

CLASSIFICATION OF HOSPITAL ACQUIRED DIAGNOSES (CHADx)

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Professor Chris Baggoley

Chief Executive

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INTRODUCTION

Data on patient safety performance is an important tool for use by hospitals and others in reducing the rate of hospital-acquired illness and injury. The costs of hospital acquired illness and injury are substantial as they add between 15 and 20 per cent to the costs of hospital care.

The Classification of Hospital Acquired Diagnoses (CHADx) (pronounced 'Chaddix') allows hospitals to track the entire spectrum of unintentional patient harms, both conventional markers of patient safety, along with more 'mundane' hospital acquired conditions that have received less attention.

In 2007, all Australian states and territories agreed to the adoption of a national condition onset flag for diagnoses on inpatient episodes of care, commencing collection in July 2008. Guidance on national condition onset flag assignment has been published in the Australian Coding Standards (ACS) for ICD-10-AM, Sixth Edition.

For application of a condition onset flag of '1', the coder must ascertain that there was no evidence of the condition existing prior to admission, that is, a flag of '1' is used only for a condition arising after admission. This distinguishes incident diagnoses (arising during the current episode of inpatient care) from those treated in a previous episode, or arising in the community prior to admission (a flag of '2').

The Australian Classification of Hospital Acquired Diagnoses (CHADx) uses routinely abstracted hospital data on diagnoses coded in ICD-10-AM, combined with a condition-onset flag of '1', to identify complications across the entire spectrum of illness and injury. The CHADx was designed to provide a basis for the estimation of relative per-case and total expenditure attributable to hospital-acquired complications.

It provides hospitals with a tool to group over 4000 valid diagnosis codes typically used with an inpatient condition-onset flag into a smaller set (n=144) of clinically-meaningful classes for routine monitoring of complication rates.

The CHADx overcomes many of the shortcomings of existing classifications of patient safety events because it covers a broader range of hospital-acquired conditions than other monitoring systems (for instance, variable life adjusted display (VLAD), sentinel events, patient safety indicators (PSIs)). It uses ICD-10-AM, whereas most others have been developed using ICD-9-CM, and it makes use of 'condition onset' information (present on admission versus arising after admission) not available in other routine hospital data sets.

The CHADx is primarily intended for within-hospital use rather than for public reporting, and it does not currently incorporate risk (or casemix) adjustment to allow facility-level comparisons of rates of these adverse patient outcomes. It allows hospitals to track rates of CHADx over time, with timeliness limited only by the turn-around time of patient record abstraction. It gives jurisdictions the ability to monitor CHADx trends at a systems level where patient risk factors can be assumed to be stable.

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Development of the CHADx by researchers at the Australian Centre for Economic Research on Health at the University of Queensland was funded by a once-off grant from the Australian Commission on Safety and Quality in Health Care (ACSQHC).

The National Centre for Classification in Health (NCCH) in conjunction with the ACSQHC has now aligned the CHADx to ICD-10-AM Seventh Edition and has incorporated this vital information into the electronic version of the classification. This will enable users of the classification to identify the relevant CHADx code(s), or combination of CHADx codes, when associated with a condition onset flag of '1'.

Below is a listing of the 17 major CHADx (M CHADx) categories which include 144 CHADx classes based on ICD-10-AM Seventh Edition, with a condition onset flag of '1'. An expanded list of the CHADx can be found at the Commission's website at http://www.safetyandquality.gov.au/internet/safety/publishing.nsf/Content/PriorityProgram-08_CostHAD

| | |
|-------------------|--|
| M CHADx 1 | Post-procedural complications |
| M CHADx 2 | Adverse drug events |
| M CHADx 3 | Accidental injuries |
| M CHADx 4 | Specific infections |
| M CHADx 5 | Cardiovascular complications |
| M CHADx 6 | Respiratory complications |
| M CHADx 7 | Gastrointestinal complications |
| M CHADx 8 | Skin conditions |
| M CHADx 9 | Genitourinary complications |
| M CHADx 10 | Hospital-acquired psychiatric states |
| M CHADx 11 | Early pregnancy complications |
| M CHADx 12 | Labour, delivery & postpartum complications |
| M CHADx 13 | Perinatal complications |
| M CHADx 14 | Haematological complications |
| M CHADx 15 | Metabolic complications |
| M CHADx 16 | Nervous system complications |
| M CHADx 17 | Other complications |

