

Revision Date

8 August 2023

**Key Content Source**

- a) J8K NHS Primary Care data extraction reference sets  
 b) SNOMED CT UK Clinical Extension  
 c) UK SNOMED CT Drug Extension

<https://isd.digital.nhs.uk/trud3/user/authenticated/group/0/pack/8/subpack/659/releases>  
<https://isd.digital.nhs.uk/trud3/user/authenticated/group/0/pack/26/subpack/101/releases>  
<https://isd.digital.nhs.uk/trud3/user/authenticated/group/0/pack/26/subpack/105/releases>

d) SNOMED CT UK Edition

<https://termbrowser.nhs.uk/?perspective=full&conceptId1=404684003&edition=uk-edition&release=v20201125&server=https://termbrowser.nhs.uk/sct-browser-api/snomed&langRefset=999001261000000100,999000691000001104>

SNOMED codes are used as an aid to patient registration only.  
 Changes in patient status after initial registration should be updated manually in Viso based on the patient profile in their medical record  
 Viso will mark co-morbidities 'present' based on the codes listed in this document. Viso will never mark a co-morbidity 'not present'. This should be confirmed by the HCP.  
 Viso will identify patient information based on the codes that are listed in this document.  
 Omron Healthcare cannot guarantee that the list is exhaustive. Primary Care Refsets have been used where available.  
 Primary Care Refsets contain SNOMED codes commonly used in UK general practice. Where patient records contain entries that are not included in the primary care refsets these will not be identified by Viso.

**IMPORTANT NOTE (1)****IMPORTANT NOTE (2)****IMPORTANT NOTE (3)****IMPORTANT NOTE (4)**

| Coding Map Content             | Definition in Viso                                                                                                                                                         | Code sets defined from                                                                                                                                                                                                                                      |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Data Upload                    | SNOMED codes used to write information to Patient Medical Record                                                                                                           |                                                                                                                                                                                                                                                             |
| Basic Information              | Patient demographic data used during initial registration                                                                                                                  |                                                                                                                                                                                                                                                             |
| Blood Pressure                 | Codes checked during initial registration, most recent code used as current blood pressure                                                                                 | Latest BP entry identified in SNOMED codes forming part of BP_CODE                                                                                                                                                                                          |
| Medication intolerance codes   | Medication intolerances recorded as SNOMED coded entries<br>Entries recorded in the medical record that have not been SNOMED coded will not be identified                  | Intolerance to specific medication (or medication category) marked in Viso if patient coded against the SNOMED codes identified in this matrix                                                                                                              |
| Target Organ Damage            | Presence of Hypertensive Retinopathy, Left Ventricular Hypertrophy, CKD or ACR > 30                                                                                        | Target Organ Damage marked present in Viso if patient if coded for<br>Hypertensive Retinopathy: Specific codes identified in SNOMED CT<br>LVH: Specific codes identified in SNOMED CT<br>ACR>30: NDAALB_CODE or APCR_CODE<br>CKD: CKD_CODE or CKD1AND2_CODE |
| Established CVD Identification | Past medical history of stroke or transient ischemic attack, heart attack, angina, narrowed peripheral arteries or an interventional procedure, or cerebrovascular disease | Stroke: STRK_CODE<br>Transient Ischemic Attack: TIA_CODE<br>Angina: ANGINA_CODE<br>Heart Attack: MI_CODE<br>Narrowed Peripheral Arteries: PAD_CODE<br>Cerebrovascular Disease: Specific codes identified in SNOMED CT                                       |
| Type 2 Diabetes                | Patients with a Diabetes Type 2 code that do not have a more recent Diabetes resolved code                                                                                 | Presence of unresolved DM TYPE2_CODE                                                                                                                                                                                                                        |
| Moderately Increased CVD risk  | Patients coded 'at risk of cardiovascular disease' OR 'High risk of cardiovascular disease' OR 'most recent CVDASS2_CODE score > 10%'                                      | Specific SNOMED codes for 'At risk' or 'High Risk' of CVD<br>CVD Assessment: CVDASS2_CODE                                                                                                                                                                   |
| CKD                            | Patients coded with CKD that do not have a resolved CKD Code                                                                                                               | CKD_CODE<br>CKD1AND2_CODE                                                                                                                                                                                                                                   |
| Type 1 Diabetes                | Patients with a Diabetes Type 1 code that do not have a more recent Diabetes resolved code                                                                                 | Diabetes marked present in Viso if Patients have a DM TYPE1_CODE that is more recent than DM RES_CODE                                                                                                                                                       |
| Evidence of Heart Failure      | Patients with a Heart Failure code that do not have a more recent Heart Failure resolved code                                                                              | HF_CODE                                                                                                                                                                                                                                                     |
| Multimorbidity                 | Any 2 of CKD, Type 1 diabetes, Evidence of Heart Failure, Type 2 diabetes, Established CVD                                                                                 | CKD_CODE<br>CKD1AND2_CODE<br>DM TYPE1_CODE<br>DM TYPE2_CODE<br>HF_CODE<br>Any of established CVD codes listed above                                                                                                                                         |
| Frailty                        | Patients with a frailty finding code                                                                                                                                       | Frailty (finding) and Frail elderly (finding) specific SNOMED CT Codes                                                                                                                                                                                      |
| Postural Drop                  | Patient coded for postural drop                                                                                                                                            | Postural drop identified via specific SNOMED codes listed in this document                                                                                                                                                                                  |

## SNOMED coded data uploaded from Viso to the Medical Record

Source: SNOMED CT UK Edition

| SNOMED code      | SNOMED code description                                   |
|------------------|-----------------------------------------------------------|
| 897931000000108  | Remote care monitoring commenced (situation)              |
| 897951000000101  | Remote care monitoring ended (situation)                  |
| 1110941000000107 | Hypertension monitoring invitation (procedure)            |
| 413606001        | Average home systolic blood pressure (observable entity)  |
| 413605002        | Average home diastolic blood pressure (observable entity) |

## Patient 'Basic Information' retrieved from EMR

Source: SNOMED CT UK Edition

| SNOMED code     | SNOMED code description                                             | Description in Viso             |
|-----------------|---------------------------------------------------------------------|---------------------------------|
| 424966008       | Patient - email address (observable entity)                         |                                 |
| 184103008       | Patient telephone number (observable entity)                        | Patient telephone number        |
| 428481002       | Patient mobile telephone number (observable entity)                 | Patient mobile telephone number |
| 408677003       | Forename (observable entity)                                        | Forename (observable entity)    |
| 184095009       | Patient forename (observable entity)                                | Forename                        |
| 184096005       | Patient surname (observable entity)                                 | Forename                        |
| 397678008       | Surname (observable entity)                                         | Surname                         |
|                 | Not needed for IM1 identification                                   | Address                         |
| 184102003       | Patient postal code (observable entity)                             | Postcode                        |
|                 |                                                                     |                                 |
| 395451000000101 | Patient National Health Service number (observable entity)          | NHS Number                      |
| 703117000       | Masculine gender (finding)                                          | Masculine Gender                |
| 703118005       | Feminine gender (finding)                                           | Feminine gender                 |
|                 |                                                                     |                                 |
| 413464008       | African race (racial group) (Includes African Race, Black, Negroid) | African Race                    |
| 413465009       | Afro-Caribbean (ethnic group)                                       | Afro Caribbean                  |
| 160531006       | Race: West indian (ethnic group)                                    |                                 |
| 77386006        | Pregnant (finding)                                                  | Pregnant                        |
| 169565003       | Pregnant - planned (finding)                                        | Considering Pregnancy           |
| 413712001       | Breastfeeding (mother) (observable entity)                          | BreastFeeding                   |
|                 |                                                                     |                                 |
| 184099003       | Date of birth (observable entity)                                   | Date of birth                   |

**Latest Blood Pressure. Defined in Viso As:**

Latest blood pressure reading from either office or home

Latest Blood pressure rule: Identify latest recorded data point from below data sets, including reading and date recorded

If latest data point from Office dataset, select 'Office'. If latest data point from Home Dataset, select 'Home'

Source: <https://isd.digital.nhs.uk/trud3/user/authenticated/group/0/pack/8/subpack/659/releases>

**Office Systolic Blood Pressure**

REFSET 999012731000230108

| SNOMED code | SNOMED code description                                     | Cluster ID | Cluster description                 |
|-------------|-------------------------------------------------------------|------------|-------------------------------------|
| 271649006   | Systolic blood pressure (observable entity)                 | BP_COD     | Blood pressure (BP) recording codes |
| 314440001   | Average systolic blood pressure (observable entity)         | BP_COD     | Blood pressure (BP) recording codes |
| 407554009   | Sitting systolic blood pressure (observable entity)         | BP_COD     | Blood pressure (BP) recording codes |
| 163030003   | On examination - Systolic blood pressure reading (finding)  | BP_COD     | Blood pressure (BP) recording codes |
| 251070002   | Non-invasive systolic arterial pressure (observable entity) | BP_COD     | Blood pressure (BP) recording codes |
| 399304008   | Systolic blood pressure on admission (observable entity)    | BP_COD     | Blood pressure (BP) recording codes |
| 716579001   | Baseline systolic blood pressure (observable entity)        | BP_COD     | Blood pressure (BP) recording codes |
| 72313002    | Systolic arterial pressure (observable entity)              | BP_COD     | Blood pressure (BP) recording codes |

**Office Diastolic Blood Pressure**

REFSET 999012731000230108

| SNOMED code      | SNOMED code description                                      | Cluster ID | Cluster description                 |
|------------------|--------------------------------------------------------------|------------|-------------------------------------|
| 271650006        | Diastolic blood pressure (observable entity)                 | BP_COD     | Blood pressure (BP) recording codes |
| 314453003        | Average diastolic blood pressure (observable entity)         | BP_COD     | Blood pressure (BP) recording codes |
| 407555005        | Sitting diastolic blood pressure (observable entity)         | BP_COD     | Blood pressure (BP) recording codes |
| 163031004        | On examination - Diastolic blood pressure reading (finding)  | BP_COD     | Blood pressure (BP) recording codes |
| 1091811000000102 | Diastolic arterial pressure (observable entity)              | BP_COD     | Blood pressure (BP) recording codes |
| 174255007        | Non-invasive diastolic arterial pressure (observable entity) | BP_COD     | Blood pressure (BP) recording codes |
| 716632005        | Baseline diastolic blood pressure (observable entity)        | BP_COD     | Blood pressure (BP) recording codes |

**Home Systolic Blood Pressure**

REFSET 999012731000230108

| SNOMED code     | SNOMED code description                                            | Cluster ID | Cluster description                 |
|-----------------|--------------------------------------------------------------------|------------|-------------------------------------|
| 314449000       | Average 24 hour systolic blood pressure (observable entity)        | BP_COD     | Blood pressure (BP) recording codes |
| 314464000       | 24 hour systolic blood pressure (observable entity)                | BP_COD     | Blood pressure (BP) recording codes |
| 413606001       | Average home systolic blood pressure (observable entity)           | BP_COD     | Blood pressure (BP) recording codes |
| 198081000000101 | Ambulatory systolic blood pressure (observable entity)             | BP_COD     | Blood pressure (BP) recording codes |
| 314445006       | Average night interval systolic blood pressure (observable entity) | BP_COD     | Blood pressure (BP) recording codes |
| 314446007       | Average day interval systolic blood pressure (observable entity)   | BP_COD     | Blood pressure (BP) recording codes |

**Home Diastolic Blood Pressure**

REFSET 999012731000230108

| SNOMED code     | SNOMED code description                                             | Cluster ID | Cluster description                 |
|-----------------|---------------------------------------------------------------------|------------|-------------------------------------|
| 413605002       | Average home diastolic blood pressure (observable entity)           | BP_COD     | Blood pressure (BP) recording codes |
| 314462001       | Average 24 hour diastolic blood pressure (observable entity)        | BP_COD     | Blood pressure (BP) recording codes |
| 314465004       | 24 hour diastolic blood pressure (observable entity)                | BP_COD     | Blood pressure (BP) recording codes |
| 198091000000104 | Ambulatory diastolic blood pressure (observable entity)             | BP_COD     | Blood pressure (BP) recording codes |
| 314460009       | Average night interval diastolic blood pressure (observable entity) | BP_COD     | Blood pressure (BP) recording codes |
| 314461008       | Average day interval diastolic blood pressure (observable entity)   | BP_COD     | Blood pressure (BP) recording codes |
| 314462001       | Average 24 hour diastolic blood pressure (observable entity)        | BP_COD     | Blood pressure (BP) recording codes |

**Blood Pressure (\*Systolic and diastolic)**

REFSET 999012731000230108

| SNOMED code     | SNOMED code description                                   | Cluster ID | Cluster description                 |
|-----------------|-----------------------------------------------------------|------------|-------------------------------------|
| 163035008       | Sitting blood pressure (observable entity)                | BP_COD     | Blood pressure (BP) recording codes |
| 251074006       | Non-invasive mean arterial pressure (observable entity)   | BP_COD     | Blood pressure (BP) recording codes |
| 251076008       | Non-invasive arterial pressure (observable entity)        | BP_COD     | Blood pressure (BP) recording codes |
| 251078009       | Post-vasodilatation arterial pressure (observable entity) | BP_COD     | Blood pressure (BP) recording codes |
| 26014004        | Increased mean arterial pressure (finding)                | BP_COD     | Blood pressure (BP) recording codes |
| 314463006       | 24 hour blood pressure (observable entity)                | BP_COD     | Blood pressure (BP) recording codes |
| 335661000000109 | Self measured blood pressure reading (observable entity)  | BP_COD     | Blood pressure (BP) recording codes |
| 364090009       | Systemic arterial pressure (observable entity)            | BP_COD     | Blood pressure (BP) recording codes |
| 386534000       | Arterial blood pressure (observable entity)               | BP_COD     | Blood pressure (BP) recording codes |
| 386536003       | Systemic blood pressure (observable entity)               | BP_COD     | Blood pressure (BP) recording codes |
| 6797001         | Mean blood pressure (observable entity)                   | BP_COD     | Blood pressure (BP) recording codes |
| 723232008       | Average blood pressure (observable entity)                | BP_COD     | Blood pressure (BP) recording codes |
| 723235005       | Maximum blood pressure (observable entity)                | BP_COD     | Blood pressure (BP) recording codes |
| 723236006       | Minimum blood pressure (observable entity)                | BP_COD     | Blood pressure (BP) recording codes |
| 723237002       | Non-invasive blood pressure (observable entity)           | BP_COD     | Blood pressure (BP) recording codes |
| 75367002        | Blood pressure (observable entity)                        | BP_COD     | Blood pressure (BP) recording codes |
| 928021000000108 | Baseline blood pressure (observable entity)               | BP_COD     | Blood pressure (BP) recording codes |

