y	0 - 7 days
E11.12 - Type 2 diabetes mellitus with ketoacidosis, with coma	Y	Y	Y	0 - 7 days
E11.13 - Type 2 diabetes mellitus with lactic acidosis, without coma	Y	Y	Y	0 - 7 days
E11.14 - Type 2 diabetes mellitus with lactic acidosis, with coma	Y	Y	Y	0 - 7 days
E11.15 - Type 2 diabetes mellitus with ketoacidosis, with lactic acidosis, without coma	Y	Y	Y	0 - 7 days
E11.16 - Type 2 diabetes mellitus with ketoacidosis, with lactic acidosis, with coma	Y	Y	Y	0 - 7 days
E11.64 - Type 2 diabetes mellitus with hypoglycaemia	Y	Y	Y	0 - 7 days
E11.65 - Type 2 diabetes mellitus with poor control	Y	Y	Y	0 - 7 days
E13.1 - Other specified diabetes mellitus with acidosis	Y	Y	Y	0 - 7 days
E13.2 - Other specified diabetes mellitus with kidney complication	Y	Y	Y	0 - 7 days
E13.11 - Other specified diabetes mellitus with ketoacidosis, without coma	Y	Y	Y	0 - 7 days
E13.12 - Other specified diabetes mellitus with ketoacidosis, with coma	Y	Y	Y	0 - 7 days
E13.13 - Other specified diabetes mellitus with lactic acidosis, without coma	Y	Y	Y	0 - 7 days
E13.14 - Other specified diabetes mellitus with lactic acidosis, with coma	Y	Y	Y	0 - 7 days

Principal diagnosis (ICD10-AM 9 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
E13.15 - Other specified diabetes mellitus with ketoacidosis, with lactic acidosis, without coma	Y	Y	Y	0 - 7 days
E13.16 - Other specified diabetes mellitus with ketoacidosis, with lactic acidosis, with coma	Y	Y	Y	0 - 7 days
E13.64 - Other specified diabetes mellitus with hypoglycaemia	Y	Y	Y	0 - 7 days
E13.65 - Other specified diabetes mellitus with poor control	Y	Y	Y	0 - 7 days
E14.01 - Unspecified diabetes mellitus with hyperosmolarity, without nonketotic hyperglycaemic-hyperosmolar coma [NKHHC]	Y	Y	Y	0 - 7 days
E14.02 - Unspecified diabetes mellitus with hyperosmolarity, with coma	Y	Y	Y	0 - 7 days
E14.1 - Unspecified diabetes mellitus with acidosis	Y	Y	Y	0 - 7 days
E14.2 - Unspecified diabetes mellitus with kidney complication				0 - 7 days
E14.11 - Unspecified diabetes mellitus with ketoacidosis, without coma	Y	Y	Y	0 - 7 days
E14.12 - Unspecified diabetes mellitus with ketoacidosis, with coma	Y	Y	Y	0 - 7 days
E14.13 - Unspecified diabetes mellitus with lactic acidosis, without coma	Y	Y	Y	0 - 7 days
E14.14 - Unspecified diabetes mellitus with lactic acidosis, with coma	Y	Y	Y	0 - 7 days
E14.15 - Unspecified diabetes mellitus with ketoacidosis, with lactic acidosis, without coma	Y	Y	Y	0 - 7 days
E14.16 - Unspecified diabetes mellitus with ketoacidosis, with lactic acidosis, with coma	Y	Y	Y	0 - 7 days
E14.64 - Unspecified diabetes mellitus with hypoglycaemia	Y	Y	Y	0 - 7 days
E14.65 - Unspecified diabetes mellitus with poor control	Y	Y	Y	0 - 7 days
E27.2 - Addisonian crisis	Y	Y	Y	0 - 7 days
E86 - Volume depletion	Y	Y	Y	0 - 7 days
E87.0 - Hyperosmolality and hypernatraemia	Y	Y	Y	0 - 7 days
E87.1 - Hypo-osmolality and hyponatraemia	Y	Y	Y	0 - 7 days
E87.2 - Acidosis	Y	Y	Y	0 - 7 days
E87.3 - Alkalosis	Y	Y	Y	0 - 7 days
E87.4 - Mixed disorder of acid-base balance	Y	Y	Y	0 - 7 days
E87.5 - Hyperkalaemia	Y	Y	Y	0 - 7 days
E87.6 - Hypokalaemia	Y	Y	Y	0 - 7 days
E87.7 - Fluid overload	Y	Y	Y	0 - 7 days
E87.8 - Other disorders of electrolyte and fluid balance, not elsewhere classified	Y	Y	Y	0 - 7 days
F05.9 - Delirium, unspecified	Y	Y	Y	0 - 7 days
F10.2 - Mental and behavioural disorders due to use of alcohol, dependence syndrome	Y	Y		0 - 7 days
F10.5 - Mental and behavioural disorders due to use of alcohol, psychotic disorder	Y	Y		0 - 7 days
F11.2 - Mental and behavioural disorders due to use of opioids, dependence syndrome	Y	Y		0 - 7 days
F11.5 - Mental and behavioural disorders due to use of opioids, psychotic disorder	Y	Y		0 - 7 days
G45.0 - Vertebro-basilar artery syndrome	Y	Y		0 - 7 days
G45.1 - Carotid artery syndrome (hemispheric)	Y	Y		0 - 7 days

Principal diagnosis (ICD10-AM 9 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
G45.2 - Multiple and bilateral precerebral artery syndromes	Y	Y		0 - 7 days
G45.3 - Amaurosis fugax	Y	Y		0 - 7 days
G45.4 - Transient global amnesia	Y	Y		0 - 7 days
G45.8 - Other transient cerebral ischaemic attacks and related syndromes	Y	Y		0 - 7 days
G45.9 - Transient cerebral ischaemic attack, unspecified	Y	Y		0 - 7 days
G54.0 - Brachial plexus disorders	Y	Y		0 - 7 days
G54.1 - Lumbosacral plexus disorders	Y	Y		0 - 7 days
G56.0 - Carpal tunnel syndrome	Y	Y	Y	0 - 7 days
G56.1 - Other lesions of median nerve	Y	Y		0 - 7 days
G56.2 - Lesion of ulnar nerve	Y	Y		0 - 7 days
G56.3 - Lesion of radial nerve	Y	Y		0 - 7 days
G56.4 - Causalgia of upper limb	Y	Y		0 - 7 days
G56.8 - Other mononeuropathies of upper limb	Y	Y		0 - 7 days
G56.9 - Mononeuropathy of upper limb, unspecified	Y	Y		0 - 7 days
G57.0 - Lesion of sciatic nerve	Y	Y	Y	0 - 7 days
G57.1 - Meralgia paraesthetica	Y	Y	Y	0 - 7 days
G57.2 - Lesion of femoral nerve	Y	Y	Y	0 - 7 days
G57.3 - Lesion of lateral popliteal nerve	Y	Y	Y	0 - 7 days
G57.4 - Lesion of medial popliteal nerve	Y	Y	Y	0 - 7 days
G57.5 - Tarsal tunnel syndrome	Y	Y	Y	0 - 7 days
G57.6 - Lesion of plantar nerve	Y	Y	Y	0 - 7 days
G57.7 - Causalgia of lower limb	Y	Y	Y	0 - 7 days
G57.8 - Other mononeuropathies of lower limb	Y	Y	Y	0 - 7 days
G57.9 - Mononeuropathy of lower limb, unspecified	Y	Y	Y	0 - 7 days
G97.0 - Cerebrospinal fluid leak from spinal puncture	Y	Y		0 - 7 days
G97.1 - Other reaction to spinal and lumbar puncture	Y	Y		0 - 7 days
G97.8 - Other postprocedural disorders of nervous system	Y	Y		0 - 7 days
G97.9 - Postprocedural disorder of nervous system, unspecified	Y	Y	Y	0 - 7 days
H02.4 - Ptosis of eyelid	Y	Y	Y	0 - 7 days
I20.0 - Unstable angina	Y	Y		0 - 7 days
I20.1 - Angina pectoris with documented spasm	Y	Y		0 - 7 days
I20.8 - Other forms of angina pectoris	Y	Y		0 - 7 days
I20.9 - Angina pectoris, unspecified	Y	Y		0 - 7 days
I21.0 - Acute transmural myocardial infarction of anterior wall	Y	Y		0 - 7 days
I21.1 - Acute transmural myocardial infarction of inferior wall	Y	Y		0 - 7 days
I21.2 - Acute transmural myocardial infarction of other sites	Y	Y		0 - 7 days
I21.3 - Acute transmural myocardial infarction of unspecified site	Y	Y		0 - 7 days

Principal diagnosis (ICD10-AM 9 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
I21.4 - Acute subendocardial myocardial infarction	Y	Y		0 - 7 days
I21.9 - Acute myocardial infarction, unspecified	Y	Y		0 - 7 days
I24.0 - Coronary thrombosis not resulting in myocardial infarction	Y	Y		0 - 7 days
I24.1 - Dressler's syndrome	Y	Y		0 - 7 days
I24.8 - Other forms of acute ischaemic heart disease	Y	Y		0 - 7 days
I24.9 - Acute ischaemic heart disease, unspecified	Y	Y		0 - 7 days
I26.0 - Pulmonary embolism with mention of acute cor pulmonale	Y	Y		0 - 7 days
I26.9 - Pulmonary embolism without mention of acute cor pulmonale	Y	Y		0 - 7 days
I33.0 - Acute and subacute infective endocarditis	Y	Y	Y	0 - 7 days
I33.9 - Acute endocarditis, unspecified	Y	Y	Y	0 - 60 days
I38 - Endocarditis, valve unspecified	Y	Y	Y	0 - 60 days
I45.0 - Right fascicular block	Y	Y		0 - 15 days
I45.1 - Other and unspecified right bundle-branch block	Y	Y		0 - 7 days
I45.2 - Bifascicular block	Y	Y		0 - 7 days
I45.3 - Trifascicular block	Y	Y		0 - 7 days
I45.4 - Nonspecific intraventricular block	Y	Y		0 - 7 days
I45.5 - Other specified heart block	Y	Y		0 - 7 days
I45.6 - Pre-excitation syndrome	Y	Y		0 - 7 days
I45.8 - Other specified conduction disorders	Y	Y		0 - 7 days
I45.9 - Conduction disorder, unspecified	Y	Y		0 - 7 days
I46.0 - Cardiac arrest with successful resuscitation	Y	Y	Y	0 - 7 days
I46.1 - Sudden cardiac death, so described	Y	Y	Y	0 - 7 days
I46.9 - Cardiac arrest, unspecified	Y	Y	Y	0 - 7 days
I47.0 - Re-entry ventricular arrhythmia	Y	Y		0 - 7 days
I47.1 - Supraventricular tachycardia	Y	Y		0 - 7 days
I47.2 - Ventricular tachycardia	Y	Y		0 - 7 days
I47.9 - Paroxysmal tachycardia, unspecified	Y	Y		0 - 7 days
I48.0 - Paroxysmal atrial fibrillation	Y	Y		0 - 7 days
I48.1 - Persistent atrial fibrillation	Y	Y		0 - 7 days
I48.2 - Chronic atrial fibrillation	Y	Y		0 - 7 days
I48.3 - Typical atrial flutter	Y	Y		0 - 7 days
I48.4 - Atypical atrial flutter	Y	Y		0 - 7 days
I48.9 - Atrial fibrillation and atrial flutter, unspecified	Y	Y		0 - 7 days
I49.0 - Ventricular fibrillation and flutter	Y	Y		0 - 7 days
I49.1 - Atrial premature depolarisation	Y	Y		0 - 7 days
I49.2 - Junctional premature depolarisation	Y	Y		0 - 7 days
I49.3 - Ventricular premature depolarisation	Y	Y		0 - 7 days

Principal diagnosis (ICD10-AM 9 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
I49.4 - Other and unspecified premature depolarisation	Y	Y		0 - 7 days
I49.5 - Sick sinus syndrome	Y	Y		0 - 7 days
I49.8 - Other specified cardiac arrhythmias	Y	Y		0 - 7 days
I49.9 - Cardiac arrhythmia, unspecified	Y	Y		0 - 7 days
I50.0 - Congestive heart failure	Y	Y		0 - 7 days
I50.1 - Left ventricular failure	Y	Y		0 - 7 days
I50.9 - Heart failure, unspecified	Y	Y		0 - 7 days
I51.0 - Cardiac septal defect, acquired	Y	Y		0 - 7 days
I51.1 - Rupture of chordae tendineae, not elsewhere classified	Y	Y		0 - 7 days
I51.2 - Rupture of papillary muscle, not elsewhere classified	Y	Y		0 - 7 days
I51.3 - Intracardiac thrombosis, not elsewhere classified	Y	Y		0 - 7 days
I51.4 - Myocarditis, unspecified	Y	Y		0 - 7 days
I51.5 - Myocardial degeneration	Y	Y		0 - 7 days
I51.6 - Cardiovascular disease, unspecified	Y	Y		0 - 7 days
I51.7 - Cardiomegaly	Y	Y		0 - 7 days
I51.8 - Other ill-defined heart diseases	Y	Y		0 - 7 days
I51.9 - Heart disease, unspecified	Y	Y		0 - 7 days
I60.0 - Subarachnoid haemorrhage from carotid siphon and bifurcation	Y	Y		0 - 7 days
I60.1 - Subarachnoid haemorrhage from middle cerebral artery	Y	Y		0 - 7 days
I60.2 - Subarachnoid haemorrhage from anterior communicating artery	Y	Y		0 - 7 days
I60.3 - Subarachnoid haemorrhage from posterior communicating artery	Y	Y		0 - 7 days
I60.4 - Subarachnoid haemorrhage from basilar artery	Y	Y		0 - 7 days
I60.5 - Subarachnoid haemorrhage from vertebral artery	Y	Y		0 - 7 days
I60.6 - Subarachnoid haemorrhage from other intracranial arteries	Y	Y		0 - 7 days
I60.7 - Subarachnoid haemorrhage from intracranial artery, unspecified	Y	Y		0 - 7 days
I60.8 - Other subarachnoid haemorrhage	Y	Y		0 - 7 days
I60.9 - Subarachnoid haemorrhage, unspecified	Y	Y		0 - 7 days
I61.0 - Intracerebral haemorrhage in hemisphere, subcortical	Y	Y		0 - 7 days
I61.1 - Intracerebral haemorrhage in hemisphere, cortical	Y	Y		0 - 7 days
I61.2 - Intracerebral haemorrhage in hemisphere, unspecified	Y	Y		0 - 7 days
I61.3 - Intracerebral haemorrhage in brain stem	Y	Y		0 - 7 days
I61.4 - Intracerebral haemorrhage in cerebellum	Y	Y		0 - 7 days
I61.5 - Intracerebral haemorrhage, intraventricular	Y	Y		0 - 7 days
I61.6 - Intracerebral haemorrhage, multiple localised	Y	Y		0 - 7 days
I61.8 - Other intracerebral haemorrhage	Y	Y		0 - 7 days
I61.9 - Intracerebral haemorrhage, unspecified	Y	Y		0 - 7 days