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Table 1 - Summary of CHADx codes ICD-10-AM Seventh Edition

| CHADx ASSIGNMENT | <i>Included codes and code combinations</i> |
|-------------------------|---|
| M CHADx 1 | POST-PROCEDURAL COMPLICATIONS |
| 1.1 | Complications of infusion /transfusion T80.1–T80.9 |
| 1.2 | Gas embolism T80.0, T70.3, O88.0 |
| 1.3 | Failed or difficult intubation T88.4 |
| 1.4 | Other haemorrhage and haematoma complicating a procedure T81.0 |
| 1.5 | Accidental puncture/laceration during procedure T81.2 |
| 1.6 | Foreign body or substance left following procedure T81.5– T81.6 |
| 1.7 | Other complications of surgical and medical care NEC (including shock) T81.1, T81.7–T81.9, T88.0–T88.1, T88.8–T88.9 |
| 1.8 | Disruption of wound T81.3, O90.0–O90.1 |
| 1.9 | Wound infection (excluding septicaemia) T81.41, O86.0 |
| 1.10 | Complications of cardiac and vascular implants (excluding septicaemia) T82 |
| 1.11 | Complications of genitourinary implants (excluding septicaemia) T83 |
| 1.12 | Complications of orthopaedic implants (excluding septicaemia) T84 |
| 1.13 | Complications of other implants (excluding septicaemia) T85 |
| 1.14 | Complications of transplants T86 |
| 1.15 | Complications of reattachment and amputations T87 |
| 1.16 | Post-procedural disorders: endocrine and metabolic E89 |
| 1.17 | Post-procedural disorders: nervous system G97 |
| 1.18 | Post-procedural disorders: eye and ear H59, H95 |
| 1.19 | Post-procedural disorders: circulatory system I97 |
| 1.20 | Post-procedural disorders: respiratory system J95 |
| 1.21 | Post-procedural disorders: digestive system K91 |
| 1.22 | Post-procedural disorders: musculoskeletal system M96 |
| 1.23 | Post-procedural disorders: genitourinary system N99 |
| M CHADx 2 | ADVERSE DRUG EVENTS |
| 2.1 | Skin Adverse effects due to systemic antibiotics Y40, Y41 + L20–L30 (exc L22.0–L23.2, L23.4–L24.3, L24.5–L25.0, L25.2–25.9) & R20–23 (exc R22.0–R22.9) |
| 2.2 | Other adverse effects due to systemic antibiotics Y40, Y41 |
| 2.3 | Nausea & vomiting due to anti neoplastic drugs Y43.1–Y43.3 + R11 |
| 2.4 | Other adverse effects due to anti neoplastic drugs Y43.1–Y43.3 |
| 2.5 | Coagulation defect due to drugs affecting blood constituents Y44 + D68 |
| 2.6 | Other adverse effects due to drugs affecting blood constituents Y44 |