**Blood Pressure (finding)**

REFSET 999012731000230108

| SNOMED code | SNOMED code description                                           | Cluster ID | Cluster description                 |
|-------------|-------------------------------------------------------------------|------------|-------------------------------------|
| 12763006    | Finding of decreased blood pressure (finding)                     | BP_COD     | Blood pressure (BP) recording codes |
| 12929001    | Normal systolic arterial pressure (finding)                       | BP_COD     | Blood pressure (BP) recording codes |
| 163020007   | On examination - blood pressure reading (finding)                 | BP_COD     | Blood pressure (BP) recording codes |
| 163036009   | On examination - blood pressure decreased (finding)               | BP_COD     | Blood pressure (BP) recording codes |
| 163037000   | On examination - blood pressure labile (finding)                  | BP_COD     | Blood pressure (BP) recording codes |
| 170581003   | On examination - initial high blood pressure (finding)            | BP_COD     | Blood pressure (BP) recording codes |
| 163025002   | On examination - blood pressure reading normal (finding)          | BP_COD     | Blood pressure (BP) recording codes |
| 163026001   | On examination - blood pressure borderline raised (finding)       | BP_COD     | Blood pressure (BP) recording codes |
| 163027005   | On examination - blood pressure reading raised (finding)          | BP_COD     | Blood pressure (BP) recording codes |
| 163028000   | On examination - blood pressure reading very high (finding)       | BP_COD     | Blood pressure (BP) recording codes |
| 163029008   | On examination - blood pressure reading: postural drop (finding)  | BP_COD     | Blood pressure (BP) recording codes |
| 163030003   | On examination - Systolic blood pressure reading (finding)        | BP_COD     | Blood pressure (BP) recording codes |
| 163032006   | On examination - blood pressure stable (finding)                  | BP_COD     | Blood pressure (BP) recording codes |
| 163031004   | On examination - Diastolic blood pressure reading (finding)       | BP_COD     | Blood pressure (BP) recording codes |
| 170582005   | On examination - check high blood pressure (finding)              | BP_COD     | Blood pressure (BP) recording codes |
| 18050000    | Increased systolic arterial pressure (finding)                    | BP_COD     | Blood pressure (BP) recording codes |
| 18352002    | Abnormal systolic arterial pressure (finding)                     | BP_COD     | Blood pressure (BP) recording codes |
| 2004005     | Normal blood pressure (finding)                                   | BP_COD     | Blood pressure (BP) recording codes |
| 23154005    | Increased diastolic arterial pressure (finding)                   | BP_COD     | Blood pressure (BP) recording codes |
| 24184005    | Finding of increased blood pressure (finding)                     | BP_COD     | Blood pressure (BP) recording codes |
| 42689008    | Decreased diastolic arterial pressure (finding)                   | BP_COD     | Blood pressure (BP) recording codes |
| 49844009    | Abnormal diastolic arterial pressure (finding)                    | BP_COD     | Blood pressure (BP) recording codes |
| 53813002    | Normal diastolic arterial pressure (finding)                      | BP_COD     | Blood pressure (BP) recording codes |
| 707303003   | Post exercise systolic blood pressure response abnormal (finding) | BP_COD     | Blood pressure (BP) recording codes |
| 81010002    | Decreased systolic arterial pressure (finding)                    | BP_COD     | Blood pressure (BP) recording codes |

**Blood pressure (disorder)**

REFSET 999012731000230108

| SNOMED code | SNOMED code description                                     | Cluster ID | Cluster description                 |
|-------------|-------------------------------------------------------------|------------|-------------------------------------|
| 163022004   | On examination - blood pressure reading very low (disorder) | BP_COD     | Blood pressure (BP) recording codes |
| 163023009   | On examination - blood pressure reading low (disorder)      | BP_COD     | Blood pressure (BP) recording codes |
| 163024003   | On examination - blood pressure borderline low (disorder)   | BP_COD     | Blood pressure (BP) recording codes |
| 271870002   | Low blood pressure reading (disorder)                       | BP_COD     | Blood pressure (BP) recording codes |

**Blood pressure (procedure)**

REFSET 999012731000230108

| SNOMED code      | SNOMED code description                                                                                                       | Cluster ID | Cluster description                 |
|------------------|-------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------|
| 1105331000000106 | Blood pressure measurement using oscillometric monitoring device with opportunistic atrial fibrillation detection (procedure) | BP_COD     | Blood pressure (BP) recording codes |

**Medication Intolerance.** Defined in Viso as:

Intolerance to specific medication (or medication category) marked in Y/N if patient coded any of the below codes

|               |          |           |
|---------------|----------|-----------|
| ACE Inhibitor | XACE_COD | TXACE_COD |
| ARB           | XARB_COD | TXARB_COD |
| Beta Blockers | XBLO_COD | TXBLO_COD |

[illegible]

**Target Organ Damage. Defined in Viso As:**

Presence of Hypertensive Retinopathy, Left Ventricular Hypertrophy, CKD or ACR &gt; 30

Target Organ Damage marked present in Viso if patient coded for any of the below

Source <https://isd.digital.nhs.uk/trud3/user/authenticated/group/0/pack/8/subpack/659/releases>

| SNOMED code     | SNOMED code description                                                       |  |  |
|-----------------|-------------------------------------------------------------------------------|--|--|
| 6962006         | <b>Hypertensive retinopathy (disorder)</b>                                    |  |  |
| 340441000119107 | Disorder of left retina co-occurrent and due to hypertension                  |  |  |
| 334831000119106 | Disorder of right retina co-occurrent and due to hypertension (disorder)      |  |  |
| 345771000119101 | Disorder of bilateral retinas co-occurrent and due to hypertension (disorder) |  |  |

| SNOMED code | SNOMED code description                                   |  |  |
|-------------|-----------------------------------------------------------|--|--|
| 55827005    | <b>Left ventricular hypertrophy</b>                       |  |  |
| 428163005   | Hypertensive left ventricular hypertrophy                 |  |  |
| 840303004   | Mild left ventricular hypertrophy (disorder)              |  |  |
| 840304005   | Moderate left ventricular hypertrophy (disorder)          |  |  |
| 840305006   | Severe left ventricular hypertrophy (disorder)            |  |  |
| 164873001   | Electrocardiographic left ventricle hypertrophy (finding) |  |  |
| 25488008    | Left ventricular hypertrophy by electrocardiogram         |  |  |

**Requirement**

ACR &gt; 30

| SNOMED code      | SNOMED code description                                                      | Cluster ID | Cluster ID (other) |
|------------------|------------------------------------------------------------------------------|------------|--------------------|
| 1028271000000109 | Albumin/creatinine ratio (observable entity)                                 |            |                    |
| 1006631000000104 | Random urine protein:creatinine ratio (observable entity)                    |            | APCR_COD           |
| 1023491000000104 | Urine albumin:creatinine ratio (observable entity)                           | NDAALB_COD | APCR_COD           |
| 1027791000000103 | Urine microalbumin/creatinine ratio (observable entity)                      | NDAALB_COD | APCR_COD           |
| 1028731000000100 | Urine protein/creatinine ratio (observable entity)                           | NDAALB_COD | APCR_COD           |
| 1108311000000109 | Ratio of protein to creatinine in 24 hour urine specimen (observable entity) | NDAALB_COD | APCR_COD           |
| 994621000000103  | Urine microalbumin profile (observable entity)                               | NDAALB_COD |                    |

Chronic Kidney Disease: CKD marked present in Viso if Patients have a CKD\_COD. Date of CKD\_COD or CKD1AND2\_COD that is more recent than CKDRES\_COD

**PCD Refset ID**

999004011000230108

**CKD\_COD**

| SNOMED code     | SNOMED code description                                                                                    | Cluster ID | Cluster description                          |
|-----------------|------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------|
| 129151000119102 | Chronic kidney disease stage 4 due to hypertension (disorder)                                              | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 129161000119100 | Chronic kidney disease stage 5 due to hypertension (disorder)                                              | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 129171000119106 | Chronic kidney disease stage 3 due to hypertension (disorder)                                              | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 140101000119109 | Hypertension in chronic kidney disease stage 5 due to type 2 diabetes mellitus (disorder)                  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 140111000119107 | Hypertension in chronic kidney disease stage 4 due to type 2 diabetes mellitus (disorder)                  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 140121000119100 | Hypertension in chronic kidney disease stage 3 due to type 2 diabetes mellitus (disorder)                  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 153851000119106 | Malignant hypertensive chronic kidney disease stage 5 (disorder)                                           | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 284991000119104 | Chronic kidney disease stage 3 due to benign hypertension (disorder)                                       | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 285001000119105 | Chronic kidney disease stage 4 due to benign hypertension (disorder)                                       | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 285011000119108 | Chronic kidney disease stage 5 due to benign hypertension (disorder)                                       | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 285871000119106 | Malignant hypertensive chronic kidney disease stage 3 (disorder)                                           | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 285881000119109 | Malignant hypertensive chronic kidney disease stage 4 (disorder)                                           | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 324251000000105 | Chronic kidney disease stage 3 with proteinuria (disorder)                                                 | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 324281000000104 | Chronic kidney disease stage 3 without proteinuria (disorder)                                              | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 324311000000101 | Chronic kidney disease stage 3A with proteinuria (disorder)                                                | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 324341000000100 | Chronic kidney disease stage 3A without proteinuria (disorder)                                             | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 324371000000106 | Chronic kidney disease stage 3B with proteinuria (disorder)                                                | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 324411000000105 | Chronic kidney disease stage 3B without proteinuria (disorder)                                             | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 324441000000106 | Chronic kidney disease stage 4 with proteinuria (disorder)                                                 | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 324471000000100 | Chronic kidney disease stage 4 without proteinuria (disorder)                                              | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 324501000000107 | Chronic kidney disease stage 5 with proteinuria (disorder)                                                 | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 324541000000105 | Chronic kidney disease stage 5 without proteinuria (disorder)                                              | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 431857002       | Chronic kidney disease stage 4 (disorder)                                                                  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 433144002       | Chronic kidney disease stage 3 (disorder)                                                                  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 433146000       | Chronic kidney disease stage 5 (disorder)                                                                  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 691421000119108 | Anemia co-occurrent and due to chronic kidney disease stage 3 (disorder)                                   | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 700378005       | Chronic kidney disease stage 3A (disorder)                                                                 | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 700379002       | Chronic kidney disease stage 3B (disorder)                                                                 | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 711000119100    | Chronic kidney disease stage 5 due to type 2 diabetes mellitus (disorder)                                  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 714152005       | Chronic kidney disease stage 5 on dialysis (disorder)                                                      | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 714153000       | Chronic kidney disease stage 5 with transplant (disorder)                                                  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 721000119107    | Chronic kidney disease stage 4 due to type 2 diabetes mellitus (disorder)                                  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 731000119105    | Chronic kidney disease stage 3 due to type 2 diabetes mellitus (disorder)                                  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 90741000119107  | Chronic kidney disease stage 3 due to type 1 diabetes mellitus (disorder)                                  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 90751000119109  | Chronic kidney disease stage 4 due to type 1 diabetes mellitus (disorder)                                  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 90761000119106  | Chronic kidney disease stage 5 due to type 1 diabetes mellitus (disorder)                                  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 949881000000106 | Chronic kidney disease with glomerular filtration rate category G3a and albuminuria category A1 (disorder) | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 949901000000109 | Chronic kidney disease with glomerular filtration rate category G3a and albuminuria category A2 (disorder) | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 949921000000100 | Chronic kidney disease with glomerular filtration rate category G3a and albuminuria category A3 (disorder) | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 950061000000103 | Chronic kidney disease with glomerular filtration rate category G3b and albuminuria category A1 (disorder) | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 950081000000107 | Chronic kidney disease with glomerular filtration rate category G3b and albuminuria category A2 (disorder) | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 950101000000101 | Chronic kidney disease with glomerular filtration rate category G3b and albuminuria category A3 (disorder) | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 950181000000106 | Chronic kidney disease with glomerular filtration rate category G4 and albuminuria category A1 (disorder)  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 950211000000107 | Chronic kidney disease with glomerular filtration rate category G4 and albuminuria category A2 (disorder)  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 950231000000104 | Chronic kidney disease with glomerular filtration rate category G4 and albuminuria category A3 (disorder)  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 950251000000106 | Chronic kidney disease with glomerular filtration rate category G5 and albuminuria category A1 (disorder)  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 950291000000103 | Chronic kidney disease with glomerular filtration rate category G5 and albuminuria category A2 (disorder)  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 950311000000102 | Chronic kidney disease with glomerular filtration rate category G5 and albuminuria category A3 (disorder)  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 96711000119105  | Hypertensive heart AND chronic kidney disease stage 5 (disorder)                                           | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 96721000119103  | Hypertensive heart AND chronic kidney disease stage 4 (disorder)                                           | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 96731000119100  | Hypertensive heart AND chronic kidney disease stage 3 (disorder)                                           | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 368461000119103 | Chronic kidney disease stage 5 due to drug induced diabetes mellitus (disorder)                            | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 368441000119102 | Chronic kidney disease stage 3 due to drug induced diabetes mellitus (disorder)                            | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 368451000119100 | Chronic kidney disease stage 4 due to drug induced diabetes mellitus (disorder)                            | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |

| PCD Refset ID 999004051000230107 |                                                                                                           | CKD1AND2_COD |                                              |
|----------------------------------|-----------------------------------------------------------------------------------------------------------|--------------|----------------------------------------------|
| SNOMED code                      | SNOMED code description                                                                                   | Cluster ID   | Cluster description                          |
| 96751000119106                   | Hypertensive heart AND chronic kidney disease stage 1 (disorder)                                          | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 96741000119109                   | Hypertensive heart AND chronic kidney disease stage 2 (disorder)                                          | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 949621000000109                  | Chronic kidney disease with glomerular filtration rate category G2 and albuminuria category A3 (disorder) | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 949561000000100                  | Chronic kidney disease with glomerular filtration rate category G2 and albuminuria category A2 (disorder) | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 949521000000108                  | Chronic kidney disease with glomerular filtration rate category G2 and albuminuria category A1 (disorder) | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 949481000000108                  | Chronic kidney disease with glomerular filtration rate category G1 and albuminuria category A3 (disorder) | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 949421000000107                  | Chronic kidney disease with glomerular filtration rate category G1 and albuminuria category A2 (disorder) | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 949401000000103                  | Chronic kidney disease with glomerular filtration rate category G1 and albuminuria category A1 (disorder) | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 90731000119103                   | Chronic kidney disease stage 2 due to type 1 diabetes mellitus (disorder)                                 | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 90721000119101                   | Chronic kidney disease stage 1 due to type 1 diabetes mellitus (disorder)                                 | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 751000119104                     | Chronic kidney disease stage 1 due to type 2 diabetes mellitus (disorder)                                 | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 741000119101                     | Chronic kidney disease stage 2 due to type 2 diabetes mellitus (disorder)                                 | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 431856006                        | Chronic kidney disease stage 2 (disorder)                                                                 | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 431855005                        | Chronic kidney disease stage 1 (disorder)                                                                 | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 324211000000106                  | Chronic kidney disease stage 2 without proteinuria (disorder)                                             | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 324181000000105                  | Chronic kidney disease stage 2 with proteinuria (disorder)                                                | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 324151000000104                  | Chronic kidney disease stage 1 without proteinuria (disorder)                                             | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 324121000000109                  | Chronic kidney disease stage 1 with proteinuria (disorder)                                                | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 285861000119100                  | Malignant hypertensive chronic kidney disease stage 2 (disorder)                                          | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 285851000119102                  | Malignant hypertensive chronic kidney disease stage 1 (disorder)                                          | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 284981000119102                  | Chronic kidney disease stage 2 due to benign hypertension (disorder)                                      | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 284971000119100                  | Chronic kidney disease stage 1 due to benign hypertension (disorder)                                      | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 140131000119102                  | Hypertension in chronic kidney disease stage 2 due to type 2 diabetes mellitus (disorder)                 | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 129181000119109                  | Chronic kidney disease stage 2 due to hypertension (disorder)                                             | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 117681000119102                  | Chronic kidney disease stage 1 due to hypertension (disorder)                                             | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 368431000119106                  | Chronic kidney disease stage 2 due to drug induced diabetes mellitus (disorder)                           | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 368421000119108                  | Chronic kidney disease stage 1 due to drug induced diabetes mellitus (disorder)                           | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |

| PCD Refset ID 999004171000230102 |                                           | CKDRES_COD |                                             |
|----------------------------------|-------------------------------------------|------------|---------------------------------------------|
| SNOMED code                      | SNOMED code description                   | Cluster ID | Cluster description                         |
| 939211000000104                  | Chronic kidney disease resolved (finding) | CKDRES_COD | Chronic kidney disease (CKD) resolved codes |



**Established CVD. Defined in Viso As:**

Past medical history of stroke or transient ischemic attack, heart attack, angina, narrowed peripheral arteries or an interventional procedure, or cerebrovascular disease