Principal diagnosis (ICD10-AM 9 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
I62.0 - Subdural haemorrhage (acute)(nontraumatic)	Y	Y		0 - 7 days
I62.1 - Nontraumatic extradural haemorrhage	Y	Y		0 - 7 days
I62.9 - Intracranial haemorrhage (nontraumatic), unspecified	Y	Y		0 - 7 days
I63.0 - Cerebral infarction due to thrombosis of precerebral arteries	Y	Y		0 - 7 days
I63.1 - Cerebral infarction due to embolism of precerebral arteries	Y	Y		0 - 7 days
I63.2 - Cerebral infarction due to unspecified occlusion or stenosis of precerebral arteries	Y	Y		0 - 7 days
I63.3 - Cerebral infarction due to thrombosis of cerebral arteries	Y	Y		0 - 7 days
I63.4 - Cerebral infarction due to embolism of cerebral arteries	Y	Y		0 - 7 days
I63.5 - Cerebral infarction due to unspecified occlusion or stenosis of cerebral arteries	Y	Y		0 - 7 days
I63.6 - Cerebral infarction due to cerebral venous thrombosis, nonpyogenic	Y	Y		0 - 7 days
I63.8 - Other cerebral infarction	Y	Y		0 - 7 days
I63.9 - Cerebral infarction, unspecified	Y	Y		0 - 7 days
I64 - Stroke, not specified as haemorrhage or infarction	Y	Y		0 - 7 days
I65.0 - Occlusion and stenosis of vertebral artery	Y	Y		0 - 7 days
I65.1 - Occlusion and stenosis of basilar artery	Y	Y		0 - 7 days
I65.2 - Occlusion and stenosis of carotid artery	Y	Y		0 - 7 days
I65.3 - Occlusion and stenosis of multiple and bilateral precerebral arteries	Y	Y		0 - 7 days
I65.8 - Occlusion and stenosis of other precerebral artery	Y	Y		0 - 7 days
I65.9 - Occlusion and stenosis of unspecified precerebral artery	Y	Y		0 - 7 days
I66.0 - Occlusion and stenosis of middle cerebral artery	Y	Y		0 - 7 days
I66.1 - Occlusion and stenosis of anterior cerebral artery	Y	Y		0 - 7 days
I66.2 - Occlusion and stenosis of posterior cerebral artery	Y	Y		0 - 7 days
I66.3 - Occlusion and stenosis of cerebellar arteries	Y	Y		0 - 7 days
I66.4 - Occlusion and stenosis of multiple and bilateral cerebral arteries	Y	Y		0 - 7 days
I66.8 - Occlusion and stenosis of other cerebral artery	Y	Y		0 - 7 days
I66.9 - Occlusion and stenosis of unspecified cerebral artery	Y	Y		0 - 7 days
I74.0 - Embolism and thrombosis of abdominal aorta	Y	Y		0 - 7 days
I74.1 - Embolism and thrombosis of other and unspecified parts of aorta	Y	Y		0 - 7 days
I74.2 - Embolism and thrombosis of arteries of upper extremities	Y	Y		0 - 7 days
I74.3 - Embolism and thrombosis of arteries of lower extremities	Y	Y		0 - 7 days
I74.4 - Embolism and thrombosis of arteries of extremities, unspecified	Y	Y		0 - 7 days
I74.5 - Embolism and thrombosis of iliac artery	Y	Y		0 - 7 days
I74.8 - Embolism and thrombosis of other arteries	Y	Y		0 - 7 days
I74.9 - Embolism and thrombosis of unspecified artery	Y	Y		0 - 7 days
I80.0 - Phlebitis and thrombophlebitis of superficial vessels of lower extremities	Y	Y	Y	0 - 60 days

Principal diagnosis (ICD10-AM 9 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
I80.1 - Phlebitis and thrombophlebitis of femoral vein	Y	Y	Y	0 - 60 days
I80.2 - Phlebitis and thrombophlebitis of other deep vessels of lower extremities	Y	Y	Y	0 - 60 days
I80.3 - Phlebitis and thrombophlebitis of lower extremities, unspecified	Y	Y	Y	0 - 60 days
I80.8 - Phlebitis and thrombophlebitis of other sites	Y	Y	Y	0 - 60 days
I80.9 - Phlebitis and thrombophlebitis of unspecified site	Y	Y	Y	0 - 60 days
I81 - Portal vein thrombosis	Y	Y	Y	0 - 60 days
I82.2 - Embolism and thrombosis of vena cava	Y	Y		0 - 60 days
I82.8 - Embolism and thrombosis of other specified veins	Y	Y	Y	0 - 60 days
I95.0 - Idiopathic hypotension	Y	Y	Y	0 - 60 days
I95.1 - Orthostatic hypotension	Y	Y	Y	0 - 7 days
I95.2 - Hypotension due to drugs	Y	Y	Y	0 - 7 days
I95.8 - Other hypotension	Y	Y	Y	0 - 7 days
I95.9 - Hypotension, unspecified	Y	Y	Y	0 - 7 days
I97.8 - Other postprocedural disorders of circulatory system, not elsewhere classified	Y	Y	Y	0 - 7 days
I97.9 - Postprocedural disorder of circulatory system, unspecified	Y	Y	Y	0 - 15 days
J02.0 - Streptococcal pharyngitis			Y	0 - 15 days
J02.8 - Acute pharyngitis due to other specified organisms			Y	0 - 15 days
J02.9 - Acute pharyngitis, unspecified			Y	0 - 15 days
J03.0 - Streptococcal tonsillitis			Y	0 - 15 days
J03.8 - Acute tonsillitis due to other specified organisms			Y	0 - 15 days
J03.9 - Acute tonsillitis, unspecified			Y	0 - 15 days
J06.0 - Acute laryngopharyngitis			Y	0 - 15 days
J06.8 - Other acute upper respiratory infections of multiple sites			Y	0 - 7 days
J06.9 - Acute upper respiratory infection, unspecified			Y	0 - 7 days
J12.0 - Adenoviral pneumonia	Y	Y	Y	0 - 7 days
J12.1 - Respiratory syncytial virus pneumonia	Y	Y	Y	0 - 7 days
J12.2 - Parainfluenza virus pneumonia	Y	Y	Y	0 - 7 days
J12.3 - Human metapneumovirus pneumonia	Y	Y	Y	0 - 7 days
J12.8 - Other viral pneumonia	Y	Y	Y	0 - 7 days
J12.9 - Viral pneumonia, unspecified	Y	Y	Y	0 - 7 days
J14 - Pneumonia due to Haemophilus influenzae	Y	Y	Y	0 - 7 days
J15.0 - Pneumonia due to Klebsiella pneumoniae	Y	Y	Y	0 - 7 days
J15.1 - Pneumonia due to Pseudomonas	Y	Y	Y	0 - 7 days
J15.2 - Pneumonia due to staphylococcus	Y	Y	Y	0 - 7 days
J15.3 - Pneumonia due to streptococcus, group B	Y	Y	Y	0 - 7 days
J15.4 - Pneumonia due to other streptococci	Y	Y	Y	0 - 7 days
J15.5 - Pneumonia due to Escherichia coli	Y	Y	Y	0 - 7 days

Principal diagnosis (ICD10-AM 9 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
J15.6 - Pneumonia due to other Gram-negative bacteria	Y	Y	Y	0 - 7 days
J15.7 - Pneumonia due to Mycoplasma pneumoniae	Y	Y	Y	0 - 7 days
J15.8 - Other bacterial pneumonia	Y	Y	Y	0 - 7 days
J15.9 - Bacterial pneumonia, unspecified	Y	Y	Y	0 - 7 days
J16.0 - Chlamydial pneumonia	Y	Y	Y	0 - 7 days
J16.8 - Pneumonia due to other specified infectious organisms	Y	Y	Y	0 - 7 days
J18.0 - Bronchopneumonia, unspecified	Y	Y	Y	0 - 7 days
J18.1 - Lobar pneumonia, unspecified	Y	Y	Y	0 - 7 days
J18.2 - Hypostatic pneumonia, unspecified	Y	Y	Y	0 - 7 days
J18.8 - Other pneumonia, organism unspecified	Y	Y	Y	0 - 7 days
J18.9 - Pneumonia, unspecified	Y	Y	Y	0 - 7 days
J20.0 - Acute bronchitis due to Mycoplasma pneumoniae	Y	Y	Y	0 - 7 days
J20.1 - Acute bronchitis due to Haemophilus influenzae	Y	Y	Y	0 - 7 days
J20.2 - Acute bronchitis due to streptococcus	Y	Y	Y	0 - 7 days
J20.3 - Acute bronchitis due to coxsackievirus	Y	Y	Y	0 - 7 days
J20.4 - Acute bronchitis due to parainfluenza virus	Y	Y	Y	0 - 7 days
J20.5 - Acute bronchitis due to respiratory syncytial virus	Y	Y	Y	0 - 7 days
J20.6 - Acute bronchitis due to rhinovirus	Y	Y	Y	0 - 7 days
J20.7 - Acute bronchitis due to echovirus	Y	Y	Y	0 - 7 days
J20.8 - Acute bronchitis due to other specified organisms	Y	Y	Y	0 - 7 days
J20.9 - Acute bronchitis, unspecified	Y	Y	Y	0 - 7 days
J22 - Unspecified acute lower respiratory infection	Y	Y	Y	0 - 7 days
J35.0 - Chronic tonsillitis			Y	0 - 15 days
J35.1 - Hypertrophy of tonsils			Y	0 - 15 days
J35.2 - Hypertrophy of adenoids			Y	0 - 15 days
J35.3 - Hypertrophy of tonsils with hypertrophy of adenoids			Y	0 - 15 days
J35.8 - Other chronic diseases of tonsils and adenoids			Y	0 - 15 days
J35.9 - Chronic disease of tonsils and adenoids, unspecified			Y	0 - 15 days
J36 - Peritonsillar abscess			Y	0 - 15 days
J39.0 - Retropharyngeal and parapharyngeal abscess			Y	0 - 7 days
J39.1 - Other abscess of pharynx			Y	0 - 7 days
J39.2 - Other diseases of pharynx			Y	0 - 7 days
J39.3 - Upper respiratory tract hypersensitivity reaction, site unspecified			Y	0 - 7 days
J39.8 - Other specified diseases of upper respiratory tract			Y	0 - 7 days
J39.9 - Disease of upper respiratory tract, unspecified			Y	0 - 7 days
J40 - Bronchitis, not specified as acute or chronic	Y	Y	Y	0 - 7 days
J44.0 - Chronic obstructive pulmonary disease with acute lower respiratory infection	Y	Y		0 - 7 days

Principal diagnosis (ICD10-AM 9 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
J44.1 - Chronic obstructive pulmonary disease with acute exacerbation, unspecified	Y	Y		0 - 7 days
J44.8 - Other specified chronic obstructive pulmonary disease	Y	Y		0 - 7 days
J44.9 - Chronic obstructive pulmonary disease, unspecified	Y	Y		0 - 7 days
J69.0 - Pneumonitis due to food and vomit	Y	Y	Y	0 - 7 days
J81 - Pulmonary oedema	Y	Y		0 - 7 days
J95.2 - Acute pulmonary insufficiency following nonthoracic surgery	Y	Y	Y	0 - 7 days
J95.4 - Mendelson's syndrome	Y	Y	Y	0 - 7 days
J95.5 - Postprocedural subglottic stenosis	Y	Y	Y	0 - 7 days
J95.8 - Other postprocedural respiratory disorders	Y	Y	Y	0 - 7 days
J95.9 - Postprocedural respiratory disorder, unspecified	Y	Y	Y	0 - 7 days
J96.0 - Acute respiratory failure	Y	Y	Y	0 - 7 days
J96.1 - Chronic respiratory failure	Y	Y	Y	0 - 7 days
J96.9 - Respiratory failure, unspecified	Y	Y	Y	0 - 7 days
J96.90 - Respiratory failure unspecified, type I	Y	Y	Y	0 - 7 days
J96.91 - Respiratory failure unspecified, type II	Y	Y	Y	0 - 7 days
J96.99 - Respiratory failure unspecified, type unspecified	Y	Y	Y	0 - 7 days
J98.1 - Pulmonary collapse	Y	Y	Y	0 - 7 days
K12.2 - Cellulitis and abscess of mouth			Y	0 - 7 days
K59.0 - Constipation	Y	Y		0 - 7 days
K91.3 - Postprocedural intestinal obstruction	Y	Y		0 - 7 days
K91.8 - Other postprocedural disorders of digestive system, not elsewhere classified			Y	0 - 7 days
K91.9 - Postprocedural disorder of digestive system, unspecified			Y	0 - 7 days
K92.0 - Haematemesis			Y	0 - 7 days
K92.1 - Melaena			Y	0 - 15 days
L03.12 - Cellulitis of upper limb	Y	Y	Y	0 - 7 days
L03.13 - Cellulitis of lower limb	Y	Y		0 - 7 days
L03.2 - Cellulitis of face			Y	0 - 7 days
L23.1 - Allergic contact dermatitis due to adhesives	Y	Y	Y	0 - 7 days
L27.0 - Generalised skin eruption due to drugs and medicaments	Y	Y	Y	0 - 7 days
L27.1 - Localised skin eruption due to drugs and medicaments	Y	Y	Y	0 - 7 days
L89.4 - Pressure injury, unstageable, so stated	Y	Y		0 - 7 days
L89.3 - Pressure injury, stage IV	Y	Y		0 - 7 days
L89.5 - Suspected deep tissue injury, depth unknown, so stated	Y	Y		0 - 7 days
L89.2 - Pressure injury, stage III	Y	Y		0 - 7 days
L89.1 - Pressure injury, stage II	Y	Y		0 - 7 days
L89.0 - Pressure injury, stage I	Y	Y		0 - 7 days
L89.9 - Pressure injury, unspecified stage	Y	Y		0 - 7 days