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|--------------------------------------|--|--|
| 2.7 | Nausea and vomiting due to opioids and related analgesics | Y45.0 + R11 |
| 2.8 | Alterations to mental state due to opioids and related analgesics | Y45.0 + F05.8, F05.9, R40.0–R40.2, R41.0–R41.8, or R44.0–R44.8 |
| 2.9 | Other adverse effects due to opioids and related analgesics | Y45.0 |
| 2.10 | Adverse effects due to anaesthesia (including misadventure) | Y48; Y60–84 + T88.2, T88.3 or T88.5 |
| 2.11 | Hypotension due to anaesthesia | Y48 + I95 |
| 2.12 | Alterations to mental state due to anaesthesia | Y48 + F05.8, F05.9, R40.0–R40.2, R41.0–R41.8 or R44.0–R44.8 |
| 2.13 | Other adverse effects due to drugs affecting cardiovascular system | Y52 |
| 2.14 | Hypotension dt drugs affecting cardiovascular system | Y52 + I95.2 |
| 2.15 | Adverse effects due to insulin & oral hypoglycaemics | Y42.3 |
| 2.16 | Adverse effects due to other drugs | Y42 (exc Y42.3), Y43.0, Y43.4–Y43.9, Y45 (exc Y45.0), Y46–Y47, Y49–Y51, Y53–Y59 , D52.1, D59.2, D61.1, E06.4, E16.0, E23.1, E24.2, E27.3, G21.1, G24.0, G25.1, G25.4, G44.4, G62.0, G72.0, I95.2, J70.4, L23.3, L24.4, L25.1, L27.0, L27.1 , L43.2, L56.0, L56.1, M10.27, N14.0–N14.2 |
| 2.17 | Anaphylactic shock due to correct drug properly administered | T88.6; T78.2 followed by Y40–Y59 |
| 2.18 | Accidental overdose of drug or wrong drug given or taken in error | X40–X44 |
| M CHADx 3 ACCIDENTAL INJURIES | | |
| 3.1 | Falls with fractured femur | W01–W19 (exc W02.0–W02.5, W09.0–W09.9, W11–W12, W14–W16)+ S72 |
| 3.2 | Falls with intracranial injury | W01–W19 (exc W02.0–W02.5, W09.0–W09.9, W11–W12, W14–W16) + S06.1–S06.9 |
| 3.3 | All other falls | W01.0, W01.1, W01.2, W03, W04, W05, W06, W07, W08, W10, W13, W17, W18, W19 (exc W02.0–W02.5, W09.0–W09.9, W11–W12, W14–W16) |
| 3.4 | Injury due to assault | X85–Y09 (exc X92.1–2, Y03); Y35 |
| 3.5 | Other patient accidents (exc poisoning) | W20–X59 (exc W32–W34, W39, W59, X13.0, X20.0–X20.1, most W84) & Z03.6 (w/o external cause) |

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| M CHADx 4 | | SPECIFIC INFECTIONS |
| 4.1 | Sepsis | A02.1, A32.7, A40, A41, A42.7, B37.7 + T81.42, O75.3, O85, O88.3, P36, R65.0, R65.1, R57.2 |
| 4.2 | Mycoses | A31.8, A31.9, B35–B49 (exc B37.7) |
| 4.3 | MRSA | Z06.32 |
| 4.4 | Other drug resistant infections | Z06 (ex Z06.32) |
| 4.5 | Other infectious agents | A06.7, A28.0, A36.3, A36.8, A42.8, A42.9, A46, A48.0, A48.3, A49.0–A49.9, A86, A87.2, A87.9, B00.0–B00.9 (exc B00.3, B00.4), B01.2, B01.9 (exc B01.0, B01.1, B01.8), (exc B02–B07), B08.4, B09, B15.9, B16.9, B17.1, B19.9, B25.0, B25.8, B25.9, B30.3, B30.9, B33.8, B34.8, B34.9, B60.8, B80, B83.9, B85.0, B85.2, B85.3, B85.4, B99 (exc, A32.7, A42.7, A31.8–A31.9, B37.7) |
| M CHADx 5 | | CARDIOVASCULAR COMPLICATIONS |
| 5.1 | AMI | I21–I22.9 |
| 5.2 | Pulmonary embolism (PE) | I26 |
| 5.3 | Cardiac arrhythmias, conduction disturbances & abnormal heart beat | I44–I45, I47–I48, I49.1–I49.9, R00 (exc w Y40–Y59) |
| 5.4 | Ventricular fibrillation/ cardiac arrest | I46, I49.0 |
| 5.5 | Heart failure | I50 |
| 5.6 | Hypotension (not drug induced) | I95 (exc w Y40–59) |
| 5.7 | Cerebro-vascular disease & TIA | I60–I67 (exc I60.4, I60.6, I60.7, I65.2–I65.9, I66.0, I66.1, I66.3, I66.8, I66.9, I67.1–I67.5, I67.7–I67.9), G45, O87.3 |
| 5.8 | Venous thrombosis/embolism (not progressing to PE) | I80–I82, O22.3, O87.0–O87.1, O88.2 |
| 5.9 | Unstable and other angina | I20 |
| 5.10 | Cardiogenic and other shock | R57.0–R57.9 |
| 5.11 | Other circulatory system complications | I15.9, I23.0, I23.2, I23.3, I23.8, I24.0–I24.9, I27.2, I27.9, I28.8, I30.1–I30.9, I31.2, I31.3, I31.9, I33.0, I33.9, I34.8, I35.8, I36.1, I36.9, I37.1, I38, I40.8, I51.3, I51.4, I51.6, I51.8, I71.00, I71.01, I71.1, I72.0, I72.1, I72.2, I72.4, I72.8, I72.9, I74.0–I74.9, |