Established CVD marked present in Viso if patient coded for any of the below

Source: <https://isd.digital.nhs.uk/trud3/user/authenticated/group/0/pack/8/subpack/659/releases>  
 Source: SNOMED CT UK Edition

**Stroke Codes**

| PCD Refset ID     | 999005531000230105                                                                              | STRK_COD   |                        |
|-------------------|-------------------------------------------------------------------------------------------------|------------|------------------------|
| SNOMED code       | SNOMED code description                                                                         | Cluster ID | Cluster description    |
| 426814001         | Transient cerebral ischemia due to atrial fibrillation (disorder)                               | STRK_COD   | Stroke diagnosis codes |
| 444172003         | Recurrent transient cerebral ischemic attack (disorder)                                         | STRK_COD   | Stroke diagnosis codes |
| 1089411000000104  | Cerebral infarction due to occlusion of cerebral artery (disorder)                              | STRK_COD   | Stroke diagnosis codes |
| 1089421000000105  | Cerebral infarction due to stenosis of cerebral artery (disorder)                               | STRK_COD   | Stroke diagnosis codes |
| 111297002         | Nonparalytic stroke (disorder)                                                                  | STRK_COD   | Stroke diagnosis codes |
| 116288000         | Paralytic stroke (disorder)                                                                     | STRK_COD   | Stroke diagnosis codes |
| 140921000119102   | Ischemic stroke without coma (disorder)                                                         | STRK_COD   | Stroke diagnosis codes |
| 15978431000119106 | Thrombosis of right vertebral artery (disorder)                                                 | STRK_COD   | Stroke diagnosis codes |
| 16000391000119104 | Cerebrovascular accident due to occlusion of right posterior cerebral artery (disorder)         | STRK_COD   | Stroke diagnosis codes |
| 16000431000119109 | Cerebrovascular accident due to occlusion of right middle cerebral artery (disorder)            | STRK_COD   | Stroke diagnosis codes |
| 16218291000119100 | Acute cerebral ischemia (disorder)                                                              | STRK_COD   | Stroke diagnosis codes |
| 16371781000119100 | Cerebellar stroke (disorder)                                                                    | STRK_COD   | Stroke diagnosis codes |
| 195165005         | Basal ganglia hemorrhage (disorder)                                                             | STRK_COD   | Stroke diagnosis codes |
| 195169004         | Intracerebral hemorrhage, multiple localized (disorder)                                         | STRK_COD   | Stroke diagnosis codes |
| 195212005         | Brainstem stroke syndrome (disorder)                                                            | STRK_COD   | Stroke diagnosis codes |
| 195216008         | Left sided cerebral hemisphere cerebrovascular accident (disorder)                              | STRK_COD   | Stroke diagnosis codes |
| 195217004         | Right sided cerebral hemisphere cerebrovascular accident (disorder)                             | STRK_COD   | Stroke diagnosis codes |
| 195230003         | Cerebral infarction due to cerebral venous thrombosis, non-pyogenic (disorder)                  | STRK_COD   | Stroke diagnosis codes |
| 20059004          | Occlusion of cerebral artery (disorder)                                                         | STRK_COD   | Stroke diagnosis codes |
| 230690007         | Cerebrovascular accident (disorder)                                                             | STRK_COD   | Stroke diagnosis codes |
| 230694003         | Total anterior cerebral circulation infarction (disorder)                                       | STRK_COD   | Stroke diagnosis codes |
| 230702001         | Lacunar ataxic hemiparesis (disorder)                                                           | STRK_COD   | Stroke diagnosis codes |
| 230703006         | Dysarthria-clumsy hand syndrome (disorder)                                                      | STRK_COD   | Stroke diagnosis codes |
| 230706003         | Hemorrhagic cerebral infarction (disorder)                                                      | STRK_COD   | Stroke diagnosis codes |
| 230707007         | Anterior cerebral circulation hemorrhagic infarction (disorder)                                 | STRK_COD   | Stroke diagnosis codes |
| 230708002         | Posterior cerebral circulation hemorrhagic infarction (disorder)                                | STRK_COD   | Stroke diagnosis codes |
| 230709005         | Massive supratentorial cerebral hemorrhage (disorder)                                           | STRK_COD   | Stroke diagnosis codes |
| 230710000         | Lobar cerebral hemorrhage (disorder)                                                            | STRK_COD   | Stroke diagnosis codes |
| 230711001         | Thalamic hemorrhage (disorder)                                                                  | STRK_COD   | Stroke diagnosis codes |
| 230712008         | Lacunar hemorrhage (disorder)                                                                   | STRK_COD   | Stroke diagnosis codes |
| 230714009         | Anterior circulation stroke of uncertain pathology (disorder)                                   | STRK_COD   | Stroke diagnosis codes |
| 230715005         | Posterior circulation stroke of uncertain pathology (disorder)                                  | STRK_COD   | Stroke diagnosis codes |
| 24654003          | Weber-Gubler syndrome (disorder)                                                                | STRK_COD   | Stroke diagnosis codes |
| 25133001          | Completed stroke (disorder)                                                                     | STRK_COD   | Stroke diagnosis codes |
| 291511000119103   | Spontaneous hemorrhage of deep cerebral hemisphere (disorder)                                   | STRK_COD   | Stroke diagnosis codes |
| 291521000119105   | Spontaneous hemorrhage of cortical intracerebral hemisphere (disorder)                          | STRK_COD   | Stroke diagnosis codes |
| 291531000119108   | Spontaneous hemorrhage of cerebral hemisphere (disorder)                                        | STRK_COD   | Stroke diagnosis codes |
| 297138001         | Embolus of circle of Willis (disorder)                                                          | STRK_COD   | Stroke diagnosis codes |
| 307766002         | Left sided cerebral infarction (disorder)                                                       | STRK_COD   | Stroke diagnosis codes |
| 307767006         | Right sided cerebral infarction (disorder)                                                      | STRK_COD   | Stroke diagnosis codes |
| 329361000119107   | Cerebrovascular accident due to occlusion of right middle cerebral artery by embolus (disorder) | STRK_COD   | Stroke diagnosis codes |
| 329371000119101   | Cerebrovascular accident due to occlusion of left middle cerebral artery by embolus (disorder)  | STRK_COD   | Stroke diagnosis codes |
| 329461000119102   | Cerebrovascular accident due to occlusion of left cerebral artery by embolus (disorder)         | STRK_COD   | Stroke diagnosis codes |
| 329481000119106   | Occlusion of right middle cerebral artery (disorder)                                            | STRK_COD   | Stroke diagnosis codes |
| 329491000119109   | Occlusion of left middle cerebral artery (disorder)                                             | STRK_COD   | Stroke diagnosis codes |
| 329561000119101   | Occlusion of right posterior cerebral artery (disorder)                                         | STRK_COD   | Stroke diagnosis codes |
| 329571000119107   | Occlusion of left posterior cerebral artery (disorder)                                          | STRK_COD   | Stroke diagnosis codes |
| 329641000119104   | Cerebrovascular accident due to thrombus of basilar artery (disorder)                           | STRK_COD   | Stroke diagnosis codes |
| 329651000119102   | Cerebrovascular accident due to thrombus of right carotid artery (disorder)                     | STRK_COD   | Stroke diagnosis codes |
| 330411000119109   | Lacunar ataxic hemiparesis of left nondominant side (disorder)                                  | STRK_COD   | Stroke diagnosis codes |
| 330791000119108   | Cerebrovascular accident due to thrombus of left carotid artery (disorder)                      | STRK_COD   | Stroke diagnosis codes |
| 371040005         | Thrombotic stroke (disorder)                                                                    | STRK_COD   | Stroke diagnosis codes |
| 373606000         | Occlusive stroke (disorder)                                                                     | STRK_COD   | Stroke diagnosis codes |
| 426107000         | Acute lacunar infarction (disorder)                                                             | STRK_COD   | Stroke diagnosis codes |
| 432504007         | Cerebral infarction (disorder)                                                                  | STRK_COD   | Stroke diagnosis codes |
| 49422009          | Cortical hemorrhage (disorder)                                                                  | STRK_COD   | Stroke diagnosis codes |
| 57981008          | Progressing stroke (disorder)                                                                   | STRK_COD   | Stroke diagnosis codes |
| 71444005          | Cerebral arterial thrombosis (disorder)                                                         | STRK_COD   | Stroke diagnosis codes |
| 724429004         | Stroke co-occurrent with migraine (disorder)                                                    | STRK_COD   | Stroke diagnosis codes |
| 734963004         | Embolus of right posterior cerebral artery (disorder)                                           | STRK_COD   | Stroke diagnosis codes |
| 734965006         | Embolus of right middle cerebral artery (disorder)                                              | STRK_COD   | Stroke diagnosis codes |
| 75543006          | Cerebral embolism (disorder)                                                                    | STRK_COD   | Stroke diagnosis codes |
| 762629007         | Occlusion of right middle cerebral artery by embolus (disorder)                                 | STRK_COD   | Stroke diagnosis codes |
| 762630002         | Occlusion of left middle cerebral artery by embolus (disorder)                                  | STRK_COD   | Stroke diagnosis codes |
| 78569004          | Posterior inferior cerebellar artery syndrome (disorder)                                        | STRK_COD   | Stroke diagnosis codes |
| 87555007          | Claude's syndrome (disorder)                                                                    | STRK_COD   | Stroke diagnosis codes |
| 90099008          | Subcortical leukoencephalopathy (disorder)                                                      | STRK_COD   | Stroke diagnosis codes |
| 95457000          | Brain stem infarction (disorder)                                                                | STRK_COD   | Stroke diagnosis codes |
| 95460007          | Cerebellar infarction (disorder)                                                                | STRK_COD   | Stroke diagnosis codes |
| 16661971000119104 | Cerebrovascular accident due to stenosis of bilateral carotid arteries (disorder)               | STRK_COD   | Stroke diagnosis codes |
| 16896891000119106 | History of ischemic cerebrovascular accident                                                    | STRK_COD   | Stroke diagnosis codes |
| 16661931000119102 | Cerebrovascular accident due to stenosis of bilateral vertebral arteries (disorder)             | STRK_COD   | Stroke diagnosis codes |
| 56267009          | Multi-infarct dementia (disorder)                                                               | STRK_COD   | Stroke diagnosis codes |
| 723082006         | Silent cerebral infarct (disorder)                                                              | STRK_COD   | Stroke diagnosis codes |
| 788884002         | Cerebral ischemic stroke due to subarachnoid hemorrhage                                         | STRK_COD   | Stroke diagnosis codes |
| 1078001000000105  | Haemorrhagic stroke (disorder)                                                                  | STRK_COD   | Stroke diagnosis codes |
| 125081000119106   | Cerebral infarction due to occlusion of precerebral artery (disorder)                           | STRK_COD   | Stroke diagnosis codes |
| 14309005          | Anterior choroideal artery syndrome (disorder)                                                  | STRK_COD   | Stroke diagnosis codes |
| 16000351000119109 | Cerebrovascular accident due to occlusion of left posterior cerebral artery (disorder)          | STRK_COD   | Stroke diagnosis codes |
| 16000511000119103 | Cerebrovascular accident due to occlusion of left middle cerebral artery (disorder)             | STRK_COD   | Stroke diagnosis codes |
| 16002031000119102 | Cerebrovascular accident due to thrombus of right middle cerebral artery (disorder)             | STRK_COD   | Stroke diagnosis codes |
| 16002111000119106 | Cerebrovascular accident due to thrombus of left middle cerebral artery (disorder)              | STRK_COD   | Stroke diagnosis codes |
| 195167002         | External capsule hemorrhage (disorder)                                                          | STRK_COD   | Stroke diagnosis codes |
| 195185009         | Cerebral infarct due to thrombosis of precerebral arteries (disorder)                           | STRK_COD   | Stroke diagnosis codes |
| 195186005         | Cerebral infarction due to embolism of precerebral arteries (disorder)                          | STRK_COD   | Stroke diagnosis codes |
| 195189003         | Cerebral infarction due to thrombosis of cerebral arteries (disorder)                           | STRK_COD   | Stroke diagnosis codes |
| 195190007         | Cerebral infarction due to embolism of cerebral arteries (disorder)                             | STRK_COD   | Stroke diagnosis codes |
| 195209007         | Middle cerebral artery syndrome (disorder)                                                      | STRK_COD   | Stroke diagnosis codes |
| 195210002         | Anterior cerebral artery syndrome (disorder)                                                    | STRK_COD   | Stroke diagnosis codes |
| 195211003         | Posterior cerebral artery syndrome (disorder)                                                   | STRK_COD   | Stroke diagnosis codes |
| 195213000         | Cerebellar stroke syndrome (disorder)                                                           | STRK_COD   | Stroke diagnosis codes |
| 20908003          | Subcortical cerebral hemorrhage (disorder)                                                      | STRK_COD   | Stroke diagnosis codes |
| 230691006         | Cerebrovascular accident due to occlusion of cerebral artery (disorder)                         | STRK_COD   | Stroke diagnosis codes |
| 230692004         | Infarction - precerebral (disorder)                                                             | STRK_COD   | Stroke diagnosis codes |
| 230693009         | Anterior cerebral circulation infarction (disorder)                                             | STRK_COD   | Stroke diagnosis codes |