Principal diagnosis (ICD10-AM 9 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
L89.8 - Suspected deep tissue injury, depth unknown, so stated, other site of lower extremity (excluding heel and toe)	Y	Y		0 - 7 days
L89.7 - Suspected deep tissue injury, depth unknown, so stated, other site of lower extremity (excluding heel and toe)	Y	Y		0 - 7 days
L89.6 - Suspected deep tissue injury, depth unknown, so stated, other site of lower extremity (excluding heel and toe)	Y	Y		0 - 7 days
L89.18 - Pressure injury, stage II, toe	Y	Y		0 - 7 days
L89.16 - Pressure injury, stage II, trochanter	Y	Y		0 - 7 days
L89.15 - Pressure injury, stage II, ischium	Y	Y		0 - 7 days
L89.14 - Pressure injury, stage II, lower back	Y	Y		0 - 7 days
L89.13 - Pressure injury, stage II, upper back	Y	Y		0 - 7 days
L89.17 - Pressure injury, stage II, heel	Y	Y		0 - 7 days
L89.12 - Pressure injury, stage II, upper extremity	Y	Y		0 - 7 days
L89.19 - Pressure injury, stage II, other site of lower extremity (excluding heel and toe)	Y	Y		0 - 7 days
L89.11 - Pressure injury, stage II, head	Y	Y		0 - 7 days
L89.10 - Pressure injury, stage II, site unspecified	Y	Y		0 - 7 days
L89.28 - Pressure injury, stage III, toe	Y	Y		0 - 7 days
L89.27 - Pressure injury, stage III, heel	Y	Y		0 - 7 days
L89.26 - Pressure injury, stage III, trochanter	Y	Y		0 - 7 days
L89.25 - Pressure injury, stage III, ischium	Y	Y		0 - 7 days
L89.24 - Pressure injury, stage III, lower back	Y	Y		0 - 7 days
L89.23 - Pressure injury, stage III, upper back	Y	Y		0 - 7 days
L89.22 - Pressure injury, stage III, upper extremity	Y	Y		0 - 7 days
L89.29 - Pressure injury, stage III, other site of lower extremity (excluding heel and toe)	Y	Y		0 - 7 days
L89.21 - Pressure injury, stage III, head	Y	Y		0 - 7 days
L89.20 - Pressure injury, stage III, site unspecified	Y	Y		0 - 7 days
L89.36 - Pressure injury, stage IV, trochanter	Y	Y		0 - 7 days
L89.35 - Pressure injury, stage IV, ischium	Y	Y		0 - 7 days
L89.34 - Pressure injury, stage IV, lower back	Y	Y		0 - 7 days
L89.37 - Pressure injury, stage IV, heel	Y	Y		0 - 7 days
L89.33 - Pressure injury, stage IV, upper back	Y	Y		0 - 7 days
L89.32 - Pressure injury, stage IV, upper extremity	Y	Y		0 - 7 days
L89.31 - Pressure injury, stage IV, head	Y	Y		0 - 7 days
L89.30 - Pressure injury, stage IV, site unspecified	Y	Y		0 - 7 days
L89.39 - Pressure injury, stage IV, other site of lower extremity (excluding heel and toe)	Y	Y		0 - 7 days
L89.38 - Pressure injury, stage IV, toe	Y	Y		0 - 7 days
L89.58 - Suspected deep tissue injury, depth unknown, so stated, toe	Y	Y		0 - 7 days
L89.57 - Suspected deep tissue injury, depth unknown, so stated, heel	Y	Y		0 - 7 days

Principal diagnosis (ICD10-AM 9 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
L89.56 - Suspected deep tissue injury, depth unknown, so stated, trochanter	Y	Y		0 - 7 days
L89.54 - Suspected deep tissue injury, depth unknown, so stated, lower back	Y	Y		0 - 7 days
L89.53 - Suspected deep tissue injury, depth unknown, so stated, upper back	Y	Y		0 - 7 days
L89.52 - Suspected deep tissue injury, depth unknown, so stated, upper extremity	Y	Y		0 - 7 days
L89.50 - Suspected deep tissue injury, depth unknown, so stated, site unspecified	Y	Y		0 - 7 days
L89.49 - Pressure injury, unstageable, so stated, other site of lower extremity (excluding heel and toe)	Y	Y		0 - 7 days
L89.48 - Pressure injury, unstageable, so stated, toe	Y	Y		0 - 7 days
L89.47 - Pressure injury, unstageable, so stated, heel	Y	Y		0 - 7 days
L89.46 - Pressure injury, unstageable, so stated, trochanter	Y	Y		0 - 7 days
L89.45 - Pressure injury, unstageable, so stated, ischium	Y	Y		0 - 7 days
L89.44 - Pressure injury, unstageable, so stated, lower back	Y	Y		0 - 7 days
L89.43 - Pressure injury, unstageable, so stated, upper back	Y	Y		0 - 7 days
L89.42 - Pressure injury, unstageable, so stated, upper extremity	Y	Y		0 - 7 days
L89.51 - Suspected deep tissue injury, depth unknown, so stated, head	Y	Y		0 - 7 days
L89.41 - Pressure injury, unstageable, so stated, head	Y	Y		0 - 7 days
L89.40 - Pressure injury, unstageable, so stated, site unspecified	Y	Y		0 - 7 days
L89.55 - Suspected deep tissue injury, depth unknown, so stated, ischium	Y	Y		0 - 7 days
L89.99 - Pressure injury, unspecified stage, other site of lower extremity (excluding heel and toe)	Y	Y		0 - 7 days
L89.98 - Pressure injury, unspecified stage, toe	Y	Y		0 - 7 days
L89.97 - Pressure injury, unspecified stage, heel	Y	Y		0 - 7 days
L89.96 - Pressure injury, unspecified stage, trochanter	Y	Y		0 - 7 days
L89.59 - Suspected deep tissue injury, depth unknown, so stated, other site of lower extremity (excluding heel and toe)	Y	Y		0 - 7 days
L89.95 - Pressure injury, unspecified stage, ischium	Y	Y		0 - 7 days
L89.94 - Pressure injury, unspecified stage, lower back	Y	Y		0 - 7 days
L89.93 - Pressure injury, unspecified stage, upper back	Y	Y		0 - 7 days
L89.92 - Pressure injury, unspecified stage, upper extremity	Y	Y		0 - 7 days
L89.91 - Pressure injury, unspecified stage, head	Y	Y		0 - 7 days
L89.90 - Pressure injury, unspecified stage, site unspecified	Y	Y		0 - 7 days
M00.5 - Other streptococcal arthritis and polyarthritis, site unspecified		Y		0 - 60 days
M00.6 - Other streptococcal arthritis and polyarthritis, site unspecified	Y			0 - 60 days
M00.25 - Other streptococcal arthritis and polyarthritis, pelvic region and thigh		Y		0 - 60 days
M00.26 - Other streptococcal arthritis and polyarthritis, lower leg	Y			0 - 60 days
M00.95 - Pyogenic arthritis, unspecified, pelvic region and thigh		Y		0 - 60 days
M00.96 - Pyogenic arthritis, unspecified, lower leg	Y			0 - 60 days

Principal diagnosis (ICD10-AM 9 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
M21.25 - Flexion deformity, pelvic region and thigh		Y		0 - 60 days
M21.26 - Flexion deformity, lower leg	Y			0 - 60 days
M21.30 - Wrist or foot drop (acquired), multiple sites	Y	Y		0 - 60 days
M21.37 - Wrist or foot drop (acquired), ankle and foot	Y	Y		0 - 60 days
M21.75 - Unequal limb length (acquired), pelvic region and thigh		Y		0 - 60 days
M21.76 - Unequal limb length (acquired), lower leg	Y	Y		0 - 60 days
M24.45 - Recurrent dislocation and subluxation of joint, pelvic region and thigh		Y		0 - 60 days
M24.46 - Recurrent dislocation and subluxation of joint, lower leg	Y			0 - 60 days
M24.65 - Ankylosis of joint, pelvic region and thigh		Y		0 - 60 days
M24.66 - Ankylosis of joint, lower leg	Y			0 - 60 days
M25.5 - Pain in joint		Y		0 - 60 days
M25.6 - Stiffness of joint, not elsewhere classified	Y			0 - 60 days
M25.45 - Effusion of joint, pelvic region and thigh		Y		0 - 60 days
M25.46 - Effusion of joint, lower leg	Y			0 - 60 days
M25.55 - Pain in a joint, pelvic region and thigh		Y		0 - 60 days
M25.56 - Pain in a joint, lower leg	Y			0 - 60 days
M25.65 - Stiffness of joint, not elsewhere classified, pelvic region and thigh		Y		0 - 60 days
M25.66 - Stiffness of joint, not elsewhere classified, lower leg	Y			0 - 60 days
M25.85 - Other specified joint disorders, pelvic region and thigh		Y		0 - 60 days
M25.86 - Other specified joint disorders, lower leg	Y			0 - 60 days
M25.95 - Unspecified joint disorder, pelvic region and thigh		Y		0 - 60 days
M25.96 - Unspecified joint disorder, lower leg	Y			0 - 60 days
M79.15 - Myalgia, pelvic region and thigh	Y	Y		0 - 60 days
M79.16 - Myalgia, lower leg	Y	Y		0 - 60 days
M79.25 - Neuralgia and neuritis, unspecified, pelvic region and thigh	Y	Y		0 - 60 days
M79.26 - Neuralgia and neuritis, unspecified, lower leg	Y	Y		0 - 60 days
M79.55 - Residual foreign body in soft tissue, pelvic region and thigh	Y	Y		0 - 60 days
M79.56 - Residual foreign body in soft tissue, lower leg	Y			0 - 60 days
M79.65 - Pain in limb, pelvic region and thigh	Y	Y		0 - 60 days
M79.66 - Pain in limb, lower leg	Y	Y		0 - 60 days
M79.67 - Pain in limb, ankle and foot	Y	Y		0 - 60 days
M79.69 - Pain in limb, site unspecified	Y	Y		0 - 60 days
M84.35 - Stress fracture, not elsewhere classified, pelvic region and thigh		Y		0 - 60 days
M84.36 - Stress fracture, not elsewhere classified, lower leg	Y			0 - 60 days
M87.5 - Other secondary osteonecrosis, site unspecified		Y		0 - 60 days
M87.6 - Other secondary osteonecrosis, site unspecified	Y			0 - 60 days

Principal diagnosis (ICD10-AM 9 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
M87.25 - Osteonecrosis due to previous trauma, pelvic region and thigh		Y		0 - 60 days
M87.26 - Osteonecrosis due to previous trauma, lower leg	Y			0 - 60 days
M87.85 - Other osteonecrosis, pelvic region and thigh		Y		0 - 60 days
M87.86 - Other osteonecrosis, lower leg	Y			0 - 60 days
M87.95 - Unspecified osteonecrosis, pelvic region and thigh		Y		0 - 60 days
M87.96 - Unspecified osteonecrosis, lower leg	Y			0 - 60 days
M96.6 - Fracture of bone following insertion of orthopaedic implant, joint prosthesis, or bone plate	Y	Y		0 - 60 days
M96.8 - Other postprocedural musculoskeletal disorders	Y	Y		0 - 60 days
M96.9 - Postprocedural musculoskeletal disorder, unspecified	Y	Y		0 - 60 days
N17.0 - Acute kidney failure with tubular necrosis	Y	Y	Y	0 - 60 days
N17.1 - Acute kidney failure with acute cortical necrosis	Y	Y	Y	0 - 7 days
N17.2 - Acute kidney failure with medullary necrosis	Y	Y	Y	0 - 7 days
N17.8 - Other acute kidney failure	Y	Y	Y	0 - 7 days
N17.9 - Acute kidney failure, unspecified	Y	Y	Y	0 - 7 days
N30.0 - Acute cystitis	Y	Y		0 - 7 days
N30.3 - Trigonitis	Y	Y		0 - 60 days
N30.8 - Other cystitis	Y	Y		0 - 60 days
N30.9 - Cystitis, unspecified	Y	Y		0 - 60 days
N31.2 - Flaccid neuropathic bladder, not elsewhere classified	Y	Y		0 - 60 days
N31.8 - Other neuromuscular dysfunction of bladder	Y	Y		0 - 60 days
N31.9 - Neuromuscular dysfunction of bladder, unspecified	Y	Y		0 - 60 days
N39.0 - Urinary tract infection, site not specified	Y	Y		0 - 60 days
N39.3 - Stress incontinence	Y	Y		0 - 60 days
N39.4 - Other specified urinary incontinence	Y	Y		0 - 60 days
N99.0 - Postprocedural kidney failure	Y	Y	Y	0 - 60 days
N99.1 - Postprocedural urethral stricture	Y	Y		0 - 7 days
R00.0 - Tachycardia, unspecified	Y	Y		0 - 60 days
R00.1 - Bradycardia, unspecified	Y	Y		0 - 7 days
R00.2 - Palpitations	Y	Y		0 - 7 days
R00.8 - Other and unspecified abnormalities of heart beat	Y	Y		0 - 7 days
R04.1 - Haemorrhage from throat			Y	0 - 7 days
R04.2 - Haemoptysis			Y	0 - 15 days
R06.0 - Dyspnoea	Y	Y	Y	0 - 15 days
R06.1 - Stridor			Y	0 - 7 days
R07.0 - Pain in throat			Y	0 - 15 days
R11 - Nausea and vomiting	Y	Y	Y	0 - 7 days
R13 - Dysphagia			Y	0 - 15 days