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**I77.0, I77.1, I77.2, I77.6,
 I77.8, I77.9, I78.8, I87.1,
 I87.8, I87.9, I88.0, I88.9,
 I89.0, I89.1, I89.8, I89.9,
 I99, R09.88**

M CHADx 6 RESPIRATORY COMPLICATIONS

| | | |
|-----|---|--|
| 6.1 | ARDS, respiratory failure & pulmonary collapse (incl atelectasis) | J80, J96.0, J96.9, J98.1 |
| 6.2 | Aspiration pneumonia | J69 |
| 6.3 | Acute lower respiratory infections (incl influenza & pneumonia) | J10–J18, J20–22 |
| 6.4 | Pulmonary oedema, pneumothorax & pleural effusion | J90, J93, J94.0, J94.2 |
| 6.5 | Haemorrhage from respiratory passages | R04 |
| 6.6 | Asphyxia & respiratory arrest | R09.0, R09.2 |
| 6.7 | Breathing difficulties | R06.0–R06.5, R06.8, R09.1 |
| 6.8 | Other hospital-acquired respiratory disorders | J00, J01.0, J01.4, J01.9, J02.8, J02.9, J03.9, J04.0, J04.1, J05.0, J05.1, J06.9, J30.1, J30.3, J30.4, J34.0, J34.8, J38.00–J38.04, J38.3–J38.7, J39.0, J39.2, J39.3, J39.8, J40, J82, J84.9, J85.0–J85.3, J86.0, J86.9, J94.8, J98.0, J98.4–J98.9, R09.89 |

M CHADx 7 GASTROINTESTINAL COMPLICATIONS

| | | |
|-----|--|--|
| 7.1 | Gastro enteritis | A02–A09 (ex A021, A04.7, A061–A06.6), K52 |
| 7.2 | Paralytic ileus & intestinal obstruction (w/o hernia)* | K56 |
| 7.3 | Enterocolitis dt Clostridium difficile | A04.7 |
| 7.4 | Constipation | K59.0 (exc w drug effects Y40–59) |
| 7.5 | Nausea and vomiting | R11 |
| 7.6 | GI bleeding not classified to a disease | K92.0–K92.2 |
| 7.7 | Other digestive system disorders | K05.0, K05.2, K05.5, K05.6, K06.2, K06.8, K06.9, K08.1, K08.81, K08.9, K10.2, K10.3, K10.8, K11.2, K11.3, K11.4, K11.7, K11.8, K12.0–K12.2, K13.0, K13.1, K13.7, K14.0, K14.6, K14.8, K20, K22.1, K22.2, K22.3, K22.6, K22.8, K22.9, K30, K31.0, K31.5, K31.6, K31.88, K31.9, K35.2–K35.8, K36, K37, K38.8, K55.0, K55.8, |

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K55.9, K59.1, K59.4,
 K59.8, K59.9, K60.0,
 K60.2–K60.4, K61.0–
 K61.3, K62.4–K62.9,
 K63.0–K63.9, K65.0,
 K65.8, K65.9, K66.1,
 K66.8, K72.0, K72.9,
 K75.0, K75.8, K75.9,
 K76.3, K76.6– K76.9,
 K81.0, K81.8, K81.9,
 K82.2, K82.8, K82.9,
 K83.0–K83.4, K83.8,
 K83.9, K85.0–K85.9,
 K86.2–K86.9, K87.1,
 K90.3, K90.4, K90.9,
 K92.8, K92.9, R19.4,
 R19.5, R19.8