|                    |                                                                                                    |          |                        |
|--------------------|----------------------------------------------------------------------------------------------------|----------|------------------------|
| 230695002          | Partial anterior cerebral circulation infarction (disorder)                                        | STRK_COD | Stroke diagnosis codes |
| 230696001          | Posterior cerebral circulation infarction (disorder)                                               | STRK_COD | Stroke diagnosis codes |
| 230698000          | Lacunar infarction (disorder)                                                                      | STRK_COD | Stroke diagnosis codes |
| 230699008          | Pure motor lacunar infarction (disorder)                                                           | STRK_COD | Stroke diagnosis codes |
| 230700009          | Pure sensory lacunar infarction (disorder)                                                         | STRK_COD | Stroke diagnosis codes |
| 230701008          | Pure sensorimotor lacunar infarction (disorder)                                                    | STRK_COD | Stroke diagnosis codes |
| 230704000          | Multi-infarct state (disorder)                                                                     | STRK_COD | Stroke diagnosis codes |
| 230713003          | Stroke of uncertain pathology (disorder)                                                           | STRK_COD | Stroke diagnosis codes |
| 274100004          | Cerebral hemorrhage (disorder)                                                                     | STRK_COD | Stroke diagnosis codes |
| 275434003          | Stroke in the puerperium (disorder)                                                                | STRK_COD | Stroke diagnosis codes |
| 276219001          | Occipital cerebral infarction (disorder)                                                           | STRK_COD | Stroke diagnosis codes |
| 276220007          | Foville syndrome (disorder)                                                                        | STRK_COD | Stroke diagnosis codes |
| 276221006          | Millard-Gubler syndrome (disorder)                                                                 | STRK_COD | Stroke diagnosis codes |
| 276222004          | Top of basilar syndrome (disorder)                                                                 | STRK_COD | Stroke diagnosis codes |
| 276722003          | Intracerebellar and posterior fossa hemorrhage (disorder)                                          | STRK_COD | Stroke diagnosis codes |
| 281240008          | Extension of cerebrovascular accident (disorder)                                                   | STRK_COD | Stroke diagnosis codes |
| 291541000119104    | Spontaneous hemorrhage of brain stem (disorder)                                                    | STRK_COD | Stroke diagnosis codes |
| 292851000119109    | Lacunar ataxic hemiparesis of right dominant side (disorder)                                       | STRK_COD | Stroke diagnosis codes |
| 292861000119106    | Lacunar ataxic hemiparesis of left dominant side (disorder)                                        | STRK_COD | Stroke diagnosis codes |
| 307363008          | Multiple lacunar infarcts (disorder)                                                               | STRK_COD | Stroke diagnosis codes |
| 308128006          | Right sided intracerebral hemorrhage, unspecified (disorder)                                       | STRK_COD | Stroke diagnosis codes |
| 329421000119107    | Cerebrovascular accident due to occlusion of right posterior cerebral artery by embolus (disorder) | STRK_COD | Stroke diagnosis codes |
| 329431000119105    | Cerebrovascular accident due to occlusion of left posterior cerebral artery by embolus (disorder)  | STRK_COD | Stroke diagnosis codes |
| 330421000119102    | Lacunar ataxic hemiparesis of right nondominant side (disorder)                                    | STRK_COD | Stroke diagnosis codes |
| 371041009          | Embolic stroke (disorder)                                                                          | STRK_COD | Stroke diagnosis codes |
| 413102000          | Infarction of basal ganglia (disorder)                                                             | STRK_COD | Stroke diagnosis codes |
| 413758000          | Cardioembolic stroke (disorder)                                                                    | STRK_COD | Stroke diagnosis codes |
| 426983002          | Infarction of medulla oblongata (disorder)                                                         | STRK_COD | Stroke diagnosis codes |
| 444657001          | Superior cerebellar artery syndrome (disorder)                                                     | STRK_COD | Stroke diagnosis codes |
| 52201006           | Internal capsule hemorrhage (disorder)                                                             | STRK_COD | Stroke diagnosis codes |
| 724424009          | Cerebral ischemic stroke due to small artery occlusion (disorder)                                  | STRK_COD | Stroke diagnosis codes |
| 732923001          | Hemorrhage of medulla oblongata (disorder)                                                         | STRK_COD | Stroke diagnosis codes |
| 734383005          | Thrombosis of left middle cerebral artery (disorder)                                               | STRK_COD | Stroke diagnosis codes |
| 734384004          | Thrombosis of right middle cerebral artery (disorder)                                              | STRK_COD | Stroke diagnosis codes |
| 734961002          | Embolus of left posterior cerebral artery (disorder)                                               | STRK_COD | Stroke diagnosis codes |
| 734964005          | Embolus of left middle cerebral artery (disorder)                                                  | STRK_COD | Stroke diagnosis codes |
| 75038005           | Cerebellar hemorrhage (disorder)                                                                   | STRK_COD | Stroke diagnosis codes |
| 762651004          | Occlusion of right posterior cerebral artery by embolus (disorder)                                 | STRK_COD | Stroke diagnosis codes |
| 762652006          | Occlusion of left posterior cerebral artery by embolus (disorder)                                  | STRK_COD | Stroke diagnosis codes |
| 7713009            | Intrapontine hemorrhage (disorder)                                                                 | STRK_COD | Stroke diagnosis codes |
| 95454007           | Brain stem hemorrhage (disorder)                                                                   | STRK_COD | Stroke diagnosis codes |
| 16896851000119101  | History of embolic cerebrovascular accident (situation)                                            | STRK_COD | Stroke diagnosis codes |
| 195168007          | Intracerebral hemorrhage with intraventricular hemorrhage (disorder)                               | STRK_COD | Stroke diagnosis codes |
| 16644681000119102  | Cerebrovascular accident due to occlusion of bilateral pontine arteries (disorder)                 | STRK_COD | Stroke diagnosis codes |
| 788455001          | Occlusion of bilateral pontine arteries (disorder)                                                 | STRK_COD | Stroke diagnosis codes |
| 788880006          | Cerebral ischemic stroke due to dissection of artery                                               | STRK_COD | Stroke diagnosis codes |
| 788881005          | Cerebral ischemic stroke due to aortic arch embolism                                               | STRK_COD | Stroke diagnosis codes |
| 788882003          | Cerebral ischemic stroke due to global hypoperfusion with watershed infarct                        | STRK_COD | Stroke diagnosis codes |
| 788883008          | Cerebral ischemic stroke due to hypercoagulable state                                              | STRK_COD | Stroke diagnosis codes |
| 870544005          | Occlusion of distal basilar artery (disorder)                                                      | STRK_COD | Stroke diagnosis codes |
| 870579007          | Occlusion of branch of basilar artery (disorder)                                                   | STRK_COD | Stroke diagnosis codes |
| 137592291000119101 | Acute cerebrovascular accident due to occlusion of right posterior cerebral artery (disorder)      | STRK_COD | Stroke diagnosis codes |
| 272202251000119109 | Acute cerebrovascular accident due to occlusion of right middle cerebral artery (disorder)         | STRK_COD | Stroke diagnosis codes |
| 329451000119104    | Cerebrovascular accident due to occlusion of right cerebellar artery by embolus (disorder)         | STRK_COD | Stroke diagnosis codes |
| 346410121000119101 | Acute cerebrovascular accident due to thrombosis of left middle cerebral artery (disorder)         | STRK_COD | Stroke diagnosis codes |
| 40076141000119107  | Acute cerebrovascular accident due to occlusion of left posterior cerebral artery (disorder)       | STRK_COD | Stroke diagnosis codes |
| 46583221000119102  | Acute cerebrovascular accident due to stenosis of left carotid artery (disorder)                   | STRK_COD | Stroke diagnosis codes |
| 59589961000119100  | Acute cerebrovascular accident of basal ganglia (disorder)                                         | STRK_COD | Stroke diagnosis codes |
| 63230211000119103  | Acute cerebrovascular accident due to occlusion of left middle cerebral artery (disorder)          | STRK_COD | Stroke diagnosis codes |
| 652287331000119104 | Acute cerebrovascular accident of brainstem (disorder)                                             | STRK_COD | Stroke diagnosis codes |
| 788310011000119109 | Acute cerebrovascular accident due to occlusion of left cerebellar artery (disorder)               | STRK_COD | Stroke diagnosis codes |
| 881694631000119107 | Acute cerebrovascular accident of medulla oblongata (disorder)                                     | STRK_COD | Stroke diagnosis codes |
| 931164671000119105 | Acute cerebrovascular accident due to embolism of right middle cerebral artery (disorder)          | STRK_COD | Stroke diagnosis codes |
| 936648941000119105 | Acute cerebrovascular accident due to embolism of left middle cerebral artery (disorder)           | STRK_COD | Stroke diagnosis codes |
| 16891111000119104  | Cryptogenic stroke (disorder)                                                                      | STRK_COD | Stroke diagnosis codes |
| 329501000119102    | Occlusion of bilateral middle cerebral arteries (disorder)                                         | STRK_COD | Stroke diagnosis codes |
| 329541000119100    | Occlusion of bilateral anterior cerebral arteries (disorder)                                       | STRK_COD | Stroke diagnosis codes |
| 407573811000119100 | Acute cerebrovascular accident due to occlusion of right carotid artery (disorder)                 | STRK_COD | Stroke diagnosis codes |
| 502836591000119106 | Acute cerebrovascular accident due to occlusion of left carotid artery (disorder)                  | STRK_COD | Stroke diagnosis codes |
| 693158221000119105 | Acute cerebrovascular accident due to stenosis of right carotid artery (disorder)                  | STRK_COD | Stroke diagnosis codes |
| 738211801000119107 | Acute cerebrovascular accident due to thrombosis of right middle cerebral artery (disorder)        | STRK_COD | Stroke diagnosis codes |
| 738478141000119101 | Acute cerebrovascular accident due to occlusion of right cerebellar artery (disorder)              | STRK_COD | Stroke diagnosis codes |
| 762005171000119101 | Acute ischemic stroke                                                                              | STRK_COD | Stroke diagnosis codes |
| 915141931000119109 | Acute cerebrovascular accident due to embolism of basilar artery (disorder)                        | STRK_COD | Stroke diagnosis codes |

## Transient Ischaemic Attack Codes

| PCD Refset ID   | 999005291000230109                                                | TIA_COD    |                                        |
|-----------------|-------------------------------------------------------------------|------------|----------------------------------------|
| SNOMED code     | SNOMED code description                                           | Cluster ID | Cluster description                    |
| 751371000000107 | Personal history of transient ischaemic attack (situation)        | TIA_COD    | Transient ischaemic attack (TIA) codes |
| 64009001        | Basilar artery syndrome (disorder)                                | TIA_COD    | Transient ischaemic attack (TIA) codes |
| 444172003       | Recurrent transient cerebral ischemic attack (disorder)           | TIA_COD    | Transient ischaemic attack (TIA) codes |
| 426814001       | Transient cerebral ischemia due to atrial fibrillation (disorder) | TIA_COD    | Transient ischaemic attack (TIA) codes |
| 34781003        | Vertebral artery syndrome (disorder)                              | TIA_COD    | Transient ischaemic attack (TIA) codes |
| 266257000       | Transient ischemic attack (disorder)                              | TIA_COD    | Transient ischaemic attack (TIA) codes |
| 230717002       | Vertebrobasilar territory transient ischemic attack (disorder)    | TIA_COD    | Transient ischaemic attack (TIA) codes |
| 230716006       | Carotid territory transient ischemic attack (disorder)            | TIA_COD    | Transient ischaemic attack (TIA) codes |
| 195206000       | Intermittent cerebral ischemia (disorder)                         | TIA_COD    | Transient ischaemic attack (TIA) codes |
| 195205001       | Impending cerebral ischemia (disorder)                            | TIA_COD    | Transient ischaemic attack (TIA) codes |
| 195201005       | Multiple and bilateral precerebral artery syndromes (disorder)    | TIA_COD    | Transient ischaemic attack (TIA) codes |
| 195200006       | Carotid artery syndrome hemispheric (disorder)                    | TIA_COD    | Transient ischaemic attack (TIA) codes |
| 195199008       | Vertebrobasilar artery syndrome (disorder)                        | TIA_COD    | Transient ischaemic attack (TIA) codes |
| 15258001        | Subclavian steal syndrome (disorder)                              | TIA_COD    | Transient ischaemic attack (TIA) codes |

## Angina Codes

| PCD Refset ID     | 999015571000230109                                                                                         | ANGINA_COD |                        |
|-------------------|------------------------------------------------------------------------------------------------------------|------------|------------------------|
| SNOMED code       | SNOMED code description                                                                                    | Cluster ID | Cluster description    |
| 10971000087107    | Myocardial ischemia during surgery (disorder)                                                              | ANGINA_COD | Angina diagnosis codes |
| 15960061000119102 | Unstable angina co-occurrent and due to coronary arteriosclerosis (disorder)                               | ANGINA_COD | Angina diagnosis codes |
| 15960141000119102 | Angina co-occurrent and due to coronary arteriosclerosis (disorder)                                        | ANGINA_COD | Angina diagnosis codes |
| 19057007          | Status anginosus (disorder)                                                                                | ANGINA_COD | Angina diagnosis codes |
| 194823009         | Acute coronary insufficiency (disorder)                                                                    | ANGINA_COD | Angina diagnosis codes |
| 194828000         | Angina (disorder)                                                                                          | ANGINA_COD | Angina diagnosis codes |
| 21470009          | Syncope anginosa (disorder)                                                                                | ANGINA_COD | Angina diagnosis codes |
| 233819005         | Stable angina (disorder)                                                                                   | ANGINA_COD | Angina diagnosis codes |
| 233823002         | Silent myocardial ischemia (disorder)                                                                      | ANGINA_COD | Angina diagnosis codes |
| 25106000          | Impending infarction (disorder)                                                                            | ANGINA_COD | Angina diagnosis codes |
| 300995000         | Exercise-induced angina (disorder)                                                                         | ANGINA_COD | Angina diagnosis codes |
| 315025001         | Refractory angina (disorder)                                                                               | ANGINA_COD | Angina diagnosis codes |
| 371807002         | Atypical angina (disorder)                                                                                 | ANGINA_COD | Angina diagnosis codes |
| 371809004         | Recurrent angina status post coronary stent placement (disorder)                                           | ANGINA_COD | Angina diagnosis codes |
| 371810009         | Recurrent angina status post coronary artery bypass graft (disorder)                                       | ANGINA_COD | Angina diagnosis codes |
| 371812001         | Recurrent angina status post directional coronary atherectomy (disorder)                                   | ANGINA_COD | Angina diagnosis codes |
| 413439005         | Acute ischemic heart disease (disorder)                                                                    | ANGINA_COD | Angina diagnosis codes |
| 413444003         | Acute myocardial ischemia (disorder)                                                                       | ANGINA_COD | Angina diagnosis codes |
| 413844008         | Chronic myocardial ischemia (disorder)                                                                     | ANGINA_COD | Angina diagnosis codes |
| 414545008         | Ischemic heart disease (disorder)                                                                          | ANGINA_COD | Angina diagnosis codes |
| 4557003           | Preinfarction syndrome (disorder)                                                                          | ANGINA_COD | Angina diagnosis codes |
| 59021001          | Angina decubitus (disorder)                                                                                | ANGINA_COD | Angina diagnosis codes |
| 61490001          | Angina, class I (disorder)                                                                                 | ANGINA_COD | Angina diagnosis codes |
| 697976003         | Coronary microvascular dysfunction                                                                         | ANGINA_COD | Angina diagnosis codes |
| 712866001         | Resting ischemia co-occurrent and due to ischemic heart disease (disorder)                                 | ANGINA_COD | Angina diagnosis codes |
| 791000119109      | Angina due to type 2 diabetes mellitus (disorder)                                                          | ANGINA_COD | Angina diagnosis codes |
| 85284003          | Angina, class III (disorder)                                                                               | ANGINA_COD | Angina diagnosis codes |
| 87343002          | Prinzmetal angina (disorder)                                                                               | ANGINA_COD | Angina diagnosis codes |
| 89323001          | Angina, class IV (disorder)                                                                                | ANGINA_COD | Angina diagnosis codes |
| 16754991000119100 | Stable angina due to coronary arteriosclerosis (disorder)                                                  | ANGINA_COD | Angina diagnosis codes |
| 15960541000119107 | Unstable angina due to arteriosclerosis of autologous vein coronary artery bypass graft (disorder)         | ANGINA_COD | Angina diagnosis codes |
| 15960381000119109 | Angina co-occurrent and due to arteriosclerosis of coronary artery bypass graft (disorder)                 | ANGINA_COD | Angina diagnosis codes |
| 15960581000119102 | Angina co-occurrent and due to arteriosclerosis of autologous vein coronary artery bypass graft (disorder) | ANGINA_COD | Angina diagnosis codes |
| 15960661000119107 | Unstable angina co-occurrent and due to arteriosclerosis of coronary artery bypass graft (disorder)        | ANGINA_COD | Angina diagnosis codes |
| 225566008         | Ischemic chest pain (finding)                                                                              | ANGINA_COD | Angina diagnosis codes |
| 233821000         | New onset angina (disorder)                                                                                | ANGINA_COD | Angina diagnosis codes |
| 314116003         | Post infarct angina (disorder)                                                                             | ANGINA_COD | Angina diagnosis codes |
| 35928006          | Nocturnal angina (disorder)                                                                                | ANGINA_COD | Angina diagnosis codes |
| 371806006         | Progressive angina (disorder)                                                                              | ANGINA_COD | Angina diagnosis codes |
| 371808007         | Recurrent angina status post percutaneous transluminal coronary angioplasty (disorder)                     | ANGINA_COD | Angina diagnosis codes |
| 371811008         | Recurrent angina status post rotational atherectomy (disorder)                                             | ANGINA_COD | Angina diagnosis codes |
| 394659003         | Acute coronary syndrome (disorder)                                                                         | ANGINA_COD | Angina diagnosis codes |
| 41334000          | Angina, class II (disorder)                                                                                | ANGINA_COD | Angina diagnosis codes |
| 413838009         | Chronic ischemic heart disease (disorder)                                                                  | ANGINA_COD | Angina diagnosis codes |
| 414795007         | Myocardial ischemia (disorder)                                                                             | ANGINA_COD | Angina diagnosis codes |
| 429559004         | Typical angina (disorder)                                                                                  | ANGINA_COD | Angina diagnosis codes |
| 46109009          | Subendocardial ischemia (disorder)                                                                         | ANGINA_COD | Angina diagnosis codes |
| 703214003         | Silent coronary vasospastic disease (disorder)                                                             | ANGINA_COD | Angina diagnosis codes |
| 713405002         | Subacute ischemic heart disease (disorder)                                                                 | ANGINA_COD | Angina diagnosis codes |
| 792842004         | Coronary arteriosclerosis in artery of transplanted heart (disorder)                                       | ANGINA_COD | Angina diagnosis codes |
| 15960341000119104 | Unstable angina due to arteriosclerosis of coronary artery bypass graft of transplanted heart (disorder)   | ANGINA_COD | Angina diagnosis codes |
| 15960461000119105 | Unstable angina due to arteriosclerosis of autologous arterial coronary artery bypass graft (disorder)     | ANGINA_COD | Angina diagnosis codes |