Principal diagnosis (ICD10-AM 9 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
R26.2 - Difficulty in walking, not elsewhere classified	Y	Y		0 - 60 days
R26.8 - Other and unspecified abnormalities of gait and mobility	Y	Y		0 - 60 days
R30.0 - Dysuria	Y	Y		0 - 7 days
R30.1 - Vesical tenesmus	Y	Y		0 - 7 days
R30.9 - Painful micturition, unspecified	Y	Y		0 - 7 days
R31 - Unspecified haematuria	Y	Y		0 - 7 days
R32 - Unspecified urinary incontinence	Y	Y		0 - 7 days
R33 - Retention of urine	Y	Y		0 - 7 days
R34 - Anuria and oliguria	Y	Y		0 - 7 days
R39.1 - Other difficulties with micturition	Y	Y		0 - 60 days
R39.8 - Other and unspecified symptoms and signs involving the urinary system	Y	Y		0 - 60 days
R41.0 - Disorientation, unspecified	Y	Y		0 - 7 days
R42 - Dizziness and giddiness	Y	Y		0 - 7 days
R49.0 - Dysphonia			Y	0 - 15 days
R50.2 - Drug-induced fever	Y	Y	Y	0 - 7 days
R50.8 - Other specified fever	Y	Y	Y	0 - 7 days
R50.9 - Fever, unspecified	Y	Y	Y	0 - 7 days
R53 - Malaise and fatigue	Y	Y	Y	0 - 7 days
R55 - Syncope and collapse	Y	Y		0 - 7 days
R58 - Haemorrhage, not elsewhere classified	Y	Y	Y	0 - 60 days
R63.0 - Anorexia			Y	0 - 7 days
R63.3 - Feeding difficulties and mismanagement			Y	0 - 7 days
R63.8 - Other symptoms and signs concerning food and fluid intake			Y	0 - 7 days
R79.0 - Abnormal level of blood mineral	Y	Y	Y	0 - 7 days
R79.8 - Other specified abnormal findings of blood chemistry	Y	Y	Y	0 - 7 days
R79.9 - Abnormal finding of blood chemistry, unspecified	Y	Y	Y	0 - 7 days
S06.1 - Traumatic cerebral oedema	Y	Y		0 - 7 days
S06.30 - Focal cerebral and cerebellar injury, unspecified	Y	Y		0 - 7 days
S06.31 - Focal cerebral contusion	Y	Y		0 - 7 days
S06.32 - Focal cerebellar contusion	Y	Y		0 - 7 days
S06.33 - Focal cerebral haematoma	Y	Y		0 - 7 days
S06.34 - Focal cerebellar haematoma	Y	Y		0 - 7 days
S06.38 - Other focal cerebral and cerebellar injury	Y	Y		0 - 7 days
S06.4 - Epidural haemorrhage	Y	Y		0 - 7 days
S06.5 - Traumatic subdural haemorrhage	Y	Y		0 - 7 days
S06.6 - Traumatic subarachnoid haemorrhage	Y	Y		0 - 7 days
S06.8 - Other intracranial injuries	Y	Y		0 - 7 days

Principal diagnosis (ICD10-AM 9 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
S30.2 - Contusion of external genital organs		Y		0 - 7 days
S37.30 - Injury of urethra, part unspecified	Y	Y		0 - 7 days
S37.31 - Injury of membranous urethra	Y	Y		0 - 7 days
S37.32 - Injury of penile urethra	Y	Y		0 - 7 days
S37.33 - Injury of prostatic urethra	Y	Y		0 - 7 days
S37.38 - Injury of other part of urethra	Y	Y		0 - 7 days
S72.0 - Fracture of neck of femur	Y	Y		0 - 7 days
S72.1 - Pertrochanteric fracture	Y	Y		0 - 7 days
S72.2 - Subtrochanteric fracture	Y	Y		0 - 7 days
S72.3 - Fracture of shaft of femur	Y	Y		0 - 7 days
S72.4 - Fracture of lower end of femur	Y	Y		0 - 7 days
S72.5 - Intercondylar fracture of femur	Y	Y		0 - 7 days
S72.8 - Fractures of other parts of femur	Y	Y		0 - 7 days
S73.0 - Dislocation of hip		Y		0 - 7 days
S73.1 - Sprain and strain of hip		Y		0 - 60 days
S73.2 - Sprain and strain of other specified sites of hip		Y		0 - 60 days
S73.8 - Sprain and strain of other specified sites of hip		Y		0 - 60 days
S73.10 - Sprain and strain of hip, part unspecified		Y		0 - 60 days
S73.11 - Sprain and strain of iliofemoral (ligament)		Y		0 - 60 days
S73.12 - Sprain and strain of ischiocapsular (ligament)		Y		0 - 60 days
S73.18 - Sprain and strain of other specified sites of hip		Y		0 - 60 days
S74.0 - Injury of sciatic nerve at hip and thigh level	Y	Y		0 - 7 days
S74.1 - Injury of femoral nerve at hip and thigh level	Y	Y		0 - 7 days
S74.2 - Injury of cutaneous sensory nerve at hip and thigh level	Y	Y		0 - 7 days
S74.7 - Injury of multiple nerves at hip and thigh level	Y	Y		0 - 7 days
S74.8 - Injury of other nerves at hip and thigh level	Y	Y		0 - 7 days
S74.9 - Injury of unspecified nerve at hip and thigh level	Y	Y		0 - 7 days
S75.0 - Injury of femoral artery	Y	Y		0 - 15 days
S75.1 - Injury of femoral vein at hip and thigh level	Y	Y		0 - 15 days
S75.2 - Injury of greater saphenous vein at hip and thigh level	Y	Y		0 - 15 days
S75.7 - Injury of multiple blood vessels at hip and thigh level	Y	Y		0 - 15 days
S75.8 - Injury of other blood vessels at hip and thigh level	Y	Y		0 - 15 days
S75.9 - Injury of unspecified blood vessel at hip and thigh level	Y	Y		0 - 15 days
T40.2 - Other opioids	Y	Y	Y	0 - 7 days
T40.4 - Other synthetic narcotics	Y	Y	Y	0 - 7 days
T40.6 - Other and unspecified narcotics	Y	Y	Y	0 - 7 days
T45.5 - Anticoagulants	Y	Y		0 - 7 days

Principal diagnosis (ICD10-AM 9 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
T80.1 - Vascular complications following infusion, transfusion and therapeutic injection	Y	Y	Y	0 - 7 days
T80.2 - Infections following infusion, transfusion and therapeutic injection	Y	Y	Y	0 - 7 days
T81.0 - Haemorrhage and haematoma complicating a procedure, not elsewhere classified	Y	Y	Y	0 - 60 days
T81.2 - Accidental puncture and laceration during a procedure, not elsewhere classified	Y	Y	Y	0 - 60 days
T81.3 - Disruption of operation wound, not elsewhere classified	Y	Y	Y	0 - 60 days
T83.0 - Mechanical complication of urinary (indwelling) catheter	Y	Y		0 - 7 days
T84.0 - Mechanical complication of internal joint prosthesis	Y	Y		0 - 60 days
T84.1 - Mechanical complication of internal fixation device of bones of limb	Y	Y		0 - 60 days
T84.2 - Mechanical complication of internal fixation device of other bones	Y	Y		0 - 60 days
T84.3 - Mechanical complication of other bone devices, implants and grafts	Y	Y		0 - 60 days
T84.4 - Mechanical complication of other internal orthopaedic devices, implants and grafts	Y	Y		0 - 60 days
T84.5 - Infection and inflammatory reaction due to internal joint prosthesis	Y	Y		0 - 60 days
T84.6 - Infection and inflammatory reaction due to internal fixation device [any site]	Y	Y		0 - 60 days
T84.7 - Infection and inflammatory reaction due to other internal orthopaedic prosthetic devices, implants and grafts	Y	Y		0 - 60 days
T84.8 - Other complications of internal orthopaedic prosthetic devices, implants and grafts	Y	Y		0 - 60 days
T84.9 - Unspecified complication of internal orthopaedic prosthetic device, implant and graft	Y	Y		0 - 60 days
T85.9 - Unspecified complication of internal prosthetic device, implant and graft	Y	Y		0 - 60 days
T88.5 - Other complications of anaesthesia	Y	Y	Y	0 - 7 days
T88.7 - Unspecified adverse effect of drug or medicament	Y	Y	Y	0 - 7 days
T88.8 - Other specified complications of surgical and medical care, not elsewhere classified	Y	Y	Y	0 - 60 days
T88.9 - Complication of surgical and medical care, unspecified	Y	Y	Y	0 - 60 days
Z46.6 - Fitting and adjustment of urinary device	Y	Y		0 - 60 days
Z74.0 - Need for assistance due to reduced mobility	Y	Y		0 - 7 days

Principal diagnosis (ICD10-AM 10 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
A047 - Enterocolitis due to Clostridium difficile	Y	Y	Y	0 - 30 days
A400 - Sepsis due to streptococcus, group A	Y	Y	Y	0 - 7 days
A401 - Sepsis due to streptococcus, group B	Y	Y	Y	0 - 7 days
A402 - Sepsis due to streptococcus, group D and enterococcus	Y	Y	Y	0 - 7 days
A403 - Sepsis due to Streptococcus pneumoniae	Y	Y	Y	0 - 7 days
A408 - Other streptococcal sepsis	Y	Y	Y	0 - 7 days
A409 - Streptococcal sepsis, unspecified	Y	Y	Y	0 - 7 days
A410 - Sepsis due to Staphylococcus aureus	Y	Y	Y	0 - 7 days
A411 - Sepsis due to other specified staphylococcus	Y	Y	Y	0 - 7 days
A412 - Sepsis due to unspecified staphylococcus	Y	Y	Y	0 - 7 days
A413 - Sepsis due to Haemophilus influenzae	Y	Y	Y	0 - 7 days
A414 - Sepsis due to anaerobes	Y	Y	Y	0 - 7 days
A4150 - Sepsis due to unspecified Gram-negative organisms	Y	Y	Y	0 - 7 days
A4151 - Sepsis due to Escherichia coli [E. Coli]	Y	Y	Y	0 - 7 days
A4152 - Sepsis due to Pseudomonas	Y	Y	Y	0 - 7 days
A4158 - Sepsis due to other Gram-negative organisms	Y	Y	Y	0 - 7 days
A418 - Other specified sepsis	Y	Y	Y	0 - 7 days
A419 - Sepsis, unspecified	Y	Y	Y	0 - 7 days
A4900 - Staphylococcal infection, unspecified site	Y	Y	Y	0 - 7 days
A4901 - Staphylococcus aureus infection, unspecified site	Y	Y	Y	0 - 7 days
A491 - Streptococcal and enterococcal infection, unspecified site	Y	Y	Y	0 - 7 days
A492 - Haemophilus influenzae infection, unspecified site	Y	Y	Y	0 - 7 days
A493 - Mycoplasma infection, unspecified site	Y	Y	Y	0 - 7 days
A498 - Other bacterial infections of unspecified site	Y	Y	Y	0 - 7 days
A499 - Bacterial infection, unspecified	Y	Y	Y	0 - 7 days
D500 - Iron deficiency anaemia secondary to blood loss (chronic)	Y	Y	Y	0 - 7 days
D508 - Other iron deficiency anaemias	Y	Y		0 - 7 days
D509 - Iron deficiency anaemia, unspecified	Y	Y		0 - 7 days
D62 - Acute posthaemorrhagic anaemia	Y	Y		0 - 7 days
D649 - Anaemia, unspecified	Y	Y	Y	0 - 15 days
D683 - Haemorrhagic disorder due to circulating anticoagulants	Y	Y		0 - 7 days
D684 - Acquired coagulation factor deficiency	Y	Y	Y	0 - 7 days
D685 - Primary thrombophilia	Y	Y	Y	0 - 7 days
D686 - Other thrombophilia	Y	Y	Y	0 - 7 days
D688 - Other specified coagulation defects	Y	Y	Y	0 - 7 days
D689 - Coagulation defect, unspecified	Y	Y	Y	0 - 7 days
D695 - Secondary thrombocytopenia	Y	Y	Y	0 - 7 days