M CHADx 8

SKIN CONDITIONS

| | | |
|-----|---------------------------------------|---|
| 8.1 | Pressure ulcers | L89 |
| 8.2 | Cellulitis* | L03 |
| 8.3 | Dermatitis, rash & other skin effects | L20–L30 & R20–R23 (exc w Y40–Y59 or dt drugs) |
| 8.4 | Other skin disorders | L01.0, L01.1, L02.0– L02.9, L04.0–L04.3, L05.0, L05.9, L08.0, L08.8, L08.9, L10.9, L11.1, L13.8, L42, L43.9, L50.0, L50.8, L50.9, L51.1, L51.8, L51.9, L52, L53.0, L53.8, L53.9, L58.0, L58.9, L59.0, L59.8, L59.9, L60.0, L60.1, L60.3, L60.8, L60.9, L65.9, L70.0, L70.8, L70.9, L71.0, L71.9, L72.0, L72.1, L72.8, L72.9, L73.8, L73.9, L74.0, L74.1, L74.3, L88, L92.8, L92.9, L97, L98.0–L98.2, L98.5, L98.8, L98.9 |

*Excludes after T code

M CHADx 9

GENITOURINARY COMPLICATIONS

| | | |
|-----|---|---|
| 9.1 | Acute & unspecified renal failure (exc post procedural) | N17, N19 |
| 9.2 | UTIs | N10, N30.0, N39.0 |
| 9.3 | Urinary retention | R33 |
| 9.4 | Other complications & symptoms of the urinary system | N00–N39 (exc N02–N03, N10, N17–N19, N20.0– N21.0, N30–N30.2), R30–R39 (exc R33) |
| 9.5 | Other complications of male & female genitals | N41.0, N41.9, N42.8, N45.0, N45.9, N48.1– N48.3, N48.5, N48.8, N48.9, N49.2, N49.9, N50.1, N50.8, N50.9, |

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N51.1, N51.2, N51.8,
 N61, N64.1, N64.3–
 N64.8, N71.0, N71.9,
 N73.2, N73.5, N73.9,
 N76.0, N76.2, N76.4–
 N76.8, N82.0, N82.1,
 N82.3, N83.6–N83.9,
 N85.9, N88.8, N89.8,
 N89.9, N90.8, N90.9,
 N93.8, N93.9, N94.0,
 N94.4, N94.6, N98.1

M CHADx 10 HOSPITAL-ACQUIRED PSYCHIATRIC STATES

| | | |
|------|---|--|
| 10.1 | Depressive episode & symptoms involving emotional state | F32, R45 (exc R45.6) |
| 10.2 | Panic and other anxiety disorders | F41 |
| 10.3 | Adjustment & other psych disorders | F06.1, F06.33, F06.7– F06.9, F07.2, F07.8, F09, F23.30, F23.31, F23.90, F23.91, F29, F30.0, F30.2, F30.9, F38.8, F39, F40.8, F40.9, F43.0– F43.9, F44.5, F44.88, F44.9, F45.0, F45.31, F45.32, F45.34, F45.8, F45.9, F48.9, F51.0, F51.4, F51.5, F99, R45.6 |
| 10.4 | Alterations to mental state | F05.0–F05.9, R40.0– 40.2, R41.0–41.8, R44.0– 44.8, R45.6 |
| 10.5 | Mental & behavioural disorders due to psychoactive substance use | F10.3, F10.4, F11.3, F11.4, F12.3, F12.4 F13.30, F13.31, F13.39, F13.40, F13.41, F13.49, F14.3, F14.4, F15.30, F15.31, F15.32, F15.39, F15.40, F15.41, F15.42, F15.49, F16.30, F16.31, F16.39, F16.40, F16.41, F16.49, F17.3, F17.4, F18.3, F18.4, F19.3, F19.4 |
| 10.6 | Patient self-harm (Incl intentional and undetermined intent overdose) | X60–X84 (exc X72– X75), Y10–Y34 (exc Y22–Y25) |

M CHADx 11 EARLY PREGNANCY COMPLICATIONS

| | | |
|------|--|-------------------------------|
| 11.1 | Complications of abortion, ectopic and molar pregnancies | O03–O08 (exc O05.0– O05.8) |
|------|--|-------------------------------|