## Myocardial Infarction codes

| PCD Refset ID     | 999015771000230104                                                                                                       | MI_COD     |                                            |
|-------------------|--------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------|
| SNOMED code       | SNOMED code description                                                                                                  | Cluster ID | Cluster description                        |
| 1077002           | Septal infarction by electrocardiogram (finding)                                                                         | MI_COD     | Myocardial infarction (MI) diagnosis codes |
| 1089441000000103  | Postoperative transmural myocardial infarction (disorder)                                                                | MI_COD     | Myocardial infarction (MI) diagnosis codes |
| 1089451000000100  | Acute nontransmural myocardial infarction (disorder)                                                                     | MI_COD     | Myocardial infarction (MI) diagnosis codes |
| 1089471000000109  | Acute transmural myocardial infarction (disorder)                                                                        | MI_COD     | Myocardial infarction (MI) diagnosis codes |
| 12238151000119107 | Acute ST segment elevation myocardial infarction of inferoposterior wall (disorder)                                      | MI_COD     | Myocardial infarction (MI) diagnosis codes |
| 129574000         | Postoperative myocardial infarction (disorder)                                                                           | MI_COD     | Myocardial infarction (MI) diagnosis codes |
| 15712961000119108 | Acute ST segment elevation myocardial infarction of anteroseptal wall (disorder)                                         | MI_COD     | Myocardial infarction (MI) diagnosis codes |
| 15960981000119105 | Mural thrombus of left ventricle following acute myocardial infarction (disorder)                                        | MI_COD     | Myocardial infarction (MI) diagnosis codes |
| 15990001          | Acute myocardial infarction of posterolateral wall (disorder)                                                            | MI_COD     | Myocardial infarction (MI) diagnosis codes |
| 194856005         | Subsequent myocardial infarction (disorder)                                                                              | MI_COD     | Myocardial infarction (MI) diagnosis codes |
| 194862000         | Hemopericardium due to and following acute myocardial infarction (disorder)                                              | MI_COD     | Myocardial infarction (MI) diagnosis codes |
| 194863005         | Atrial septal defect due to and following acute myocardial infarction (disorder)                                         | MI_COD     | Myocardial infarction (MI) diagnosis codes |
| 194865003         | Rupture of cardiac wall without hemopericardium as current complication following acute myocardial infarction (disorder) | MI_COD     | Myocardial infarction (MI) diagnosis codes |
| 194867006         | Rupture of papillary muscle as current complication following acute myocardial infarction (disorder)                     | MI_COD     | Myocardial infarction (MI) diagnosis codes |
| 194868001         | Thrombosis of atrium, auricular appendage, and ventricle due to and following acute myocardial infarction (disorder)     | MI_COD     | Myocardial infarction (MI) diagnosis codes |
| 22298006          | MI - myocardial infarction                                                                                               | MI_COD     | Myocardial infarction (MI) diagnosis codes |
| 233825009         | Acute Q wave infarction - anteroseptal (disorder)                                                                        | MI_COD     | Myocardial infarction (MI) diagnosis codes |
| 233826005         | Acute non-Q wave infarction - anteroseptal (disorder)                                                                    | MI_COD     | Myocardial infarction (MI) diagnosis codes |
| 233832000         | Acute non-Q wave infarction - inferolateral (disorder)                                                                   | MI_COD     | Myocardial infarction (MI) diagnosis codes |
| 233833005         | Acute Q wave infarction - lateral (disorder)                                                                             | MI_COD     | Myocardial infarction (MI) diagnosis codes |
| 233838001         | Acute posterior myocardial infarction (disorder)                                                                         | MI_COD     | Myocardial infarction (MI) diagnosis codes |
| 233843008         | Silent myocardial infarction (disorder)                                                                                  | MI_COD     | Myocardial infarction (MI) diagnosis codes |
| 233846000         | Post-infarction ventricular septal defect (disorder)                                                                     | MI_COD     | Myocardial infarction (MI) diagnosis codes |
| 233847009         | Cardiac rupture due to and following acute myocardial infarction (disorder)                                              | MI_COD     | Myocardial infarction (MI) diagnosis codes |
| 311792005         | Postoperative transmural myocardial infarction of anterior wall (disorder)                                               | MI_COD     | Myocardial infarction (MI) diagnosis codes |

|                   |                                                                                                                                                      |        |                                            |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------|
| 311793000         | Postoperative transmural myocardial infarction of inferior wall (disorder)                                                                           | MI COD | Myocardial infarction (MI) diagnosis codes |
| 314207007         | Non-Q wave myocardial infarction (disorder)                                                                                                          | MI COD | Myocardial infarction (MI) diagnosis codes |
| 315287002         | Diabetes mellitus insulin-glucose infusion in acute myocardial infarction (procedure)                                                                | MI COD | Myocardial infarction (MI) diagnosis codes |
| 371068009         | Myocardial infarction with complication (disorder)                                                                                                   | MI COD | Myocardial infarction (MI) diagnosis codes |
| 394710008         | First myocardial infarction (disorder)                                                                                                               | MI COD | Myocardial infarction (MI) diagnosis codes |
| 401303003         | Acute ST segment elevation myocardial infarction (disorder)                                                                                          | MI COD | Myocardial infarction (MI) diagnosis codes |
| 413444003         | Acute myocardial ischemia (disorder)                                                                                                                 | MI COD | Myocardial infarction (MI) diagnosis codes |
| 418044006         | Myocardial infarction in recovery phase (disorder)                                                                                                   | MI COD | Myocardial infarction (MI) diagnosis codes |
| 42531007          | Microinfarct of heart (disorder)                                                                                                                     | MI COD | Myocardial infarction (MI) diagnosis codes |
| 428196007         | Mixed myocardial ischemia and infarction (disorder)                                                                                                  | MI COD | Myocardial infarction (MI) diagnosis codes |
| 58612006          | Acute myocardial infarction of lateral wall (disorder)                                                                                               | MI COD | Myocardial infarction (MI) diagnosis codes |
| 62695002          | Acute anteroapical myocardial infarction (disorder)                                                                                                  | MI COD | Myocardial infarction (MI) diagnosis codes |
| 64627002          | Acute myocardial infarction of high lateral wall (disorder)                                                                                          | MI COD | Myocardial infarction (MI) diagnosis codes |
| 66189004          | Postmyocardial infarction syndrome (disorder)                                                                                                        | MI COD | Myocardial infarction (MI) diagnosis codes |
| 703164000         | Acute ST segment elevation myocardial infarction of anterior wall (disorder)                                                                         | MI COD | Myocardial infarction (MI) diagnosis codes |
| 703211006         | Subsequent ST segment elevation myocardial infarction (disorder)                                                                                     | MI COD | Myocardial infarction (MI) diagnosis codes |
| 703212004         | Acute myocardial infarction during procedure (disorder)                                                                                              | MI COD | Myocardial infarction (MI) diagnosis codes |
| 703213009         | Acute ST segment elevation myocardial infarction of inferior wall (disorder)                                                                         | MI COD | Myocardial infarction (MI) diagnosis codes |
| 703252002         | Acute myocardial infarction of anterior wall involving right ventricle (disorder)                                                                    | MI COD | Myocardial infarction (MI) diagnosis codes |
| 703253007         | Acute ST segment elevation myocardial infarction of inferior wall involving right ventricle (disorder)                                               | MI COD | Myocardial infarction (MI) diagnosis codes |
| 703326006         | Mitral valve regurgitation due to and following acute myocardial infarction (disorder)                                                               | MI COD | Myocardial infarction (MI) diagnosis codes |
| 703330009         | Mitral valve regurgitation due to acute myocardial infarction with papillary muscle and chordal rupture (disorder)                                   | MI COD | Myocardial infarction (MI) diagnosis codes |
| 70998009          | Acute myocardial infarction of basal inferior segment of left ventricle (disorder)                                                                   | MI COD | Myocardial infarction (MI) diagnosis codes |
| 71023004          | Pericarditis due to acute myocardial infarction (disorder)                                                                                           | MI COD | Myocardial infarction (MI) diagnosis codes |
| 76593002          | Acute myocardial infarction of inferoposterior wall (disorder)                                                                                       | MI COD | Myocardial infarction (MI) diagnosis codes |
| 836295007         | Acute myocardial infarction of inferolateral wall with posterior extension (disorder)                                                                | MI COD | Myocardial infarction (MI) diagnosis codes |
| 840316004         | Acute ST segment elevation myocardial infarction due to occlusion of distal portion of anterior descending branch of left coronary artery (disorder) | MI COD | Myocardial infarction (MI) diagnosis codes |
| 868217004         | Acute ST segment elevation myocardial infarction due to occlusion of distal portion of right coronary artery (disorder)                              | MI COD | Myocardial infarction (MI) diagnosis codes |
| 868220007         | Acute ST segment elevation myocardial infarction due to occlusion of mid portion of right coronary artery (disorder)                                 | MI COD | Myocardial infarction (MI) diagnosis codes |
| 10273003          | Acute infarction of papillary muscle (disorder)                                                                                                      | MI COD | Myocardial infarction (MI) diagnosis codes |
| 1089431000000107  | Postoperative nontransmural myocardial infarction (disorder)                                                                                         | MI COD | Myocardial infarction (MI) diagnosis codes |
| 12238111000119106 | Acute ST segment elevation myocardial infarction of inferolateral wall (disorder)                                                                    | MI COD | Myocardial infarction (MI) diagnosis codes |
| 15712841000119100 | Acute ST segment elevation myocardial infarction of posterolateral wall (disorder)                                                                   | MI COD | Myocardial infarction (MI) diagnosis codes |
| 15712881000119105 | Acute ST segment elevation myocardial infarction of anterolateral wall (disorder)                                                                    | MI COD | Myocardial infarction (MI) diagnosis codes |
| 15712921000119103 | Acute ST segment elevation myocardial infarction of lateral wall (disorder)                                                                          | MI COD | Myocardial infarction (MI) diagnosis codes |
| 15713041000119103 | Acute ST segment elevation myocardial infarction of posterior wall (disorder)                                                                        | MI COD | Myocardial infarction (MI) diagnosis codes |
| 15713081000119108 | Acute ST segment elevation myocardial infarction due to left coronary artery occlusion (disorder)                                                    | MI COD | Myocardial infarction (MI) diagnosis codes |
| 15713121000119105 | Acute ST segment elevation myocardial infarction due to right coronary artery occlusion (disorder)                                                   | MI COD | Myocardial infarction (MI) diagnosis codes |
| 15713161000119100 | Acute ST segment elevation myocardial infarction of septum (disorder)                                                                                | MI COD | Myocardial infarction (MI) diagnosis codes |
| 15713201000119105 | Acute ST segment elevation myocardial infarction of posterobasal wall (disorder)                                                                     | MI COD | Myocardial infarction (MI) diagnosis codes |
| 17531000119105    | Acute myocardial infarction due to left coronary artery occlusion (disorder)                                                                         | MI COD | Myocardial infarction (MI) diagnosis codes |
| 194802003         | True posterior myocardial infarction (disorder)                                                                                                      | MI COD | Myocardial infarction (MI) diagnosis codes |
| 194809007         | Acute atrial infarction (disorder)                                                                                                                   | MI COD | Myocardial infarction (MI) diagnosis codes |
| 194857001         | Subsequent myocardial infarction of anterior wall (disorder)                                                                                         | MI COD | Myocardial infarction (MI) diagnosis codes |
| 194858006         | Subsequent myocardial infarction of inferior wall (disorder)                                                                                         | MI COD | Myocardial infarction (MI) diagnosis codes |
| 194866002         | Rupture of chordae tendinae due to and following acute myocardial infarction (disorder)                                                              | MI COD | Myocardial infarction (MI) diagnosis codes |
| 23311000119105    | Acute myocardial infarction due to right coronary artery occlusion (disorder)                                                                        | MI COD | Myocardial infarction (MI) diagnosis codes |
| 233827001         | Acute Q wave infarction - anterolateral (disorder)                                                                                                   | MI COD | Myocardial infarction (MI) diagnosis codes |
| 233828006         | Acute non-Q wave infarction - anterolateral (disorder)                                                                                               | MI COD | Myocardial infarction (MI) diagnosis codes |
| 233829003         | Acute Q wave infarction - inferior (disorder)                                                                                                        | MI COD | Myocardial infarction (MI) diagnosis codes |
| 233830008         | Acute non-Q wave infarction - inferior (disorder)                                                                                                    | MI COD | Myocardial infarction (MI) diagnosis codes |
| 233831007         | Acute Q wave infarction - inferolateral (disorder)                                                                                                   | MI COD | Myocardial infarction (MI) diagnosis codes |
| 233834004         | Acute non-Q wave infarction - lateral (disorder)                                                                                                     | MI COD | Myocardial infarction (MI) diagnosis codes |
| 233835003         | Acute widespread myocardial infarction (disorder)                                                                                                    | MI COD | Myocardial infarction (MI) diagnosis codes |
| 233836002         | Acute Q wave infarction - widespread (disorder)                                                                                                      | MI COD | Myocardial infarction (MI) diagnosis codes |
| 233837006         | Acute non-Q wave infarction - widespread (disorder)                                                                                                  | MI COD | Myocardial infarction (MI) diagnosis codes |
| 282006            | Acute myocardial infarction of basal-lateral wall (disorder)                                                                                         | MI COD | Myocardial infarction (MI) diagnosis codes |
| 285981000119103   | Acute ST segment elevation myocardial infarction involving left anterior descending coronary artery (disorder)                                       | MI COD | Myocardial infarction (MI) diagnosis codes |
| 285991000119100   | Acute ST segment elevation myocardial infarction involving left main coronary artery (disorder)                                                      | MI COD | Myocardial infarction (MI) diagnosis codes |
| 30277009          | Rupture of ventricle due to acute myocardial infarction (disorder)                                                                                   | MI COD | Myocardial infarction (MI) diagnosis codes |
| 304914007         | Acute Q wave myocardial infarction (disorder)                                                                                                        | MI COD | Myocardial infarction (MI) diagnosis codes |
| 307140009         | Acute non-Q wave infarction (disorder)                                                                                                               | MI COD | Myocardial infarction (MI) diagnosis codes |
| 311796008         | Postoperative subendocardial myocardial infarction (disorder)                                                                                        | MI COD | Myocardial infarction (MI) diagnosis codes |
| 394659003         | Acute coronary syndrome (disorder)                                                                                                                   | MI COD | Myocardial infarction (MI) diagnosis codes |
| 401314000         | Acute non-ST segment elevation myocardial infarction (disorder)                                                                                      | MI COD | Myocardial infarction (MI) diagnosis codes |
| 41466009          | Myocardial imaging for infarct with ejection fraction, first pass technique (procedure)                                                              | MI COD | Myocardial infarction (MI) diagnosis codes |
| 429391004         | New myocardial infarction compared to prior study (finding)                                                                                          | MI COD | Myocardial infarction (MI) diagnosis codes |
| 52035003          | Acute anteroapical myocardial infarction (disorder)                                                                                                  | MI COD | Myocardial infarction (MI) diagnosis codes |
| 54329005          | Acute myocardial infarction of anterior wall (disorder)                                                                                              | MI COD | Myocardial infarction (MI) diagnosis codes |
| 57054005          | Acute myocardial infarction (disorder)                                                                                                               | MI COD | Myocardial infarction (MI) diagnosis codes |
| 59063002          | Acute myocardial infarction of apical-lateral wall (disorder)                                                                                        | MI COD | Myocardial infarction (MI) diagnosis codes |
| 63670007          | Myocardial imaging for infarct, planar technique (procedure)                                                                                         | MI COD | Myocardial infarction (MI) diagnosis codes |
| 65547006          | Acute myocardial infarction of inferolateral wall (disorder)                                                                                         | MI COD | Myocardial infarction (MI) diagnosis codes |
| 70211005          | Acute myocardial infarction of anterolateral wall (disorder)                                                                                         | MI COD | Myocardial infarction (MI) diagnosis codes |
| 703165004         | Acute ST segment elevation myocardial infarction of anterior wall involving right ventricle (disorder)                                               | MI COD | Myocardial infarction (MI) diagnosis codes |
| 703209002         | Subsequent ST segment elevation myocardial infarction of inferior wall (disorder)                                                                    | MI COD | Myocardial infarction (MI) diagnosis codes |
| 703210007         | Subsequent ST segment elevation myocardial infarction of anterior wall (disorder)                                                                    | MI COD | Myocardial infarction (MI) diagnosis codes |
| 703251009         | Acute myocardial infarction of inferior wall involving right ventricle (disorder)                                                                    | MI COD | Myocardial infarction (MI) diagnosis codes |
| 703328007         | Mitral valve regurgitation due to acute myocardial infarction without papillary muscle and chordal rupture (disorder)                                | MI COD | Myocardial infarction (MI) diagnosis codes |
| 703360004         | Subsequent non-ST segment elevation myocardial infarction (disorder)                                                                                 | MI COD | Myocardial infarction (MI) diagnosis codes |
| 70422006          | Acute subendocardial infarction (disorder)                                                                                                           | MI COD | Myocardial infarction (MI) diagnosis codes |
| 736978009         | Mural thrombus of right ventricle following acute myocardial infarction (disorder)                                                                   | MI COD | Myocardial infarction (MI) diagnosis codes |