Principal diagnosis (ICD10-AM 10 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
D696 - Thrombocytopenia, unspecified	Y	Y	Y	0 - 7 days
D698 - Other specified haemorrhagic conditions	Y	Y	Y	0 - 7 days
D699 - Haemorrhagic condition, unspecified	Y	Y	Y	0 - 7 days
E1001 - Type 1 diabetes mellitus with hyperosmolarity without nonketotic hyperglycaemic-hyperosmolar coma (NKHHC)	Y	Y	Y	0 - 7 days
E1002 - Type 1 diabetes mellitus with hyperosmolarity with coma	Y	Y	Y	0 - 7 days
E1011 - Type 1 diabetes mellitus with ketoacidosis, without coma	Y	Y	Y	0 - 7 days
E1012 - Type 1 diabetes mellitus with ketoacidosis, with coma	Y	Y	Y	0 - 7 days
E1013 - Type 1 diabetes mellitus with lactic acidosis, without coma	Y	Y	Y	0 - 7 days
E1014 - Type 1 diabetes mellitus with lactic acidosis, with coma	Y	Y	Y	0 - 7 days
E1015 - Type 1 diabetes mellitus with ketoacidosis, with lactic acidosis, without coma	Y	Y	Y	0 - 7 days
E1016 - Type 1 diabetes mellitus with ketoacidosis, with lactic acidosis, with coma	Y	Y	Y	0 - 7 days
E1064 - Type 1 diabetes mellitus with hypoglycaemia	Y	Y	Y	0 - 7 days
E1065 - Type 1 diabetes mellitus with poor control	Y	Y	Y	0 - 7 days
E1101 - Type 2 diabetes mellitus with hyperosmolarity without nonketotic hyperglycaemic-hyperosmolar coma [NKHHC]	Y	Y	Y	0 - 7 days
E1102 - Type 2 diabetes mellitus with hyperosmolarity with coma	Y	Y	Y	0 - 7 days
E1111 - Type 2 diabetes mellitus with ketoacidosis, without coma	Y	Y	Y	0 - 7 days
E1112 - Type 2 diabetes mellitus with ketoacidosis, with coma	Y	Y	Y	0 - 7 days
E1113 - Type 2 diabetes mellitus with lactic acidosis, without coma	Y	Y	Y	0 - 7 days
E1114 - Type 2 diabetes mellitus with lactic acidosis, with coma	Y	Y	Y	0 - 7 days
E1115 - Type 2 diabetes mellitus with ketoacidosis, with lactic acidosis, without coma	Y	Y	Y	0 - 7 days
E1116 - Type 2 diabetes mellitus with ketoacidosis, with lactic acidosis, with coma	Y	Y	Y	0 - 7 days
E1164 - Type 2 diabetes mellitus with hypoglycaemia	Y	Y	Y	0 - 7 days
E1165 - Type 2 diabetes mellitus with poor control	Y	Y	Y	0 - 7 days
E1301 - Other specified diabetes mellitus with hyperosmolarity, without nonketotic hyperglycaemic-hyperosmolar coma [NKHHC]	Y	Y	Y	0 - 7 days
E1302 - Other specified diabetes mellitus with hyperosmolarity, with coma	Y	Y	Y	0 - 7 days
E1311 - Other specified diabetes mellitus with ketoacidosis, without coma	Y	Y	Y	0 - 7 days
E1312 - Other specified diabetes mellitus with ketoacidosis, with coma	Y	Y	Y	0 - 7 days
E1313 - Other specified diabetes mellitus with lactic acidosis, without coma	Y	Y	Y	0 - 7 days
E1314 - Other specified diabetes mellitus with lactic acidosis, with coma	Y	Y	Y	0 - 7 days
E1315 - Other specified diabetes mellitus with ketoacidosis, with lactic acidosis, without coma	Y	Y	Y	0 - 7 days
E1316 - Other specified diabetes mellitus with ketoacidosis, with lactic acidosis, with coma	Y	Y	Y	0 - 7 days
E1364 - Other specified diabetes mellitus with hypoglycaemia	Y	Y	Y	0 - 7 days
E1365 - Other specified diabetes mellitus with poor control	Y	Y	Y	0 - 7 days

Principal diagnosis (ICD10-AM 10 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
E1401 - Unspecified diabetes mellitus with hyperosmolarity, without nonketotic hyperglycaemic-hyperosmolar coma [NKHHC]	Y	Y	Y	0 - 7 days
E1402 - Unspecified diabetes mellitus with hyperosmolarity, with coma	Y	Y	Y	0 - 7 days
E1411 - Unspecified diabetes mellitus with ketoacidosis, without coma	Y	Y	Y	0 - 7 days
E1412 - Unspecified diabetes mellitus with ketoacidosis, with coma	Y	Y	Y	0 - 7 days
E1413 - Unspecified diabetes mellitus with lactic acidosis, without coma	Y	Y	Y	0 - 7 days
E1414 - Unspecified diabetes mellitus with lactic acidosis, with coma	Y	Y	Y	0 - 7 days
E1415 - Unspecified diabetes mellitus with ketoacidosis, with lactic acidosis, without coma	Y	Y	Y	0 - 7 days
E1416 - Unspecified diabetes mellitus with ketoacidosis, with lactic acidosis, with coma	Y	Y	Y	0 - 7 days
E1464 - Unspecified diabetes mellitus with hypoglycaemia	Y	Y	Y	0 - 7 days
E1465 - Unspecified diabetes mellitus with poor control	Y	Y	Y	0 - 7 days
E272 - Addisonian crisis	Y	Y	Y	0 - 7 days
E86 - Volume depletion	Y	Y	Y	0 - 7 days
E870 - Hyperosmolality and hypernatraemia	Y	Y	Y	0 - 7 days
E871 - Hypo-osmolality and hyponatraemia	Y	Y	Y	0 - 7 days
E872 - Acidosis	Y	Y	Y	0 - 7 days
E873 - Alkalosis	Y	Y	Y	0 - 7 days
E874 - Mixed disorder of acid-base balance	Y	Y	Y	0 - 7 days
E875 - Hyperkalaemia	Y	Y	Y	0 - 7 days
E876 - Hypokalaemia	Y	Y	Y	0 - 7 days
E877 - Fluid overload	Y	Y	Y	0 - 7 days
E878 - Other disorders of electrolyte and fluid balance, not elsewhere classified	Y	Y	Y	0 - 7 days
F059 - Delirium, unspecified	Y	Y	Y	0 - 7 days
F102 - Mental and behavioural disorders due to use of alcohol, dependence syndrome	Y	Y		0 - 7 days
F105 - Mental and behavioural disorders due to use of alcohol, psychotic disorder	Y	Y		0 - 7 days
F112 - Mental and behavioural disorders due to use of opioids, dependence syndrome	Y	Y		0 - 7 days
F115 - Mental and behavioural disorders due to use of opioids, psychotic disorder	Y	Y		0 - 7 days
G450 - Vertebro-basilar artery syndrome	Y	Y		0 - 7 days
G451 - Carotid artery syndrome (hemispheric)	Y	Y		0 - 7 days
G452 - Multiple and bilateral precerebral artery syndromes	Y	Y		0 - 7 days
G453 - Amaurosis fugax	Y	Y		0 - 7 days
G454 - Transient global amnesia	Y	Y		0 - 7 days
G458 - Other transient cerebral ischaemic attacks and related syndromes	Y	Y		0 - 7 days
G459 - Transient cerebral ischaemic attack, unspecified	Y	Y		0 - 7 days
G540 - Brachial plexus disorders	Y	Y		0 - 7 days

Principal diagnosis (ICD10-AM 10 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
G541 - Lumbosacral plexus disorders	Y	Y		0 - 7 days
G560 - Carpal tunnel syndrome	Y	Y		0 - 7 days
G561 - Other lesions of median nerve	Y	Y		0 - 7 days
G562 - Lesion of ulnar nerve	Y	Y		0 - 7 days
G563 - Lesion of radial nerve	Y	Y		0 - 7 days
G564 - Causalgia of upper limb	Y	Y		0 - 7 days
G568 - Other mononeuropathies of upper limb	Y	Y		0 - 7 days
G569 - Mononeuropathy of upper limb, unspecified	Y	Y		0 - 7 days
G570 - Lesion of sciatic nerve	Y	Y	Y	0 - 7 days
G571 - Meralgia paraesthetica	Y	Y	Y	0 - 7 days
G572 - Lesion of femoral nerve	Y	Y	Y	0 - 7 days
G573 - Lesion of lateral popliteal nerve	Y	Y	Y	0 - 7 days
G574 - Lesion of medial popliteal nerve	Y	Y	Y	0 - 7 days
G575 - Tarsal tunnel syndrome	Y	Y	Y	0 - 7 days
G576 - Lesion of plantar nerve	Y	Y	Y	0 - 7 days
G577 - Causalgia of lower limb	Y	Y	Y	0 - 7 days
G578 - Other mononeuropathies of lower limb	Y	Y	Y	0 - 7 days
G579 - Mononeuropathy of lower limb, unspecified	Y	Y	Y	0 - 7 days
G970 - Postprocedural cerebrospinal fluid leak	Y	Y		0 - 7 days
G9711 - Headache following spinal and lumbar puncture	Y	Y		0 - 7 days
G9719 - Reaction to spinal and lumbar puncture, not elsewhere classified	Y	Y		0 - 7 days
G978 - Other intraoperative and postprocedural disorders of nervous system	Y	Y		0 - 7 days
G979 - Intraoperative and postprocedural disorder of nervous system, unspecified	Y	Y	Y	0 - 7 days
H024 - Ptosis of eyelid	Y	Y	Y	0 - 7 days
I200 - Unstable angina	Y	Y		0 - 7 days
I201 - Angina pectoris with documented spasm	Y	Y		0 - 7 days
I208 - Other forms of angina pectoris	Y	Y		0 - 7 days
I209 - Angina pectoris, unspecified	Y	Y		0 - 7 days
I210 - Acute transmural myocardial infarction of anterior wall	Y	Y		0 - 7 days
I211 - Acute transmural myocardial infarction of inferior wall	Y	Y		0 - 7 days
I212 - Acute transmural myocardial infarction of other sites	Y	Y		0 - 7 days
I213 - Acute transmural myocardial infarction of unspecified site	Y	Y		0 - 7 days
I214 - Acute subendocardial myocardial infarction	Y	Y		0 - 7 days
I219 - Acute myocardial infarction, unspecified	Y	Y		0 - 7 days
I240 - Coronary thrombosis not resulting in myocardial infarction	Y	Y		0 - 7 days
I241 - Dressler's syndrome	Y	Y		0 - 7 days

Principal diagnosis (ICD10-AM 10 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
I248 - Other forms of acute ischaemic heart disease	Y	Y		0 - 7 days
I249 - Acute ischaemic heart disease, unspecified	Y	Y		0 - 7 days
I260 - Pulmonary embolism with mention of acute cor pulmonale	Y	Y		0 - 7 days
I269 - Pulmonary embolism without mention of acute cor pulmonale	Y	Y		0 - 7 days
I330 - Acute and subacute infective endocarditis	Y	Y	Y	0 - 60 days
I339 - Acute endocarditis, unspecified	Y	Y	Y	0 - 60 days
I38 - Endocarditis, valve unspecified	Y	Y	Y	0 - 15 days
I450 - Right fascicular block	Y	Y		0 - 7 days
I451 - Other and unspecified right bundle-branch block	Y	Y		0 - 7 days
I452 - Bifascicular block	Y	Y		0 - 7 days
I453 - Trifascicular block	Y	Y		0 - 7 days
I454 - Nonspecific intraventricular block	Y	Y		0 - 7 days
I455 - Other specified heart block	Y	Y		0 - 7 days
I456 - Pre-excitation syndrome	Y	Y		0 - 7 days
I458 - Other specified conduction disorders	Y	Y		0 - 7 days
I459 - Conduction disorder, unspecified	Y	Y		0 - 7 days
I460 - Cardiac arrest with successful resuscitation	Y	Y	Y	0 - 7 days
I461 - Sudden cardiac death, so described	Y	Y	Y	0 - 7 days
I469 - Cardiac arrest, unspecified	Y	Y	Y	0 - 7 days
I470 - Re-entry ventricular arrhythmia	Y	Y		0 - 7 days
I471 - Supraventricular tachycardia	Y	Y		0 - 7 days
I472 - Ventricular tachycardia	Y	Y		0 - 7 days
I479 - Paroxysmal tachycardia, unspecified	Y	Y		0 - 7 days
I480 - Paroxysmal atrial fibrillation	Y	Y		0 - 7 days
I481 - Persistent atrial fibrillation	Y	Y		0 - 7 days
I482 - Chronic atrial fibrillation	Y	Y		0 - 7 days
I483 - Typical atrial flutter	Y	Y		0 - 7 days
I484 - Atypical atrial flutter	Y	Y		0 - 7 days
I489 - Atrial fibrillation and atrial flutter, unspecified	Y	Y		0 - 7 days
I490 - Ventricular fibrillation and flutter	Y	Y		0 - 7 days
I491 - Atrial premature depolarisation	Y	Y		0 - 7 days
I492 - Junctional premature depolarisation	Y	Y		0 - 7 days
I493 - Ventricular premature depolarisation	Y	Y		0 - 7 days
I494 - Other and unspecified premature depolarisation	Y	Y		0 - 7 days
I495 - Sick sinus syndrome	Y	Y		0 - 7 days
I498 - Other specified cardiac arrhythmias	Y	Y		0 - 7 days
I499 - Cardiac arrhythmia, unspecified	Y	Y		0 - 7 days