M CHADx 12 LABOUR, DELIVERY & POSTPARTUM COMPLICATIONS

| | | |
|------|--|-----------------------------|
| 12.1 | Foetal heart rate anomalies | O68.0, O68.2 |
| 12.2 | Foetal meconium and other distress | O68.1, O68.3–O68.9 |
| 12.3 | Complications of umbilical cord | O69 |
| 12.4 | Unsuccessful interventions during labour | O61, O66.5, O75.5– O75.6 |

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|---|---|--|
| 12.5 | Complications of maternal anaesthesia during pregnancy and puerperium | O29, O74, O89 |
| 12.6 | First degree and unspecified perineal laceration | O70.0, O70.9 |
| 12.7 | Second degree perineal laceration | O70.1 |
| 12.8 | Third degree and fourth degree perineal laceration | O70.2–O70.3 |
| 12.9 | Maternal haemorrhage | O44.1, O46, O67, O72 |
| 12.10 | Other obstetric injury | O71, O90.2 |
| 12.11 | Other complications intrapartum & postpartum | O75.0–O75.2, O75.4, O75.8–O75.9, O87.2, O87.8, O87.9, O90.3–O90.9, F53 |
| 12.12 | Retained placenta | O73 |
| 12.13 | Maternal infection (exc wound infection & septicaemia) | O86.1–O86.8, O41.1 |
| 12.14 | Breast disorders associated with childbirth | O91–O92 |
| 12.15 | Other disorders predominantly related to pregnancy | O20.0, O20.8, O20.9, O21.0–O21.9, O22.2, O22.5, O22.8, O22.9, O23.0–O23.9, O25, O26.4, O26.5, O26.7, O26.81–O26.88, O26.9, O31.8, O41.8, O41.9, O42.0, O42.11, O42.12, O42.2, O42.9, O45.0, O45.8, O45.9, O47.1, O47.9, O88.1 |
| M CHADx 13 PERINATAL COMPLICATIONS | | |
| 13.1 | Prenatal injuries | P03.2–P03.4, P96.50–P96.59 |
| 13.2 | Intracranial haemorrhage, hypoxia and other brain injuries | P10.0–P11.2, P20–P21, P52, P90–P91.9 |
| 13.3 | Other birth trauma | P11.3–P11.5 |
| 13.4 | Respiratory distress of newborn | P22 |
| 13.5 | Aspiration & other respiratory disorders of newborn* | P24–P26, P28 (exc P28.81, P28.83) |
| 13.6 | Circulatory disorders of newborn | P29.0–P29.2, P29.4–P29.9, P29.3 (exc P29.82) |
| 13.7 | Perinatal infections (exc septicaemia) | P37.5, P38, P39 |
| 13.8 | Haemorrhage and blood disorders of newborn | P50–P51 & P53–P54 |
| 13.9 | Jaundice | P58–P59 |
| 13.10 | GI and feeding disorders of newborn | P75–P78, P92, & R63.4* |
| 13.11 | Other neonatal complications | P60, P61.0–P61.9, P70.3–P70.9, P71.0–P71.9, P72.0–P72.9, P74.0, P74.1, P74.20–P74.29, P74.30–P74.39, P74.4–P74.9, P28.81, P28.83, P80.0, P80.8, P80.9, P81.0, P81.8, P81.9, P83.0–P83.9, P96.1, P96.2, P96.81, P96.89, P96.3 |

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* Not including Snuffles and Grunting

M CHADx 14 HAEMATOLOGICAL COMPLICATIONS

| | | |
|------|---|---|
| 14.1 | Post haemorrhagic anaemia (not post-procedural) | D62 |
| 14.2 | Other hospital-acquired anaemia | D55.2, D59.3, D59.4, D59.6–D59.9, D61.9, D63, D64.1, D64.3, D64.8, D64.9 |
| 14.3 | Coagulation defects | D65, D68.3–D68.9 (exc w Y40–Y59) |
| 14.4 | Agranulocytosis, thrombocytopenia & other blood disorders | D69.0–D69.9, D70, D72.1–D72.9, D73.0, D73.1, D73.3, D73.5–D73.9, D75.1–D75.9, D80.1, D80.3, D84.8, D84.9, D89.0–D89.2, D89.8 |