|                    |                                                                                                                                                        |        |                                            |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------|
| 73795002           | Acute myocardial infarction of inferior wall (disorder)                                                                                                | MI COD | Myocardial infarction (MI) diagnosis codes |
| 79009004           | Acute myocardial infarction of septum (disorder)                                                                                                       | MI COD | Myocardial infarction (MI) diagnosis codes |
| 16837681000119104  | Myocardial infarction due to demand ischemia                                                                                                           | MI COD | Myocardial infarction (MI) diagnosis codes |
| 836293000          | Acute myocardial infarction of right ventricle (disorder)                                                                                              | MI COD | Myocardial infarction (MI) diagnosis codes |
| 836294006          | Acute myocardial infarction of apex of heart (disorder)                                                                                                | MI COD | Myocardial infarction (MI) diagnosis codes |
| 840309000          | Acute ST segment elevation myocardial infarction due to occlusion of proximal portion of anterior descending branch of left coronary artery (disorder) | MI COD | Myocardial infarction (MI) diagnosis codes |
| 840312002          | Acute ST segment elevation myocardial infarction due to occlusion of mid portion of anterior descending branch of left coronary artery (disorder)      | MI COD | Myocardial infarction (MI) diagnosis codes |
| 840609007          | Acute ST segment elevation myocardial infarction due to occlusion of anterior descending branch of left coronary artery (disorder)                     | MI COD | Myocardial infarction (MI) diagnosis codes |
| 840680009          | Acute ST segment elevation myocardial infarction due to occlusion of septal branch of anterior descending branch of left coronary artery (disorder)    | MI COD | Myocardial infarction (MI) diagnosis codes |
| 846668006          | Acute ST segment elevation myocardial infarction due to occlusion of diagonal branch of anterior descending branch of left coronary artery (disorder)  | MI COD | Myocardial infarction (MI) diagnosis codes |
| 846683001          | Acute ST segment elevation myocardial infarction due to occlusion of intermediate artery (disorder)                                                    | MI COD | Myocardial infarction (MI) diagnosis codes |
| 868214006          | Acute ST segment elevation myocardial infarction due to occlusion of proximal portion of right coronary artery (disorder)                              | MI COD | Myocardial infarction (MI) diagnosis codes |
| 868224003          | Acute ST segment elevation myocardial infarction due to occlusion of marginal branch of right coronary artery (disorder)                               | MI COD | Myocardial infarction (MI) diagnosis codes |
| 868225002          | Acute ST segment elevation myocardial infarction due to occlusion of posterior descending branch of right coronary artery (disorder)                   | MI COD | Myocardial infarction (MI) diagnosis codes |
| 868226001          | Acute ST segment elevation myocardial infarction due to occlusion of posterior lateral branch of right coronary artery (disorder)                      | MI COD | Myocardial infarction (MI) diagnosis codes |
| 726499301000119105 | Myocardial infarction due to atherothrombotic coronary artery disease (disorder)                                                                       | MI COD | Myocardial infarction (MI) diagnosis codes |
| 896689003          | Acute myocardial infarction due to occlusion of circumflex branch of left coronary artery (disorder)                                                   | MI COD | Myocardial infarction (MI) diagnosis codes |
| 896691006          | Acute ST segment elevation myocardial infarction due to occlusion of circumflex branch of left coronary artery (disorder)                              | MI COD | Myocardial infarction (MI) diagnosis codes |
| 896696001          | Acute ST segment elevation myocardial infarction of apex of heart (disorder)                                                                           | MI COD | Myocardial infarction (MI) diagnosis codes |
| 387785661000119105 | History of myocardial infarction due to atherothrombotic coronary artery disease (situation)                                                           | MI COD | Myocardial infarction (MI) diagnosis codes |
| 879955009          | Myocardial infarction with non-obstructive coronary artery (disorder)                                                                                  | MI COD | Myocardial infarction (MI) diagnosis codes |
| 896697005          | Acute ST segment elevation myocardial infarction of right ventricle (disorder)                                                                         | MI COD | Myocardial infarction (MI) diagnosis codes |

## Other Myocardial Infarction codes

| SNOMED code | SNOMED code description                                                                                                                       |  |  |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| 1755008     | Old myocardial infarction (disorder)                                                                                                          |  |  |
| 233839009   | Old anterior myocardial infarction (disorder)                                                                                                 |  |  |
| 233840006   | Old inferior myocardial infarction (disorder)                                                                                                 |  |  |
| 233841005   | Old lateral myocardial infarction (disorder)                                                                                                  |  |  |
| 233842003   | Old posterior myocardial infarction (disorder)                                                                                                |  |  |
| 32574007    | Past myocardial infarction diagnosed on electrocardiogram AND/OR other special investigation, but currently presenting no symptoms (disorder) |  |  |

## Narrowed Peripheral Arteries Codes

| PCD Refset ID     | 999005931000230101                                                                                                | PAD_COD    |                                                    |
|-------------------|-------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------|
| SNOMED code       | SNOMED code description                                                                                           | Cluster ID | Cluster description                                |
| 233961000         | Lower limb ischemia (disorder)                                                                                    | PAD COD    | Peripheral arterial disease (PAD) diagnostic codes |
| 275520000         | Claudication (finding)                                                                                            | PAD COD    | Peripheral arterial disease (PAD) diagnostic codes |
| 400047006         | Peripheral vascular disease (disorder)                                                                            | PAD COD    | Peripheral arterial disease (PAD) diagnostic codes |
| 63491006          | Intermittent claudication (finding)                                                                               | PAD COD    | Peripheral arterial disease (PAD) diagnostic codes |
| 127014009         | Peripheral angiopathy due to diabetes mellitus (disorder)                                                         | PAD COD    | Peripheral arterial disease (PAD) diagnostic codes |
| 15649901000119104 | Gangrene of right lower limb due to atherosclerosis (disorder)                                                    | PAD COD    | Peripheral arterial disease (PAD) diagnostic codes |
| 15649941000119102 | Gangrene of bilateral lower limbs co-occurrent and due to atherosclerosis (disorder)                              | PAD COD    | Peripheral arterial disease (PAD) diagnostic codes |
| 15649991000119105 | Gangrene of left lower limb due to atherosclerosis (disorder)                                                     | PAD COD    | Peripheral arterial disease (PAD) diagnostic codes |
| 233962007         | Critical lower limb ischemia (disorder)                                                                           | PAD COD    | Peripheral arterial disease (PAD) diagnostic codes |
| 307406004         | Trash foot (disorder)                                                                                             | PAD COD    | Peripheral arterial disease (PAD) diagnostic codes |
| 312822006         | Critical ischemia of foot (disorder)                                                                              | PAD COD    | Peripheral arterial disease (PAD) diagnostic codes |
| 314902007         | Peripheral angiopathy due to type 2 diabetes mellitus (disorder)                                                  | PAD COD    | Peripheral arterial disease (PAD) diagnostic codes |
| 34881000119105    | Peripheral vascular disease associated with another disorder (disorder)                                           | PAD COD    | Peripheral arterial disease (PAD) diagnostic codes |
| 12237111000119107 | Pain at rest of left lower limb co-occurrent and due to atherosclerosis (disorder)                                | PAD COD    | Peripheral arterial disease (PAD) diagnostic codes |
| 792846001         | Ulcer of heel due to atherosclerosis of artery of lower limb (disorder)                                           | PAD COD    | Peripheral arterial disease (PAD) diagnostic codes |
| 792850008         | Ulcer of ankle due to atherosclerosis of artery of lower limb (disorder)                                          | PAD COD    | Peripheral arterial disease (PAD) diagnostic codes |
| 233958001         | Peripheral ischemia (disorder)                                                                                    | PAD COD    | Peripheral arterial disease (PAD) diagnostic codes |
| 399957001         | Peripheral arterial occlusive disease (disorder)                                                                  | PAD COD    | Peripheral arterial disease (PAD) diagnostic codes |
| 836711000000108   | Ischaemic lower limb pain at rest (finding)                                                                       | PAD COD    | Peripheral arterial disease (PAD) diagnostic codes |
| 300917007         | Ischemia of feet (disorder)                                                                                       | PAD COD    | Peripheral arterial disease (PAD) diagnostic codes |
| 301755001         | Ischemic foot (disorder)                                                                                          | PAD COD    | Peripheral arterial disease (PAD) diagnostic codes |
| 307408003         | Ischemic toe (disorder)                                                                                           | PAD COD    | Peripheral arterial disease (PAD) diagnostic codes |
| 31211000119101    | Peripheral angiopathy due to type 1 diabetes mellitus (disorder)                                                  | PAD COD    | Peripheral arterial disease (PAD) diagnostic codes |
| 12236991000119103 | Pain at rest of bilateral lower limbs co-occurrent and due to atherosclerosis (disorder)                          | PAD COD    | Peripheral arterial disease (PAD) diagnostic codes |
| 12237231000119107 | Pain at rest of right lower limb co-occurrent and due to atherosclerosis (disorder)                               | PAD COD    | Peripheral arterial disease (PAD) diagnostic codes |
| 723870003         | Acute occlusion of artery of lower limb co-occurrent and due to thromboembolus (disorder)                         | PAD COD    | Peripheral arterial disease (PAD) diagnostic codes |
| 792844003         | Limb pain at rest due to atherosclerosis of artery of lower limb (disorder)                                       | PAD COD    | Peripheral arterial disease (PAD) diagnostic codes |
| 792855003         | Ulcer of calf due to atherosclerosis of artery of lower limb (disorder)                                           | PAD COD    | Peripheral arterial disease (PAD) diagnostic codes |
| 840580004         | Peripheral arterial disease (disorder)                                                                            | PAD COD    | Peripheral arterial disease (PAD) diagnostic codes |
| 16013431000119104 | Intermittent claudication of bilateral lower limbs due to atherosclerosis of nonbiological bypass graft (finding) | PAD COD    | Peripheral arterial disease (PAD) diagnostic codes |

## Other Narrowed Peripheral Arteries codes

| SNOMED code       | SNOMED code description                                                            |  |  |
|-------------------|------------------------------------------------------------------------------------|--|--|
| 8001000119106     | Atherosclerosis of aortoiliac bypass graft (disorder)                              |  |  |
| 51274000          | Atherosclerosis of arteries of the extremities (disorder)                          |  |  |
| 15648691000119108 | Atherosclerosis of artery of left upper limb (disorder)                            |  |  |
| 724440007         | Atherosclerosis of artery of lower limb (disorder)                                 |  |  |
| 709585003         | Atherosclerosis of nonautologous biological bypass graft of lower limb (disorder)  |  |  |
| 442701004         | Atherosclerosis of nonautologous biological bypass graft of limb (disorder)        |  |  |
| 15648601000119102 | Atherosclerosis of artery of right upper limb (disorder)                           |  |  |
| 442439008         | Atherosclerosis of bypass graft of limb (disorder)                                 |  |  |
| 709587006         | Atherosclerosis of autologous bypass graft of lower limb (disorder)                |  |  |
| 442693003         | Atherosclerosis of autologous vein bypass graft of limb (disorder)                 |  |  |
| 709584004         | Atherosclerosis of bypass graft of lower limb (disorder)                           |  |  |
| 442735001         | Atherosclerosis of nonautologous bypass graft of limb (disorder)                   |  |  |
| 16018911000119107 | Atherosclerosis of non-biological bypass graft of bilateral lower limbs (disorder) |  |  |
| 16019471000119104 | Atherosclerosis of left iliac artery (disorder)                                    |  |  |
| 45281005          | Atherosclerosis of renal artery (disorder)                                         |  |  |
| 15648821000119105 | Atherosclerosis of left renal artery (disorder)                                    |  |  |
| 15648731000119101 | Atherosclerosis of right renal artery (disorder)                                   |  |  |
| 15648771000119103 | Atherosclerosis of bilateral renal arteries (disorder)                             |  |  |
| 16019511000119108 | Atherosclerosis of right iliac artery (disorder)                                   |  |  |
| 16018831000119106 | Atherosclerosis of bilateral iliac arteries (disorder)                             |  |  |
| 16899261000119106 | Atherosclerosis of superior mesenteric artery (disorder)                           |  |  |
| 153911000119104   | Peripheral arterial insufficiency (disorder)                                       |  |  |
| 243286001         | Acute mesenteric arterial occlusion (disorder)                                     |  |  |
| 235842000         | Occlusive mesenteric ischemia (disorder)                                           |  |  |
| 698816006         | Chronic occlusion of artery of extremity (disorder)                                |  |  |
| 314187004         | Iliac artery occlusion (disorder)                                                  |  |  |
| 312825008         | Common iliac artery occlusion (disorder)                                           |  |  |
| 312826009         | External iliac artery occlusion (disorder)                                         |  |  |
| 10749961000119104 | Occlusion of aortoiliac artery (disorder)                                          |  |  |
| 312496009         | Iliac artery stenosis (disorder)                                                   |  |  |
| 233967001         | Common iliac artery stenosis (disorder)                                            |  |  |
| 233968006         | External iliac artery stenosis (disorder)                                          |  |  |
| 405545007         | Mesenteric artery stenosis (disorder)                                              |  |  |
| 724441006         | Non-atherosclerotic chronic arterial occlusive disease (disorder)                  |  |  |
| 735572005         | Acute occlusion of artery of upper limb (disorder)                                 |  |  |
| 431706008         | Occlusion of artery of upper extremity (disorder)                                  |  |  |
| 842061000000108   | Occlusion of brachial artery (disorder)                                            |  |  |
| 16005471000119100 | Occlusion of distal artery of left upper limb (disorder)                           |  |  |