Principal diagnosis (ICD10-AM 10 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
I500 - Congestive heart failure	Y	Y		0 - 7 days
I501 - Left ventricular failure	Y	Y		0 - 7 days
I509 - Heart failure, unspecified	Y	Y		0 - 7 days
I510 - Cardiac septal defect, acquired	Y	Y		0 - 7 days
I511 - Rupture of chordae tendineae, not elsewhere classified	Y	Y		0 - 7 days
I512 - Rupture of papillary muscle, not elsewhere classified	Y	Y		0 - 7 days
I513 - Intracardiac thrombosis, not elsewhere classified	Y	Y		0 - 7 days
I514 - Myocarditis, unspecified	Y	Y		0 - 7 days
I515 - Myocardial degeneration	Y	Y		0 - 7 days
I516 - Cardiovascular disease, unspecified	Y	Y		0 - 7 days
I517 - Cardiomegaly	Y	Y		0 - 7 days
I518 - Other ill-defined heart diseases	Y	Y		0 - 7 days
I519 - Heart disease, unspecified	Y	Y		0 - 7 days
I600 - Subarachnoid haemorrhage from carotid siphon and bifurcation	Y	Y		0 - 7 days
I601 - Subarachnoid haemorrhage from middle cerebral artery	Y	Y		0 - 7 days
I602 - Subarachnoid haemorrhage from anterior communicating artery	Y	Y		0 - 7 days
I603 - Subarachnoid haemorrhage from posterior communicating artery	Y	Y		0 - 7 days
I604 - Subarachnoid haemorrhage from basilar artery	Y	Y		0 - 7 days
I605 - Subarachnoid haemorrhage from vertebral artery	Y	Y		0 - 7 days
I606 - Subarachnoid haemorrhage from other intracranial arteries	Y	Y		0 - 7 days
I607 - Subarachnoid haemorrhage from intracranial artery, unspecified	Y	Y		0 - 7 days
I608 - Other subarachnoid haemorrhage	Y	Y		0 - 7 days
I609 - Subarachnoid haemorrhage, unspecified	Y	Y		0 - 7 days
I610 - Intracerebral haemorrhage in hemisphere, subcortical	Y	Y		0 - 7 days
I611 - Intracerebral haemorrhage in hemisphere, cortical	Y	Y		0 - 7 days
I612 - Intracerebral haemorrhage in hemisphere, unspecified	Y	Y		0 - 7 days
I613 - Intracerebral haemorrhage in brain stem	Y	Y		0 - 7 days
I614 - Intracerebral haemorrhage in cerebellum	Y	Y		0 - 7 days
I615 - Intracerebral haemorrhage, intraventricular	Y	Y		0 - 7 days
I616 - Intracerebral haemorrhage, multiple localised	Y	Y		0 - 7 days
I618 - Other intracerebral haemorrhage	Y	Y		0 - 7 days
I619 - Intracerebral haemorrhage, unspecified	Y	Y		0 - 7 days
I620 - Subdural haemorrhage (acute)(nontraumatic)	Y	Y		0 - 7 days
I621 - Nontraumatic extradural haemorrhage	Y	Y		0 - 7 days
I629 - Intracranial haemorrhage (nontraumatic), unspecified	Y	Y		0 - 7 days
I630 - Cerebral infarction due to thrombosis of precerebral arteries	Y	Y		0 - 7 days

Principal diagnosis (ICD10-AM 10 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
I631 - Cerebral infarction due to embolism of precerebral arteries	Y	Y		0 - 7 days
I632 - Cerebral infarction due to unspecified occlusion or stenosis of precerebral arteries	Y	Y		0 - 7 days
I633 - Cerebral infarction due to thrombosis of cerebral arteries	Y	Y		0 - 7 days
I634 - Cerebral infarction due to embolism of cerebral arteries	Y	Y		0 - 7 days
I635 - Cerebral infarction due to unspecified occlusion or stenosis of cerebral arteries	Y	Y		0 - 7 days
I636 - Cerebral infarction due to cerebral venous thrombosis, nonpyogenic	Y	Y		0 - 7 days
I638 - Other cerebral infarction	Y	Y		0 - 7 days
I639 - Cerebral infarction, unspecified	Y	Y		0 - 7 days
I64 - Stroke, not specified as haemorrhage or infarction	Y	Y		0 - 7 days
I650 - Occlusion and stenosis of vertebral artery	Y	Y		0 - 7 days
I651 - Occlusion and stenosis of basilar artery	Y	Y		0 - 7 days
I652 - Occlusion and stenosis of carotid artery	Y	Y		0 - 7 days
I653 - Occlusion and stenosis of multiple and bilateral precerebral arteries	Y	Y		0 - 7 days
I658 - Occlusion and stenosis of other precerebral artery	Y	Y		0 - 7 days
I659 - Occlusion and stenosis of unspecified precerebral artery	Y	Y		0 - 7 days
I660 - Occlusion and stenosis of middle cerebral artery	Y	Y		0 - 7 days
I661 - Occlusion and stenosis of anterior cerebral artery	Y	Y		0 - 7 days
I662 - Occlusion and stenosis of posterior cerebral artery	Y	Y		0 - 7 days
I663 - Occlusion and stenosis of cerebellar arteries	Y	Y		0 - 7 days
I664 - Occlusion and stenosis of multiple and bilateral cerebral arteries	Y	Y		0 - 7 days
I668 - Occlusion and stenosis of other cerebral artery	Y	Y		0 - 7 days
I669 - Occlusion and stenosis of unspecified cerebral artery	Y	Y		0 - 7 days
I740 - Embolism and thrombosis of abdominal aorta	Y	Y		0 - 7 days
I741 - Embolism and thrombosis of other and unspecified parts of aorta	Y	Y		0 - 7 days
I742 - Embolism and thrombosis of arteries of upper extremities	Y	Y		0 - 7 days
I743 - Embolism and thrombosis of arteries of lower extremities	Y	Y		0 - 7 days
I744 - Embolism and thrombosis of arteries of extremities, unspecified	Y	Y		0 - 7 days
I745 - Embolism and thrombosis of iliac artery	Y	Y		0 - 7 days
I748 - Embolism and thrombosis of other arteries	Y	Y		0 - 7 days
I749 - Embolism and thrombosis of unspecified artery	Y	Y		0 - 7 days
I800 - Phlebitis and thrombophlebitis of superficial vessels of lower extremities	Y	Y	Y	0 - 60 days
I801 - Phlebitis and thrombophlebitis of femoral vein	Y	Y	Y	0 - 60 days
I8020 - Phlebitis and thrombophlebitis of deep vessels of lower extremities, not elsewhere classified	Y	Y	Y	0 - 60 days
I8021 - Phlebitis and thrombophlebitis of iliac vein	Y	Y	Y	0 - 60 days
I8022 - Phlebitis and thrombophlebitis of popliteal vein	Y	Y	Y	0 - 60 days

Principal diagnosis (ICD10-AM 10 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
I8023 - Phlebitis and thrombophlebitis of tibial vein	Y	Y	Y	0 - 60 days
I803 - Phlebitis and thrombophlebitis of lower extremities, unspecified	Y	Y	Y	0 - 60 days
I808 - Phlebitis and thrombophlebitis of other sites	Y	Y	Y	0 - 60 days
I809 - Phlebitis and thrombophlebitis of unspecified site	Y	Y	Y	0 - 60 days
I81 - Portal vein thrombosis	Y	Y	Y	0 - 60 days
I822 - Embolism and thrombosis of vena cava	Y	Y		0 - 60 days
I828 - Embolism and thrombosis of other specified veins	Y	Y	Y	0 - 60 days
I950 - Idiopathic hypotension	Y	Y	Y	0 - 7 days
I9510 - Orthostatic hypotension, unspecified	Y	Y	Y	0 - 7 days
I9511 - Primary orthostatic hypotension	Y	Y	Y	0 - 7 days
I9512 - Neurogenic orthostatic hypotension	Y	Y	Y	0 - 7 days
I9519 - Other specified orthostatic hypotension	Y	Y	Y	0 - 7 days
I952 - Hypotension due to drugs	Y	Y	Y	0 - 7 days
I958 - Other hypotension	Y	Y	Y	0 - 7 days
I959 - Hypotension, unspecified	Y	Y	Y	0 - 7 days
I9781 - Postprocedural steal syndrome	Y	Y	Y	0 - 15 days
I9782 - Pacemaker syndrome	Y	Y	Y	0 - 15 days
I9783 - Postprocedural lymphocele, lymphoedema and chylothorax	Y	Y	Y	0 - 15 days
I9789 - Other intraoperative and postprocedural disorders of circulatory system, not elsewhere classified	Y	Y	Y	0 - 15 days
I979 - Intraoperative and postprocedural disorder of circulatory system, unspecified	Y	Y	Y	0 - 15 days
J020 - Streptococcal pharyngitis			Y	0 - 15 days
J028 - Acute pharyngitis due to other specified organisms			Y	0 - 15 days
J029 - Acute pharyngitis, unspecified			Y	0 - 15 days
J030 - Streptococcal tonsillitis			Y	0 - 15 days
J038 - Acute tonsillitis due to other specified organisms			Y	0 - 15 days
J039 - Acute tonsillitis, unspecified			Y	0 - 15 days
J060 - Acute laryngopharyngitis			Y	0 - 7 days
J068 - Other acute upper respiratory infections of multiple sites			Y	0 - 7 days
J069 - Acute upper respiratory infection, unspecified			Y	0 - 7 days
J120 - Adenoviral pneumonia	Y	Y	Y	0 - 7 days
J121 - Respiratory syncytial virus pneumonia	Y	Y	Y	0 - 7 days
J122 - Parainfluenza virus pneumonia	Y	Y	Y	0 - 7 days
J123 - Human metapneumovirus pneumonia	Y	Y	Y	0 - 7 days
J128 - Other viral pneumonia	Y	Y	Y	0 - 7 days
J129 - Viral pneumonia, unspecified	Y	Y	Y	0 - 7 days
J14 - Pneumonia due to Haemophilus influenzae	Y	Y	Y	0 - 7 days

Principal diagnosis (ICD10-AM 10 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
J150 - Pneumonia due to Klebsiella pneumoniae	Y	Y	Y	0 - 7 days
J151 - Pneumonia due to Pseudomonas	Y	Y	Y	0 - 7 days
J152 - Pneumonia due to staphylococcus	Y	Y	Y	0 - 7 days
J153 - Pneumonia due to streptococcus, group B	Y	Y	Y	0 - 7 days
J154 - Pneumonia due to other streptococci	Y	Y	Y	0 - 7 days
J155 - Pneumonia due to Escherichia coli	Y	Y	Y	0 - 7 days
J156 - Pneumonia due to other Gram-negative bacteria	Y	Y	Y	0 - 7 days
J157 - Pneumonia due to Mycoplasma pneumoniae	Y	Y	Y	0 - 7 days
J158 - Other bacterial pneumonia	Y	Y	Y	0 - 7 days
J159 - Bacterial pneumonia, unspecified	Y	Y	Y	0 - 7 days
J160 - Chlamydial pneumonia	Y	Y	Y	0 - 7 days
J168 - Pneumonia due to other specified infectious organisms	Y	Y	Y	0 - 7 days
J180 - Bronchopneumonia, unspecified	Y	Y	Y	0 - 7 days
J181 - Lobar pneumonia, unspecified	Y	Y	Y	0 - 7 days
J182 - Hypostatic pneumonia, unspecified	Y	Y	Y	0 - 7 days
J188 - Other pneumonia, organism unspecified	Y	Y	Y	0 - 7 days
J189 - Pneumonia, unspecified	Y	Y	Y	0 - 7 days
J200 - Acute bronchitis due to Mycoplasma pneumoniae	Y	Y	Y	0 - 7 days
J201 - Acute bronchitis due to Haemophilus influenzae	Y	Y	Y	0 - 7 days
J202 - Acute bronchitis due to streptococcus	Y	Y	Y	0 - 7 days
J203 - Acute bronchitis due to coxsackievirus	Y	Y	Y	0 - 7 days
J204 - Acute bronchitis due to parainfluenza virus	Y	Y	Y	0 - 7 days
J205 - Acute bronchitis due to respiratory syncytial virus	Y	Y	Y	0 - 7 days
J206 - Acute bronchitis due to rhinovirus	Y	Y	Y	0 - 7 days
J207 - Acute bronchitis due to echovirus	Y	Y	Y	0 - 7 days
J208 - Acute bronchitis due to other specified organisms	Y	Y	Y	0 - 7 days
J209 - Acute bronchitis, unspecified	Y	Y	Y	0 - 7 days
J22 - Unspecified acute lower respiratory infection	Y	Y	Y	0 - 7 days
J350 - Chronic tonsillitis			Y	0 - 15 days
J351 - Hypertrophy of tonsils			Y	0 - 15 days
J352 - Hypertrophy of adenoids			Y	0 - 15 days
J353 - Hypertrophy of tonsils with hypertrophy of adenoids			Y	0 - 15 days
J358 - Other chronic diseases of tonsils and adenoids			Y	0 - 15 days
J359 - Chronic disease of tonsils and adenoids, unspecified			Y	0 - 15 days
J36 - Peritonsillar abscess			Y	0 - 15 days
J390 - Retropharyngeal and parapharyngeal abscess			Y	0 - 7 days
J391 - Other abscess of pharynx			Y	0 - 7 days

Principal diagnosis (ICD10-AM 10 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
J392 - Other diseases of pharynx			Y	0 - 7 days
J393 - Upper respiratory tract hypersensitivity reaction, site unspecified			Y	0 - 7 days
J398 - Other specified diseases of upper respiratory tract			Y	0 - 7 days
J399 - Disease of upper respiratory tract, unspecified			Y	0 - 7 days
J40 - Bronchitis, not specified as acute or chronic	Y	Y	Y	0 - 7 days
J440 - Chronic obstructive pulmonary disease with acute lower respiratory infection	Y	Y		0 - 7 days
J441 - Chronic obstructive pulmonary disease with acute exacerbation, unspecified	Y	Y		0 - 7 days
J448 - Other specified chronic obstructive pulmonary disease	Y	Y		0 - 7 days
J449 - Chronic obstructive pulmonary disease, unspecified	Y	Y		0 - 7 days
J690 - Pneumonitis due to food and vomit	Y	Y	Y	0 - 7 days
J81 - Pulmonary oedema	Y	Y		0 - 7 days
J954 - Mendelson's syndrome	Y	Y	Y	0 - 7 days
J955 - Postprocedural subglottic stenosis	Y	Y	Y	0 - 7 days
J9581 - Postprocedural tracheal stenosis	Y	Y	Y	0 - 7 days
J9582 - Ventilation associated pneumonia	Y	Y	Y	0 - 7 days
J9583 - Transfusion related acute lung injury [TRALI]	Y	Y	Y	0 - 7 days
J9584 - Postprocedural pneumothorax	Y	Y	Y	0 - 7 days
J9585 - Postprocedural haemothorax	Y	Y	Y	0 - 7 days
J9589 - Other intraoperative and postprocedural disorders of respiratory system, not elsewhere classified	Y	Y	Y	0 - 7 days
J959 - Intraoperative and postprocedural disorders of respiratory system, unspecified	Y	Y	Y	0 - 7 days
J9600 - Acute respiratory failure, type I	Y	Y	Y	0 - 7 days
J9601 - Acute respiratory failure, type II	Y	Y	Y	0 - 7 days
J9609 - Acute respiratory failure, type unspecified	Y	Y	Y	0 - 7 days
J9690 - Respiratory failure unspecified, type I	Y	Y	Y	0 - 7 days
J9691 - Respiratory failure unspecified, type II	Y	Y	Y	0 - 7 days
J9699 - Respiratory failure unspecified, type unspecified	Y	Y	Y	0 - 7 days
J981 - Pulmonary collapse	Y	Y	Y	0 - 7 days
K122 - Cellulitis and abscess of mouth			Y	0 - 15 days
K566 - Other and unspecified intestinal obstruction	Y	Y		0 - 7 days
K590 - Constipation	Y	Y		0 - 7 days
K9181 - Haemorrhage from surgical anastomosis of digestive tract			Y	0 - 7 days
K9182 - Stenosis of surgical anastomosis of digestive tract			Y	0 - 7 days
K9183 - Leak from surgical anastomosis of digestive tract			Y	0 - 7 days
K9184 - Postprocedural bile leak, not elsewhere classified			Y	0 - 7 days
K9189 - Other intraoperative and postprocedural disorders of digestive system, not elsewhere classified	Y	Y	Y	0 - 7 days