M CHADx 15 METABOLIC COMPLICATIONS

| | | |
|------|---|--|
| 15.1 | Dehydration / volume depletion | E86 (exc w Y40–Y59) |
| 15.2 | Electrolyte disorders w/o dehydration | E87 (exc w Y40–Y59 or w E86) |
| 15.3 | Hospital acquired nutrition deficiencies (incl nutritional anaemia) | E40–E63 & D50–D53 |
| 15.4 | Hypoglycaemia & hyperglycaemia | E16.1–E16.2, R73 |
| 15.5 | Disorders of mineral metabolism | E83 (exc w Y40–Y59) |
| 15.6 | SIADH, hyperthyroidism & other metabolic disorders | E03.2, E05.4–E05.9, E06.0, E06.1, E06.9, E07.8, E07.9, E16.4, E20.9, E21.1–E21.4, E22.1, E22.2, E22.9, E23.3, E23.6, E26.9, E27.4, E27.8, E27.9, E29.1, E34.8, E34.9, E72.1, E73.8, E79.0, E80.1, E80.7 |

M CHADx 16 NERVOUS SYSTEM COMPLICATIONS

| | | |
|------|------------------------------------|--|
| 16.1 | Hospital-acquired paralysis | G51.0, G81–G83 |
| 16.2 | Dystonia, tremors & gait disorders | G24.4–G24.9, G25.2–G25.9, R25–R27, R29.0, R29.2 |
| 16.3 | Other nervous system complications | G00.2–G00.9, G03.0, G03.9, G04.8, G04.9, G06.0–G06.2, G08, G21.8, G40.00, G40.10, G40.20, G40.21, G40.30, G40.50, G40.60, G40.70, G40.80, G40.90, G40.91, G41.8, G47.0, G47.1, G47.2, G50.8, G50.9, G52.1–G52.9, G54.0, G54.1, G54.4, G54.6, G54.7–G54.9, G55.1, G55.3, G56.1–G56.3, G56.8, G56.9, G57.0– |

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G57.3, G57.8, G57.9,
 G58.0, G58.8, G58.9,
 G61.8, G62.8, G62.9,
 G63.8, G70.9, G72.8,
 G72.9, G73.6, G90.2,
 G90.8, G90.9, G91.3,
 G91.8, G91.9, G93.1,
 G93.2, G93.4, G93.5,
 G93.6, G93.8, G93.9,
 G95.0, G95.1, G95.2,
 G95.9, G96.0, G61.0,
 G96.9, G98, R29.5,
 R29.88

M CHADx 17 OTHER COMPLICATIONS

| | | |
|-------|---|---|
| 17.1 | Major symptoms | R02, R15, R16.1, R17, R19.0, R29.1, R47.0, R47.1, R48.1, R48.2, R49.1, R58, R68.0, R96.0 |
| 17.2 | Headache & migraine | R51, G43–G44 |
| 17.3 | Oedema & ascites | R18, R60 |
| 17.4 | Chest pain | R07.1–R07.4 |
| 17.5 | Abdominal pain | R10 |
| 17.6 | Fever (not classified to condition) | R50 |
| 17.7 | Convulsions | R56 |
| 17.8 | Dizziness, fainting & blackout | R42 & R55 |
| 17.9 | Complications of the eye and ear | H00–H95 (exc H25) |
| 17.10 | Musculoskeletal complications (not associated with Falls) | M00.0–M99.9, R29.89 |
| 17.11 | Dysphagia | R13 |
| 17.12 | Other symptoms | R03.0, R03.1, R05, R06.6, R06.7, R07.0, R09.3, R12, R14, R19.6, R29.3, R43.1, R43.2, R43.8, R46.2, R46.4, R46.8, R47.8, R49.0, R49.2, R49.8, R52.0, R52.9, R53, R59.0, R59.1, R61.0, R61.1, R61.9, R63.0–R63.5, R63.8, R68.2, R68.8, R69 |
| 144 | CHADx classes | |