|                   |                                                                             |  |  |
|-------------------|-----------------------------------------------------------------------------|--|--|
| 16005391000119108 | Occlusion of distal artery of right upper limb (disorder)                   |  |  |
| 842041000000107   | Occlusion of radial artery (disorder)                                       |  |  |
| 842081000000104   | Occlusion of ulnar artery (disorder)                                        |  |  |
| 405557003         | Occlusion of lower limb artery (disorder)                                   |  |  |
| 735574006         | Acute occlusion of artery of lower limb (disorder)                          |  |  |
| 314188009         | Femoral artery occlusion (disorder)                                         |  |  |
| 312828005         | Common femoral artery occlusion (disorder)                                  |  |  |
| 306849003         | Occlusion of femorofemoral crossover bypass graft (disorder)                |  |  |
| 16014671000119100 | Occlusion of left femoral artery (disorder)                                 |  |  |
| 16014871000119101 | Occlusion of right femoral artery (disorder)                                |  |  |
| 312827000         | Superficial femoral artery occlusion (disorder)                             |  |  |
| 302300004         | Femoral popliteal occlusion (disorder)                                      |  |  |
| 306848006         | Occlusion of femoropopliteal bypass graft (disorder)                        |  |  |
| 842721000000102   | Occlusion of anterior tibial artery (disorder)                              |  |  |
| 842141000000108   | Occlusion of dorsalis pedis artery (disorder)                               |  |  |
| 842741000000109   | Occlusion of posterior tibial artery (disorder)                             |  |  |
| 314189001         | Popliteal artery occlusion (disorder)                                       |  |  |
| 16014791000119105 | Occlusion of left popliteal artery (disorder)                               |  |  |
| 16014711000119101 | Occlusion of right popliteal artery (disorder)                              |  |  |
| 427592000         | Occlusion of superior mesenteric artery (disorder)                          |  |  |
| 286959000         | Peripheral arterial embolism (disorder)                                     |  |  |
| 80383008          | Embolism of iliac artery (disorder)                                         |  |  |
| 312378004         | Lower limb arterial embolus (disorder)                                      |  |  |
| 16012711000119107 | Atheroembolism of bilateral lower limbs (disorder)                          |  |  |
| 425527003         | Atheromatous embolus of lower limb (disorder)                               |  |  |
| 16012511000119101 | Embolism of artery of left lower limb (disorder)                            |  |  |
| 16012551000119100 | Embolism of artery of right lower limb (disorder)                           |  |  |
| 233973000         | Femoral artery embolus (disorder)                                           |  |  |
| 297141005         | Popliteal artery embolus (disorder)                                         |  |  |
| 16012591000119105 | Embolism of left popliteal artery (disorder)                                |  |  |
| 16012671000119108 | Embolism of right popliteal artery (disorder)                               |  |  |
| 312380005         | Post-radiological embolism of lower limb artery (disorder)                  |  |  |
| 276500007         | Mesenteric embolus (disorder)                                               |  |  |
| 297140006         | Inferior mesenteric artery embolus (disorder)                               |  |  |
| 196999001         | Superior mesenteric artery embolus (disorder)                               |  |  |
| 95580006          | Renal artery embolism (disorder)                                            |  |  |
| 51677000          | Atheroembolism of renal arteries (disorder)                                 |  |  |
| 116291000119103   | Occlusion of renal artery due to embolism (disorder)                        |  |  |
| 297135003         | Subclavian artery embolus (disorder)                                        |  |  |
| 195339004         | Embolism and thrombosis of the subclavian artery (disorder)                 |  |  |
| 312375001         | Upper limb arterial embolus (disorder)                                      |  |  |
| 427567003         | Atheromatous embolus of upper limb (disorder)                               |  |  |
| 297136002         | Axillary artery embolus (disorder)                                          |  |  |
| 233974006         | Brachial artery embolus (disorder)                                          |  |  |
| 16009431000119100 | Embolism of artery of left upper limb (disorder)                            |  |  |
| 16009271000119101 | Embolism of artery of right upper limb (disorder)                           |  |  |
| 312377009         | Post-radiological embolism of upper limb artery (disorder)                  |  |  |
| 236488005         | Renal artery occlusion (disorder)                                           |  |  |
| 306852006         | Occlusion of renal artery bypass graft (disorder)                           |  |  |
| 302233006         | Renal artery stenosis (disorder)                                            |  |  |
| 289923007         | Acquired renal artery stenosis (disorder)                                   |  |  |
| 302910002         | Atherosclerotic renal artery stenosis (disorder)                            |  |  |
| 425414000         | Bilateral renal artery stenosis (disorder)                                  |  |  |
| 271432005         | Congenital renal artery stenosis (disorder)                                 |  |  |
| 713825007         | Renal artery stenosis of transplanted kidney (disorder)                     |  |  |
| 282664001         | Renal artery stenosis of unknown cause (disorder)                           |  |  |
| 405556007         | Stenosis of lower limb artery (disorder)                                    |  |  |
| 312829002         | Common femoral artery stenosis (disorder)                                   |  |  |
| 16011391000119108 | Stenosis of artery of left lower limb (disorder)                            |  |  |
| 16011431000119103 | Stenosis of artery of right lower limb (disorder)                           |  |  |
| 233969003         | Superficial femoral artery stenosis (disorder)                              |  |  |
| 300921000         | Subclavian artery stenosis (disorder)                                       |  |  |
| 93388003          | Congenital stenosis of subclavian artery (disorder)                         |  |  |
| 18000001000004101 | Stenosis of left subclavian artery (disorder)                               |  |  |
| 15967341000119100 | Stenosis of right subclavian artery (disorder)                              |  |  |
| 15967301000119102 | Stenosis of bilateral subclavian arteries (disorder)                        |  |  |
| 33591000          | Thrombosis of arteries of the extremities (disorder)                        |  |  |
| 300919005         | Digital arterial thrombosis (disorder)                                      |  |  |
| 195318006         | Embolism and thrombosis of an arm or leg artery (disorder)                  |  |  |
| 90958004          | Thrombosis of arteries of lower extremity (disorder)                        |  |  |
| 723872006         | Acute occlusion of artery of lower limb due to thrombosis (disorder)        |  |  |
| 297162006         | Crural artery thrombosis (disorder)                                         |  |  |
| 195325004         | Embolism and thrombosis of the anterior tibial artery (disorder)            |  |  |
| 195326003         | Embolism and thrombosis of the dorsalis pedis artery (disorder)             |  |  |
| 195327007         | Embolism and thrombosis of the posterior tibial artery (disorder)           |  |  |
| 52156004          | Femoral artery thrombosis (disorder)                                        |  |  |
| 297149007         | Common femoral artery thrombosis (disorder)                                 |  |  |
| 195323006         | Embolism and thrombosis of the femoral artery (disorder)                    |  |  |
| 297155002         | Superficial femoral artery thrombosis (disorder)                            |  |  |
| 16013151000119102 | Thrombosis of left common femoral artery (disorder)                         |  |  |
| 16013111000119103 | Thrombosis of right common femoral artery (disorder)                        |  |  |
| 87239004          | Popliteal artery thrombosis (disorder)                                      |  |  |
| 195324000         | Embolism and thrombosis of the popliteal artery (disorder)                  |  |  |
| 297153009         | Profunda femoris artery thrombosis (disorder)                               |  |  |
| 16012831000119109 | Thrombosis of artery of left lower extremity (disorder)                     |  |  |
| 16012991000119101 | Thrombosis of left femoral artery (disorder)                                |  |  |
| 16012911000119105 | Thrombosis of left popliteal artery (disorder)                              |  |  |
| 16012791000119103 | Thrombosis of artery of right lower extremity (disorder)                    |  |  |
| 16013031000119107 | Thrombosis of right femoral artery (disorder)                               |  |  |
| 16012951000119106 | Thrombosis of right popliteal artery (disorder)                             |  |  |
| 31529002          | Thrombosis of arteries of upper extremity (disorder)                        |  |  |
| 733126003         | Acute occlusion of artery of upper limb caused by thromboembolus (disorder) |  |  |
| 733127007         | Acute occlusion of artery of upper limb caused by thrombus (disorder)       |  |  |
| 297146000         | Brachial artery thrombosis (disorder)                                       |  |  |
| 195319003         | Embolism and thrombosis of the brachial artery (disorder)                   |  |  |
| 195341003         | Embolism and thrombosis of the axillary artery (disorder)                   |  |  |
| 195320009         | Embolism and thrombosis of the radial artery (disorder)                     |  |  |
| 297154003         | Subclavian artery thrombosis (disorder)                                     |  |  |
| 16007871000119108 | Thrombosis of artery of left upper extremity (disorder)                     |  |  |
| 16007751000119109 | Thrombosis of artery of right upper extremity (disorder)                    |  |  |
| 427184002         | Thrombosis of ulnar artery (disorder)                                       |  |  |
| 195321008         | Embolism and thrombosis of the ulnar artery (disorder)                      |  |  |
| 82453008          | Thrombosis of iliac artery (disorder)                                       |  |  |
| 297150007         | Common iliac artery thrombosis (disorder)                                   |  |  |
| 195335005         | Embolism and/or thrombosis of the common iliac artery (disorder)            |  |  |
| 297151006         | External iliac artery thrombosis (disorder)                                 |  |  |
| 734299002         | Thromboembolus of external iliac artery (disorder)                          |  |  |

|                   |                                                    |  |  |
|-------------------|----------------------------------------------------|--|--|
| 297152004         | Internal iliac artery thrombosis (disorder)        |  |  |
| 734298005         | Thromboembolus of internal iliac artery (disorder) |  |  |
| 15972461000119101 | Thrombosis of left iliac artery (disorder)         |  |  |
| 15972501000119101 | Thrombosis of right iliac artery (disorder)        |  |  |
| 15972541000119104 | Thrombosis of bilateral iliac arteries (disorder)  |  |  |
| 243410003         | Thrombosis of mesenteric artery (disorder)         |  |  |
| 197000003         | Superior mesenteric artery thrombosis (disorder)   |  |  |
| 95579008          | Thrombosis of renal artery (disorder)              |  |  |
| 60989005          | Thromboembolism of renal arteries (disorder)       |  |  |
| 840961000000108   | Thrombosis of stent of renal artery (disorder)     |  |  |
| 405588004         | Upper limb artery stenosis (disorder)              |  |  |

**Cerebrovascular Disease**

| SNOMED Code       | Description                                                                                                                                         | Note |  |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------|--|
| 62914000          | Acute cerebrovascular insufficiency (disorder)                                                                                                      |      |  |
| 288723005         | Acute ill-defined cerebrovascular disease (disorder)                                                                                                |      |  |
| 253194008         | Aneurysm of the vein of Galen (disorder)                                                                                                            |      |  |
| 7931000119101     | Anterior choroidal artery thrombosis (disorder)                                                                                                     |      |  |
| 111028009         | Arteriopathic granular atrophy of cerebral cortex (disorder)                                                                                        |      |  |
| 230738008         | Asymptomatic cerebrovascular disease (disorder)                                                                                                     |      |  |
| 724427002         | Asymptomatic stenosis of intracranial artery (disorder)                                                                                             |      |  |
| 723857007         | Silent micro-hemorrhage of brain (disorder)                                                                                                         |      |  |
| 290581000119101   | Ataxia due to and following cerebrovascular accident (disorder)                                                                                     |      |  |
| 690201000119109   | Ataxia due to and following embolic cerebrovascular accident (disorder)                                                                             |      |  |
| 674121000119107   | Ataxia due to and following hemorrhagic cerebrovascular accident (disorder)                                                                         |      |  |
| 111299004         | Atheroma of cerebral arteries (disorder)                                                                                                            |      |  |
| 95456009          | Brain stem ischemia (disorder)                                                                                                                      |      |  |
| 254775002         | Bregat's syndrome (disorder)                                                                                                                        |      |  |
| 38742007          | Central retinal artery occlusion (disorder)                                                                                                         |      |  |
| 341801000119101   | Occlusion of left central retinal artery (disorder)                                                                                                 |      |  |
| 336191000119105   | Occlusion of right central retinal artery (disorder)                                                                                                |      |  |
| 347011000119102   | Occlusion of bilateral central retinal arteries (disorder)                                                                                          |      |  |
| 95458005          | Cerebellar artery occlusion (disorder)                                                                                                              |      |  |
| 195235008         | Occlusion and stenosis of cerebellar arteries (disorder)                                                                                            |      |  |
| 735131004         | Occlusion of left cerebellar artery (disorder)                                                                                                      |      |  |
| 735132006         | Occlusion of right cerebellar artery (disorder)                                                                                                     |      |  |
| 95459002          | Cerebellar artery thrombosis (disorder)                                                                                                             |      |  |
| 230724001         | Cerebral amyloid angiopathy (disorder)                                                                                                              |      |  |
| 703313007         | Cerebral amyloid angiopathy associated with systemic amyloidosis (disorder)                                                                         |      |  |
| 783161005         | Familial dementia British type (disorder)                                                                                                           |      |  |
| 237867001         | Hereditary cerebral hemorrhage with amyloidosis (disorder)                                                                                          |      |  |
| 724357007         | Sporadic cerebral amyloid angiopathy (disorder)                                                                                                     |      |  |
| 56453003          | Hereditary cerebral amyloid angiopathy, Dutch type (disorder)                                                                                       |      |  |
| 45639009          | Hereditary cerebral amyloid angiopathy, Icelandic type (disorder)                                                                                   |      |  |
| 705129007         | Thrombosis of middle cerebral artery (disorder)                                                                                                     |      |  |
| 65312002          | Cerebral arteriosclerosis (disorder)                                                                                                                |      |  |
| 55382008          | Cerebral atherosclerosis (disorder)                                                                                                                 |      |  |
| 390936003         | Cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy (disorder)                                               |      |  |
| 724779000         | White matter disorder co-occurrent and due to cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy (disorder) |      |  |
| 703219008         | Cerebral autosomal recessive arteriopathy with subcortical infarcts and leukoencephalopathy (disorder)                                              |      |  |
| 699706000         | Embolism of middle cerebral artery (disorder)                                                                                                       |      |  |
| 734959006         | Embolus of left cerebellar artery (disorder)                                                                                                        |      |  |
| 762632005         | Occlusion of left cerebellar artery by embolus (disorder)                                                                                           |      |  |
| 734960001         | Embolus of right cerebellar artery (disorder)                                                                                                       |      |  |
| 762633000         | Occlusion of right cerebellar artery by embolus (disorder)                                                                                          |      |  |
| 287731003         | Cerebral ischemia (disorder)                                                                                                                        |      |  |
| 771476007         | Autosomal recessive leukoencephalopathy, ischemic stroke, retinitis pigmentosa syndrome (disorder)                                                  |      |  |
| 111298007         | Chronic cerebral ischemia (disorder)                                                                                                                |      |  |
| 206576006         | Neonatal cerebral ischemia (disorder)                                                                                                               |      |  |
| 276706004         | Perinatal cerebral ischemia (disorder)                                                                                                              |      |  |
| 427020007         | Cerebral vasculitis (disorder)                                                                                                                      |      |  |
| 28366008          | Cerebral arteritis (disorder)                                                                                                                       |      |  |
| 703311009         | Cerebral arteritis due to infectious disease (disorder)                                                                                             |      |  |
| 230732009         | Cerebral arteritis in giant cell arteritis (disorder)                                                                                               |      |  |
| 230731002         | Cerebral arteritis in systemic vasculitis (disorder)                                                                                                |      |  |
| 186317009         | Listerial cerebral arteritis (disorder)                                                                                                             |      |  |
| 703312002         | Primary cerebral arteritis (disorder)                                                                                                               |      |  |
| 230735006         | Syphilitic cerebral arteritis (disorder)                                                                                                            |      |  |
| 302878004         | Intracranial septic thrombophlebitis (disorder)                                                                                                     |      |  |
| 230222003         | Septic thrombophlebitis of straight sinus (disorder)                                                                                                |      |  |
| 230224002         | Septic thrombophlebitis of cortical vein (disorder)                                                                                                 |      |  |
| 230225001         | Septic thrombophlebitis of great cerebral vein (disorder)                                                                                           |      |  |
| 192753009         | Phlebitis and thrombophlebitis of intracranial sinuses (disorder)                                                                                   |      |  |
| 698627005         | Postoperative phlebitis and thrombophlebitis of intracranial sinuses (disorder)                                                                     |      |  |
| 192769002         | Thrombophlebitis of central nervous system venous sinuses (disorder)                                                                                |      |  |
| 703218000         | Cerebral vasoconstriction syndrome (disorder)                                                                                                       |      |  |
| 700467001         | Reversible cerebral vasoconstriction syndrome (disorder)                                                                                            |      |  |
| 62702001          | Cerebral vein occlusion (disorder)                                                                                                                  |      |  |
| 23808003          | Rolandic vein occlusion syndrome (disorder)                                                                                                         |      |  |
| 8269002           | Cerebrospinal angiopathy (disorder)                                                                                                                 |      |  |
| 838309004         | Cerebrovascular abnormality due to Takayasu disease (disorder)                                                                                      |      |  |
| 16024111000119109 | Cerebrovascular accident due to occlusion of left carotid artery (disorder)                                                                         |      |  |
| 16024151000119105 | Cerebrovascular accident due to occlusion of left cerebellar artery (disorder)                                                                      |      |  |
| 16023991000119104 | Cerebrovascular accident due to occlusion of left pontine artery (disorder)                                                                         |      |  |
| 292691000119103   | Cerebrovascular accident due to occlusion of left vertebral artery (disorder)                                                                       |      |  |
| 16023911000119108 | Cerebrovascular accident due to occlusion of right carotid artery (disorder)                                                                        |      |  |
| 16024271000119107 | Cerebrovascular accident due to occlusion of right cerebellar artery (disorder)                                                                     |      |  |
| 16024031000119100 | Cerebrovascular accident due to occlusion of right pontine artery (disorder)                                                                        |      |  |
| 292681000119101   | Cerebrovascular accident due to occlusion of right vertebral artery (disorder)                                                                      |      |  |
| 16026991000119107 | Cerebrovascular accident due to stenosis of left carotid artery (disorder)                                                                          |      |  |
| 292671000119104   | Cerebrovascular accident due to stenosis of left vertebral artery (disorder)                                                                        |      |  |
| 16026951000119102 | Cerebrovascular accident due to stenosis of right carotid artery (disorder)                                                                         |      |  |
| 292661000119105   | Cerebrovascular accident due to stenosis of right vertebral artery (disorder)                                                                       |      |  |
| 716051003         | Cerebrovascular accident during surgery (disorder)                                                                                                  |      |  |
| 422504002         | Ischemic stroke (disorder)                                                                                                                          |      |  |
| 724426006         | Cerebral ischemic stroke due to extracranial large artery atherosclerosis (disorder)                                                                |      |  |
| 724425005         | Cerebral ischemic stroke due to intracranial large artery atherosclerosis (disorder)                                                                |      |  |
| 724993002         | Cerebral ischemic stroke due to occlusion of extracranial large artery (disorder)                                                                   |      |  |
| 724994008         | Cerebral ischemic stroke due to stenosis of extracranial large artery (disorder)                                                                    |      |  |
| 140911000119109   | Ischemic stroke with coma (disorder)                                                                                                                |      |  |
| 725132001         | Ischemic stroke without residual deficits (disorder)                                                                                                |      |  |
| 722929005         | Perinatal arterial ischemic stroke (disorder)                                                                                                       |      |  |
| 39925003          | Juvenile myopathy, encephalopathy, lactic acidosis AND stroke (disorder)                                                                            |      |  |
| 371121002         | Neonatal stroke (disorder)                                                                                                                          |      |  |
| 384993003         | Periventricular hemorrhagic venous infarct (disorder)                                                                                               |      |  |
| 329671000119106   | Traumatic subarachnoid hemorrhage with loss of consciousness (disorder)                                                                             |      |  |