Principal diagnosis (ICD10-AM 10 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
K919 - Intraoperative and postprocedural disorder of digestive system, unspecified			Y	0 - 7 days
K920 - Haematemesis			Y	0 - 15 days
K921 - Melaena			Y	0 - 7 days
L0312 - Cellulitis of upper limb	Y	Y	Y	0 - 7 days
L0313 - Cellulitis of lower limb	Y	Y		0 - 7 days
L032 - Cellulitis of face			Y	0 - 7 days
L231 - Allergic contact dermatitis due to adhesives	Y	Y	Y	0 - 7 days
L270 - Generalised skin eruption due to drugs and medicaments	Y	Y	Y	0 - 7 days
L271 - Localised skin eruption due to drugs and medicaments	Y	Y	Y	0 - 7 days
L8900 - Pressure injury, stage I, site not elsewhere classified	Y	Y		0 - 7 days
L8901 - Pressure injury, stage I, head	Y	Y		0 - 7 days
L8902 - Pressure injury, stage I, upper extremity	Y	Y		0 - 7 days
L8903 - Pressure injury, stage I, upper back	Y	Y		0 - 7 days
L8904 - Pressure injury, stage I, lower back	Y	Y		0 - 7 days
L8905 - Pressure injury, stage I, ischium	Y	Y		0 - 7 days
L8906 - Pressure injury, stage I, trochanter	Y	Y		0 - 7 days
L8907 - Pressure injury, stage I, heel	Y	Y		0 - 7 days
L8908 - Pressure injury, stage I, toe	Y	Y		0 - 7 days
L8909 - Pressure injury, stage I, other site of lower extremity (excluding heel and toe)	Y	Y		0 - 7 days
L8910 - Pressure injury, stage II, site not elsewhere classified	Y	Y		0 - 7 days
L8911 - Pressure injury, stage II, head	Y	Y		0 - 7 days
L8912 - Pressure injury, stage II, upper extremity	Y	Y		0 - 7 days
L8913 - Pressure injury, stage II, upper back	Y	Y		0 - 7 days
L8914 - Pressure injury, stage II, lower back	Y	Y		0 - 7 days
L8915 - Pressure injury, stage II, ischium	Y	Y		0 - 7 days
L8916 - Pressure injury, stage II, trochanter	Y	Y		0 - 7 days
L8917 - Pressure injury, stage II, heel	Y	Y		0 - 7 days
L8918 - Pressure injury, stage II, toe	Y	Y		0 - 7 days
L8919 - Pressure injury, stage II, other site of lower extremity (excluding heel and toe)	Y	Y		0 - 7 days
L8920 - Pressure injury, stage III, site not elsewhere classified	Y	Y		0 - 7 days
L8921 - Pressure injury, stage III, head	Y	Y		0 - 7 days
L8922 - Pressure injury, stage III, upper extremity	Y	Y		0 - 7 days
L8923 - Pressure injury, stage III, upper back	Y	Y		0 - 7 days
L8924 - Pressure injury, stage III, lower back	Y	Y		0 - 7 days
L8925 - Pressure injury, stage III, ischium	Y	Y		0 - 7 days
L8926 - Pressure injury, stage III, trochanter	Y	Y		0 - 7 days

Principal diagnosis (ICD10-AM 10 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
L8927 - Pressure injury, stage III, heel	Y	Y		0 - 7 days
L8928 - Pressure injury, stage III, toe	Y	Y		0 - 7 days
L8929 - Pressure injury, stage III, other site of lower extremity (excluding heel and toe)	Y	Y		0 - 7 days
L8930 - Pressure injury, stage IV, site not elsewhere classified	Y	Y		0 - 7 days
L8931 - Pressure injury, stage IV, head	Y	Y		0 - 7 days
L8932 - Pressure injury, stage IV, upper extremity	Y	Y		0 - 7 days
L8933 - Pressure injury, stage IV, upper back	Y	Y		0 - 7 days
L8934 - Pressure injury, stage IV, lower back	Y	Y		0 - 7 days
L8935 - Pressure injury, stage IV, ischium	Y	Y		0 - 7 days
L8936 - Pressure injury, stage IV, trochanter	Y	Y		0 - 7 days
L8937 - Pressure injury, stage IV, heel	Y	Y		0 - 7 days
L8938 - Pressure injury, stage IV, toe	Y	Y		0 - 7 days
L8939 - Pressure injury, stage IV, other site of lower extremity (excluding heel and toe)	Y	Y		0 - 7 days
L8940 - Pressure injury, unstageable, so stated, site not elsewhere classified	Y	Y		0 - 7 days
L8941 - Pressure injury, unstageable, so stated, head	Y	Y		0 - 7 days
L8942 - Pressure injury, unstageable, so stated, upper extremity	Y	Y		0 - 7 days
L8943 - Pressure injury, unstageable, so stated, upper back	Y	Y		0 - 7 days
L8944 - Pressure injury, unstageable, so stated, lower back	Y	Y		0 - 7 days
L8945 - Pressure injury, unstageable, so stated, ischium	Y	Y		0 - 7 days
L8946 - Pressure injury, unstageable, so stated, trochanter	Y	Y		0 - 7 days
L8947 - Pressure injury, unstageable, so stated, heel	Y	Y		0 - 7 days
L8948 - Pressure injury, unstageable, so stated, toe	Y	Y		0 - 7 days
L8949 - Pressure injury, unstageable, so stated, other site of lower extremity (excluding heel and toe)	Y	Y		0 - 7 days
L8950 - Suspected deep tissue injury, depth unknown, so stated, site not elsewhere classified	Y	Y		0 - 7 days
L8951 - Suspected deep tissue injury, depth unknown, so stated, head	Y	Y		0 - 7 days
L8952 - Suspected deep tissue injury, depth unknown, so stated, upper extremity	Y	Y		0 - 7 days
L8953 - Suspected deep tissue injury, depth unknown, so stated, upper back	Y	Y		0 - 7 days
L8954 - Suspected deep tissue injury, depth unknown, so stated, lower back	Y	Y		0 - 7 days
L8955 - Suspected deep tissue injury, depth unknown, so stated, ischium	Y	Y		0 - 7 days
L8956 - Suspected deep tissue injury, depth unknown, so stated, trochanter	Y	Y		0 - 7 days
L8957 - Suspected deep tissue injury, depth unknown, so stated, heel	Y	Y		0 - 7 days
L8958 - Suspected deep tissue injury, depth unknown, so stated, toe	Y	Y		0 - 7 days
L8959 - Suspected deep tissue injury, depth unknown, so stated, other site of lower extremity (excluding heel and toe)	Y	Y		0 - 7 days

Principal diagnosis (ICD10-AM 10 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
L8990 - Pressure injury, unspecified stage, site not elsewhere classified	Y	Y		0 - 7 days
L8991 - Pressure injury, unspecified stage, head	Y	Y		0 - 7 days
L8992 - Pressure injury, unspecified stage, upper extremity	Y	Y		0 - 7 days
L8993 - Pressure injury, unspecified stage, upper back	Y	Y		0 - 7 days
L8994 - Pressure injury, unspecified stage, lower back	Y	Y		0 - 7 days
L8995 - Pressure injury, unspecified stage, ischium	Y	Y		0 - 7 days
L8996 - Pressure injury, unspecified stage, trochanter	Y	Y		0 - 7 days
L8997 - Pressure injury, unspecified stage, heel	Y	Y		0 - 7 days
L8998 - Pressure injury, unspecified stage, toe	Y	Y		0 - 7 days
L8999 - Pressure injury, unspecified stage, other site of lower extremity (excluding heel and toe)	Y	Y		0 - 7 days
M0005 - Staphylococcal arthritis and polyarthritis, pelvic region and thigh	Y			0 - 60 days
M0006 - Staphylococcal arthritis and polyarthritis, lower leg		Y		0 - 60 days
M0025 - Other streptococcal arthritis and polyarthritis, pelvic region and thigh	Y			0 - 60 days
M0026 - Other streptococcal arthritis and polyarthritis, lower leg		Y		0 - 60 days
M0095 - Pyogenic arthritis, unspecified, pelvic region and thigh	Y			0 - 60 days
M0096 - Pyogenic arthritis, unspecified, lower leg		Y		0 - 60 days
M2125 - Flexion deformity, pelvic region and thigh	Y			0 - 60 days
M2126 - Flexion deformity, lower leg		Y		0 - 60 days
M2130 - Wrist or foot drop (acquired), multiple sites	Y	Y		0 - 60 days
M2137 - Wrist or foot drop (acquired), ankle and foot	Y	Y		0 - 60 days
M2175 - Unequal limb length (acquired), pelvic region and thigh	Y			0 - 60 days
M2176 - Unequal limb length (acquired), lower leg	Y	Y		0 - 60 days
M2445 - Recurrent dislocation and subluxation of joint, pelvic region and thigh	Y			0 - 60 days
M2446 - Recurrent dislocation and subluxation of joint, lower leg		Y		0 - 60 days
M2465 - Ankylosis of joint, pelvic region and thigh	Y			0 - 60 days
M2466 - Ankylosis of joint, lower leg		Y		0 - 60 days
M2505 - Haemarthrosis, pelvic region and thigh	Y			0 - 60 days
M2506 - Haemarthrosis, lower leg		Y		0 - 60 days
M2545 - Effusion of joint, pelvic region and thigh	Y			0 - 60 days
M2546 - Effusion of joint, lower leg		Y		0 - 60 days
M2555 - Pain in a joint, pelvic region and thigh	Y			0 - 60 days
M2556 - Pain in a joint, lower leg		Y		0 - 60 days
M2565 - Stiffness of joint, not elsewhere classified, pelvic region and thigh	Y			0 - 60 days
M2566 - Stiffness of joint, not elsewhere classified, lower leg		Y		0 - 60 days
M2585 - Other specified joint disorders, pelvic region and thigh	Y			0 - 60 days

Principal diagnosis (ICD10-AM 10 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
M2586 - Other specified joint disorders, lower leg		Y		0 - 60 days
M2595 - Unspecified joint disorder, pelvic region and thigh	Y			0 - 60 days
M2596 - Unspecified joint disorder, lower leg		Y		0 - 60 days
M7915 - Myalgia, pelvic region and thigh	Y	Y		0 - 60 days
M7916 - Myalgia, lower leg	Y	Y		0 - 60 days
M7925 - Neuralgia and neuritis, unspecified, pelvic region and thigh	Y	Y		0 - 60 days
M7926 - Neuralgia and neuritis, unspecified, lower leg	Y	Y		0 - 60 days
M7955 - Residual foreign body in soft tissue, pelvic region and thigh	Y	Y		0 - 60 days
M7956 - Residual foreign body in soft tissue, lower leg		Y		0 - 60 days
M7965 - Pain in limb, pelvic region and thigh	Y	Y		0 - 60 days
M7966 - Pain in limb, lower leg	Y	Y		0 - 60 days
M7967 - Pain in limb, ankle and foot	Y	Y		0 - 60 days
M7969 - Pain in limb, site unspecified	Y	Y		0 - 60 days
M8435 - Stress fracture, not elsewhere classified, pelvic region and thigh	Y			0 - 60 days
M8436 - Stress fracture, not elsewhere classified, lower leg		Y		0 - 60 days
M8705 - Idiopathic aseptic necrosis of bone, pelvic region and thigh	Y			0 - 60 days
M8706 - Idiopathic aseptic necrosis of bone, lower leg		Y		0 - 60 days
M8725 - Osteonecrosis due to previous trauma, pelvic region and thigh	Y			0 - 60 days
M8726 - Osteonecrosis due to previous trauma, lower leg		Y		0 - 60 days
M8785 - Other osteonecrosis, pelvic region and thigh	Y			0 - 60 days
M8786 - Other osteonecrosis, lower leg		Y		0 - 60 days
M8795 - Unspecified osteonecrosis, pelvic region and thigh	Y			0 - 60 days
M8796 - Unspecified osteonecrosis, lower leg		Y		0 - 60 days
M966 - Fracture of bone following insertion of orthopaedic implant, joint prosthesis, or bone plate	Y	Y		0 - 60 days
M968 - Other intraoperative and postprocedural disorders of musculoskeletal system	Y	Y		0 - 60 days
M969 - Intraoperative and postprocedural disorders of musculoskeletal system, unspecified	Y	Y		0 - 60 days
N170 - Acute kidney failure with tubular necrosis	Y	Y	Y	0 - 7 days
N171 - Acute kidney failure with acute cortical necrosis	Y	Y	Y	0 - 7 days
N172 - Acute kidney failure with medullary necrosis	Y	Y	Y	0 - 7 days
N178 - Other acute kidney failure	Y	Y	Y	0 - 7 days
N179 - Acute kidney failure, unspecified	Y	Y	Y	0 - 7 days
N19 - Unspecified kidney failure	Y	Y	Y	0 - 7 days
N300 - Acute cystitis	Y	Y		0 - 60 days
N303 - Trigonitis	Y	Y		0 - 60 days
N308 - Other cystitis	Y	Y		0 - 60 days

Principal diagnosis (ICD10-AM 10 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
N309 - Cystitis, unspecified	Y	Y		0 - 60 days
N312 - Flaccid neuropathic bladder, not elsewhere classified	Y	Y		0 - 60 days
N318 - Other neuromuscular dysfunction of bladder	Y	Y		0 - 60 days
N319 - Neuromuscular dysfunction of bladder, unspecified	Y	Y		0 - 60 days
N390 - Urinary tract infection, site not specified	Y	Y		0 - 60 days
N393 - Stress incontinence	Y	Y		0 - 60 days
N394 - Other specified urinary incontinence	Y	Y		0 - 60 days
N991 - Postprocedural urethral stricture	Y	Y		0 - 60 days
N9989 - Other intraoperative and postprocedural disorder of genitourinary system	Y	Y	Y	0 - 7 days
R000 - Tachycardia, unspecified	Y	Y		0 - 7 days
R001 - Bradycardia, unspecified	Y	Y		0 - 7 days
R002 - Palpitations	Y	Y		0 - 7 days
R008 - Other and unspecified abnormalities of heart beat	Y	Y		0 - 7 days
R041 - Haemorrhage from throat			Y	0 - 15 days
R042 - Haemoptysis			Y	0 - 15 days
R060 - Dyspnoea	Y	Y	Y	0 - 7 days
R061 - Stridor			Y	0 - 15 days
R070 - Pain in throat			Y	0 - 15 days
R11 - Nausea and vomiting	Y	Y	Y	0 - 7 days
R13 - Dysphagia			Y	0 - 15 days
R262 - Difficulty in walking, not elsewhere classified	Y	Y		0 - 60 days
R268 - Other and unspecified abnormalities of gait and mobility	Y	Y		0 - 60 days
R300 - Dysuria	Y	Y		0 - 7 days
R301 - Vesical tenesmus	Y	Y		0 - 7 days
R309 - Painful micturition, unspecified	Y	Y		0 - 7 days
R31 - Unspecified haematuria	Y	Y		0 - 7 days
R32 - Unspecified urinary incontinence	Y	Y		0 - 7 days
R33 - Retention of urine	Y	Y		0 - 7 days
R34 - Anuria and oliguria	Y	Y		0 - 7 days
R391 - Other difficulties with micturition	Y	Y		0 - 60 days
R398 - Other and unspecified symptoms and signs involving the urinary system	Y	Y		0 - 60 days
R410 - Disorientation, unspecified	Y	Y		0 - 7 days
R42 - Dizziness and giddiness	Y	Y		0 - 7 days
R490 - Dysphonia			Y	0 - 15 days
R502 - Drug-induced fever	Y	Y	Y	0 - 7 days
R508 - Other specified fever	Y	Y	Y	0 - 7 days

Principal diagnosis (ICD10-AM 10 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
R509 - Fever, unspecified	Y	Y	Y	0 - 7 days
R53 - Malaise and fatigue	Y	Y	Y	0 - 7 days
R55 - Syncope and collapse	Y	Y		0 - 7 days
R58 - Haemorrhage, not elsewhere classified	Y	Y	Y	0 - 60 days
R630 - Anorexia			Y	0 - 7 days
R633 - Feeding difficulties and mismanagement			Y	0 - 7 days
R638 - Other symptoms and signs concerning food and fluid intake			Y	0 - 7 days
R790 - Abnormal level of blood mineral	Y	Y	Y	0 - 7 days
R7981 - Abnormal blood gas level	Y	Y	Y	0 - 7 days
R7982 - Elevated prostate specific antigen	Y	Y	Y	0 - 7 days
R7983 - Abnormal coagulation profile	Y	Y	Y	0 - 7 days
R7989 - Other specified abnormal findings of blood chemistry	Y	Y	Y	0 - 7 days
R799 - Abnormal finding of blood chemistry, unspecified	Y	Y	Y	0 - 7 days
S061 - Traumatic cerebral oedema	Y	Y		0 - 7 days
S0630 - Focal cerebral and cerebellar injury, unspecified	Y	Y		0 - 7 days
S0631 - Focal cerebral contusion	Y	Y		0 - 7 days
S0632 - Focal cerebellar contusion	Y	Y		0 - 7 days
S0633 - Focal cerebral haematoma	Y	Y		0 - 7 days
S0634 - Focal cerebellar haematoma	Y	Y		0 - 7 days
S0638 - Other focal cerebral and cerebellar injury	Y	Y		0 - 7 days
S064 - Epidural haemorrhage	Y	Y		0 - 7 days
S065 - Traumatic subdural haemorrhage	Y	Y		0 - 7 days
S066 - Traumatic subarachnoid haemorrhage	Y	Y		0 - 7 days
S068 - Other intracranial injuries	Y	Y		0 - 7 days
S302 - Contusion of external genital organs	Y			0 - 7 days
S3730 - Injury of urethra, part unspecified	Y	Y		0 - 7 days
S3731 - Injury of membranous urethra	Y	Y		0 - 7 days
S3732 - Injury of penile urethra	Y	Y		0 - 7 days
S3733 - Injury of prostatic urethra	Y	Y		0 - 7 days
S3738 - Injury of other part of urethra	Y	Y		0 - 7 days
S7200 - Fracture of neck of femur, part unspecified	Y	Y		0 - 7 days
S7201 - Fracture of intracapsular section of femur	Y	Y		0 - 7 days
S7202 - Fracture of upper epiphysis (separation) of femur	Y	Y		0 - 7 days
S7203 - Fracture of subcapital section of femur	Y	Y		0 - 7 days
S7204 - Fracture of midcervical section of femur	Y	Y		0 - 7 days
S7205 - Fracture of base of neck of femur	Y	Y		0 - 7 days
S7208 - Fracture of other parts of neck of femur	Y	Y		0 - 7 days

Principal diagnosis (ICD10-AM 10 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
S7300 - Dislocation of hip, unspecified	Y			0 - 60 days
S7301 - Posterior dislocation of hip	Y			0 - 60 days
S7302 - Anterior dislocation of hip	Y			0 - 60 days
S7308 - Other dislocation of hip	Y			0 - 60 days
S7310 - Sprain and strain of hip, part unspecified	Y			0 - 60 days
S7311 - Sprain and strain of iliofemoral (ligament)	Y			0 - 60 days
S7312 - Sprain and strain of ischiocapsular (ligament)	Y			0 - 60 days
S7318 - Sprain and strain of other specified sites of hip	Y			0 - 60 days
S740 - Injury of sciatic nerve at hip and thigh level	Y	Y		0 - 7 days
S741 - Injury of femoral nerve at hip and thigh level	Y	Y		0 - 7 days
S742 - Injury of cutaneous sensory nerve at hip and thigh level	Y	Y		0 - 7 days
S747 - Injury of multiple nerves at hip and thigh level	Y	Y		0 - 7 days
S748 - Injury of other nerves at hip and thigh level	Y	Y		0 - 7 days
S749 - Injury of unspecified nerve at hip and thigh level	Y	Y		0 - 7 days
S750 - Injury of femoral artery	Y	Y		0 - 15 days
S751 - Injury of femoral vein at hip and thigh level	Y	Y		0 - 15 days
S752 - Injury of greater saphenous vein at hip and thigh level	Y	Y		0 - 15 days
S757 - Injury of multiple blood vessels at hip and thigh level	Y	Y		0 - 15 days
S758 - Injury of other blood vessels at hip and thigh level	Y	Y		0 - 15 days
S759 - Injury of unspecified blood vessel at hip and thigh level	Y	Y		0 - 15 days
T402 - Other opioids	Y	Y	Y	0 - 7 days
T404 - Other synthetic narcotics	Y	Y	Y	0 - 7 days
T406 - Other and unspecified narcotics	Y	Y	Y	0 - 7 days
T455 - Anticoagulants	Y	Y		0 - 7 days
T801 - Vascular complications following infusion, transfusion and therapeutic injection	Y	Y	Y	0 - 7 days
T802 - Infections following infusion, transfusion and therapeutic injection	Y	Y	Y	0 - 7 days
T810 - Haemorrhage and haematoma complicating a procedure, not elsewhere classified	Y	Y	Y	0 - 60 days
T812 - Accidental puncture and laceration during a procedure, not elsewhere classified	Y	Y	Y	0 - 60 days
T813 - Disruption of operation wound, not elsewhere classified	Y	Y	Y	0 - 60 days
T830 - Mechanical complication of urinary (indwelling) catheter	Y	Y		0 - 7 days
T840 - Mechanical complication of internal joint prosthesis	Y	Y		0 - 60 days
T841 - Mechanical complication of internal fixation device of bones of limb	Y	Y		0 - 60 days
T842 - Mechanical complication of internal fixation device of other bones	Y	Y		0 - 60 days
T843 - Mechanical complication of other bone devices, implants and grafts	Y	Y		0 - 60 days

Principal diagnosis (ICD10-AM 10 th Ed)	Indicator that the principal diagnosis applies to			Readmission interval
	CHBOI 4b (Knee)	CHBOI 4c (Hip)	CHBOI 4d (T&A)	
T844 - Mechanical complication of other internal orthopaedic devices, implants and grafts	Y	Y		0 - 60 days
T845 - Infection and inflammatory reaction due to internal joint prosthesis	Y	Y		0 - 60 days
T846 - Infection and inflammatory reaction due to internal fixation device [any site]	Y	Y		0 - 60 days
T847 - Infection and inflammatory reaction due to other internal orthopaedic prosthetic devices, implants and grafts	Y	Y		0 - 60 days
T8481 - Haemorrhage and haematoma following insertion of internal orthopaedic prosthetic devices, implants and grafts	Y	Y		0 - 60 days
T8482 - Embolism and thrombosis following insertion of internal orthopaedic prosthetic devices, implants and grafts	Y	Y		0 - 60 days
T8483 - Pain following insertion of internal orthopaedic prosthetic devices, implants and grafts	Y	Y		0 - 60 days
T8484 - Stenosis following insertion of internal orthopaedic prosthetic devices, implants and grafts	Y	Y		0 - 60 days
T8485 - Metallosis following insertion of internal orthopaedic prosthetic devices, implants and grafts	Y	Y		0 - 60 days
T8489 - Other specified complications following insertion of internal orthopaedic prosthetic devices, implants and grafts	Y	Y		0 - 60 days
T849 - Unspecified complication of internal orthopaedic prosthetic device, implant and graft	Y	Y		0 - 60 days
T859 - Unspecified complication of internal prosthetic device, implant and graft	Y	Y		0 - 60 days
T8851 - Hypothermia following anaesthesia	Y	Y	Y	0 - 7 days
T8852 - Headache due to anaesthesia	Y	Y	Y	0 - 7 days
T8853 - Failed anaesthesia	Y	Y	Y	0 - 7 days
T8859 - Complications of anaesthesia, not elsewhere classified	Y	Y	Y	0 - 7 days
T887 - Unspecified adverse effect of drug or medicament	Y	Y	Y	0 - 7 days
T888 - Other specified complications of surgical and medical care, not elsewhere classified	Y	Y	Y	0 - 60 days
T889 - Complication of surgical and medical care, unspecified	Y	Y	Y	0 - 60 days
Z466 - Fitting and adjustment of urinary device	Y	Y		0 - 60 days
Z740 - Need for assistance due to reduced mobility	Y	Y		0 - 7 days

Appendix 6: Methodology for generating national coefficients and reference sets

Indicator	Component	Methodology
CHBOI 1 HSMR	Coefficients	Elaborated risk-adjusted model (Ben-Tovim 2009)/ Current Australian model. Calculated based on 2016-17 national data. ICD-10 AM 9 th & 10 th editions
	Reference sets – list of high mortality principal diagnoses, risk deciles, and age variables	ICD-10 AM 9 th and 10 th editions calculated over a 3-year period (2014-15, 2015-16 and 2016-17)
	National rate	(Observed deaths over 1 year/ expected deaths over 1 year) X 100 Calculated based on 2016-17 national data
CHBOI 2 – Death in low mortality DRGs	Reference sets: <ul style="list-style-type: none"> List of low mortality DRGs List of excluded diagnoses codes List of excluded procedure codes 	<p><i>List of low mortality DRG codes:</i> AR-DRG Version 8.0, calculated over a 3-year period (2014-15, 2015-16 and 2016-17)</p> <p><i>List of excluded diagnoses and procedure codes:</i> ICD-10-AM 9th and 10th editions – See Appendix 3</p>
	National rate	(Observed deaths over 3 years/ denominator separations over 3 years) X 100 Calculated based on data from 2014-15, 2015-16 and 2016-17
CHBOI 3 – Condition specific mortality	Set of coefficients for CHBOI 3a to 3d	Methodology as per specification, calculated from 2016-17 national data Calculated based on data from 2014-15, 2015-16 and 2016-17 separately
	National rates	(Observed deaths over 1 year/ expected deaths over 1 year) X 100, calculated from 2016-17 national data Calculated based on data from 2014-15, 2015-16 and 2016-17 separately Expected deaths in a year are based on coefficients of that year

Indicator	Component	Methodology
CHBOI 4 – Condition specific readmission	National rates	(Observed readmissions over 1 year/ denominator separations over 1 year) X 100, calculated from 2016-17 national data *

** National readmission rates exclude data from Western Australian hospitals due to the fact that patient identifiers are not available for patient linkage, even for same hospital readmissions.*

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