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|-------------------|--------------------------------------------------------------------------------------------------------------------------|--|--|
| 472746006         | Cerebrovascular disorder due to paradoxical embolus (disorder)                                                           |  |  |
| 6594005           | Cerebrovascular disorder in the puerperium (disorder)                                                                    |  |  |
| 200330000         | Puerperal cerebrovascular disorder - delivered (disorder)                                                                |  |  |
| 200331001         | Puerperal cerebrovascular disorder - delivered with postnatal complication (disorder)                                    |  |  |
| 200332008         | Puerperal cerebrovascular disorder with antenatal complication (disorder)                                                |  |  |
| 200333003         | Puerperal cerebrovascular disorder with postnatal complication (disorder)                                                |  |  |
| 204497008         | Cerebrovascular system anomalies (disorder)                                                                              |  |  |
| 232036006         | Cilioretinal artery occlusion (disorder)                                                                                 |  |  |
| 16279441000119105 | Occlusion of left cilioretinal artery (disorder)                                                                         |  |  |
| 16279401000119108 | Occlusion of right cilioretinal artery (disorder)                                                                        |  |  |
| 65587001          | Congenital anomaly of cerebrovascular system (disorder)                                                                  |  |  |
| 204493007         | Arteriovenous malformation of precerebral vessels (disorder)                                                             |  |  |
| 783630000         | Congenital aneurysm of precerebral artery (disorder)                                                                     |  |  |
| 703221003         | Congenital intracranial vascular malformation (disorder)                                                                 |  |  |
| 234142008         | Cerebral arteriovenous malformation (disorder)                                                                           |  |  |
| 703266007         | Cerebrofacial arteriovenous metamerism syndrome (disorder)                                                               |  |  |
| 6729006           | Cerebral-retinal arteriovenous aneurysm (disorder)                                                                       |  |  |
| 703267003         | Cerebrofacial arteriovenous metamerism syndrome type 1 (disorder)                                                        |  |  |
| 703268008         | Cerebrofacial arteriovenous metamerism syndrome type 3 (disorder)                                                        |  |  |
| 721979005         | Lymphedema and cerebral arteriovenous anomaly syndrome (disorder)                                                        |  |  |
| 277299009         | Ruptured cerebral arteriovenous malformation (disorder)                                                                  |  |  |
| 54265003          | Congenital anomaly of cerebral artery (disorder)                                                                         |  |  |
| 936271000000100   | Congenital anomaly of precerebral vessel (disorder)                                                                      |  |  |
| 234149004         | Congenital arteriovenous fistula of brain (disorder)                                                                     |  |  |
| 2495006           | Congenital cerebral arteriovenous aneurysm (disorder)                                                                    |  |  |
| 416792008         | Vein of Galen malformation (disorder)                                                                                    |  |  |
| 460880006         | Arteriovenous fistula of great cerebral vein of Galen (disorder)                                                         |  |  |
| 302909007         | Diffuse cerebrovascular disease (disorder)                                                                               |  |  |
| 17003001          | Hereditary cavernous hemangioma of brain (disorder)                                                                      |  |  |
| 106021000119105   | Multi-infarct dementia due to atherosclerosis (disorder)                                                                 |  |  |
| 10349009          | Multi-infarct dementia with delirium (disorder)                                                                          |  |  |
| 25772007          | Multi-infarct dementia with delusions (disorder)                                                                         |  |  |
| 14070001          | Multi-infarct dementia with depression (disorder)                                                                        |  |  |
| 70936005          | Multi-infarct dementia, uncomplicated (disorder)                                                                         |  |  |
| 371158002         | Disorder of basilar artery (disorder)                                                                                    |  |  |
| 737160009         | Dissection of basilar artery (disorder)                                                                                  |  |  |
| 371160000         | Disorder of carotid artery (disorder)                                                                                    |  |  |
| 233988005         | Carotid artery aneurysm (disorder)                                                                                       |  |  |
| 10878002          | Aneurysm of common carotid artery (disorder)                                                                             |  |  |
| 61091005          | Aneurysm of external carotid artery (disorder)                                                                           |  |  |
| 24624008          | Aneurysm of internal carotid artery (disorder)                                                                           |  |  |
| 284811000119102   | Aneurysm of extracranial portion of internal carotid artery (disorder)                                                   |  |  |
| 284821000119109   | Aneurysm of intracranial portion of internal carotid artery (disorder)                                                   |  |  |
| 15648561000119102 | Aneurysm of left carotid artery (disorder)                                                                               |  |  |
| 15648481000119107 | Aneurysm of left common carotid artery (disorder)                                                                        |  |  |
| 15648401000119104 | Aneurysm of left internal carotid artery (disorder)                                                                      |  |  |
| 15648321000119103 | Aneurysm of extracranial portion of left internal carotid artery (disorder)                                              |  |  |
| 15648241000119103 | Aneurysm of intracranial portion of left internal carotid artery (disorder)                                              |  |  |
| 15648521000119107 | Aneurysm of right carotid artery (disorder)                                                                              |  |  |
| 15648441000119102 | Aneurysm of right common carotid artery (disorder)                                                                       |  |  |
| 15648361000119108 | Aneurysm of right internal carotid artery (disorder)                                                                     |  |  |
| 15648281000119108 | Aneurysm of extracranial portion of right internal carotid artery (disorder)                                             |  |  |
| 15648201000119100 | Aneurysm of intracranial portion of right internal carotid artery (disorder)                                             |  |  |
| 80606009          | Carotid artery embolism (disorder)                                                                                       |  |  |
| 76402003          | Carotid artery insufficiency syndrome (disorder)                                                                         |  |  |
| 234006003         | Carotid artery rupture (disorder)                                                                                        |  |  |
| 195155004         | Subarachnoid hemorrhage from carotid siphon and bifurcation (disorder)                                                   |  |  |
| 99451000119105    | Cerebral infarction due to stenosis of carotid artery (disorder)                                                         |  |  |
| 93396008          | Congenital stenosis of carotid artery (disorder)                                                                         |  |  |
| 233964008         | Internal carotid artery stenosis (disorder)                                                                              |  |  |
| 285191000119103   | Stenosis of left carotid artery (disorder)                                                                               |  |  |
| 285201000119100   | Stenosis of right carotid artery (disorder)                                                                              |  |  |
| 787044009         | Stenosis of bilateral carotid arteries (disorder)                                                                        |  |  |
| 9611000119107     | Symptomatic carotid artery stenosis (disorder)                                                                           |  |  |
| 300920004         | Carotid atherosclerosis (disorder)                                                                                       |  |  |
| 284871000119105   | Atherosclerosis of left carotid artery (disorder)                                                                        |  |  |
| 284881000119108   | Atherosclerosis of right carotid artery (disorder)                                                                       |  |  |
| 284861000119104   | Atherosclerosis of bilateral carotid arteries (disorder)                                                                 |  |  |
| 9631000119102     | Carotid sinus hypersensitivity (disorder)                                                                                |  |  |
| 51723007          | Carotid sinus syncope (disorder)                                                                                         |  |  |
| 230482003         | Carotidynia (disorder)                                                                                                   |  |  |
| 92997002          | Congenital anomaly of carotid artery (disorder)                                                                          |  |  |
| 722004001         | Agenesis of internal carotid artery (disorder)                                                                           |  |  |
| 460890003         | Anomalous common origin of brachiocephalic artery and left common carotid artery (disorder)                              |  |  |
| 460890002         | Anomalous origin of left common carotid artery from brachiocephalic artery (disorder)                                    |  |  |
| 461326001         | Anomalous separate origins of internal carotid arteries and external carotid arteries from single aortic arch (disorder) |  |  |
| 92962004          | Congenital absence of carotid artery (disorder)                                                                          |  |  |
| 93054001          | Congenital dilatation of carotid artery (disorder)                                                                       |  |  |
| 93312006          | Congenital malposition of carotid artery (disorder)                                                                      |  |  |
| 95235009          | Retrosophageal carotid artery (disorder)                                                                                 |  |  |
| 253699002         | Isolation of common carotid artery (disorder)                                                                            |  |  |
| 445109004         | Isolation of left common carotid artery (disorder)                                                                       |  |  |
| 445349004         | Isolation of right common carotid artery (disorder)                                                                      |  |  |
| 460312001         | Systemic to pulmonary collateral artery from left carotid artery (disorder)                                              |  |  |
| 460307002         | Systemic to pulmonary collateral artery from right carotid artery (disorder)                                             |  |  |
| 783731008         | Fibromuscular dysplasia of wall of carotid artery (disorder)                                                             |  |  |
| 783733006         | Fibromuscular dysplasia of wall of bilateral carotid arteries (disorder)                                                 |  |  |
| 6956001           | Injury of carotid artery (disorder)                                                                                      |  |  |
| 19474002          | Injury of common carotid artery (disorder)                                                                               |  |  |
| 6715005           | Injury of external carotid artery (disorder)                                                                             |  |  |
| 80820004          | Injury of internal carotid artery (disorder)                                                                             |  |  |
| 722642008         | Major laceration of carotid artery (disorder)                                                                            |  |  |
| 721411005         | Minor laceration of carotid artery (disorder)                                                                            |  |  |
| 213044006         | Mechanical complication of carotid artery bypass (disorder)                                                              |  |  |
| 262942001         | Transection of carotid artery (disorder)                                                                                 |  |  |
| 128218002         | Disorder of intracranial venous sinus (disorder)                                                                         |  |  |
| 302213007         | Carotidocavernous sinus fistula (disorder)                                                                               |  |  |
| 126011000119107   | Acquired carotidocavernous sinus fistula (disorder)                                                                      |  |  |
| 15988391000119106 | Acquired left carotid cavernous sinus fistula (disorder)                                                                 |  |  |
| 15988351000119101 | Acquired right carotid cavernous sinus fistula (disorder)                                                                |  |  |
| 128171000119104   | Spontaneous carotidocavernous sinus fistula (disorder)                                                                   |  |  |
| 230721009         | Cerebral venous thrombosis of sigmoid sinus (disorder)                                                                   |  |  |
| 230720005         | Cerebral venous thrombosis of straight sinus (disorder)                                                                  |  |  |
| 702374000         | Neonatal noninfectious cerebral venous sinus thrombosis (disorder)                                                       |  |  |
| 722930000         | Neonatal thrombosis of cerebral venous sinus (disorder)                                                                  |  |  |
| 195229008         | Non-pyogenic venous sinus thrombosis (disorder)                                                                          |  |  |
| 42970005          | Nonpyogenic thrombosis of intracranial venous sinus (disorder)                                                           |  |  |



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|-------------------|-----------------------------------------------------------------------------------|--|--|
| 200258006         | Obstetric cerebral venous thrombosis (disorder)                                   |  |  |
| 200259003         | Cerebral venous thrombosis in pregnancy (disorder)                                |  |  |
| 200260008         | Cerebral venous thrombosis in the puerperium (disorder)                           |  |  |
| 88922007          | Thrombosis of basilar sinus (disorder)                                            |  |  |
| 89980009          | Thrombosis of cavernous venous sinus (disorder)                                   |  |  |
| 35386004          | Cavernous sinus syndrome (disorder)                                               |  |  |
| 192770001         | Thrombophlebitis of cavernous sinus (disorder)                                    |  |  |
| 302879007         | Septic thrombophlebitis of cavernous sinus (disorder)                             |  |  |
| 15742000          | Thrombosis of inferior sagittal sinus (disorder)                                  |  |  |
| 63795001          | Thrombosis of intracranial venous sinus of pregnancy AND/OR puerperium (disorder) |  |  |
| 21258007          | Thrombosis of lateral venous sinus (disorder)                                     |  |  |
| 192760003         | Thrombosis of superior longitudinal sinus (disorder)                              |  |  |
| 70607008          | Thrombosis of superior sagittal sinus (disorder)                                  |  |  |
| 18322005          | Thrombosis of torcular Herophili (disorder)                                       |  |  |
| 192761004         | Thrombosis transverse sinus (disorder)                                            |  |  |
| 703193000         | Congenital malformation of dural sinus (disorder)                                 |  |  |
| 423462008         | Dural carotid cavernous fistula (disorder)                                        |  |  |
| 860820000         | Hypoplasia of cranial sinus (disorder)                                            |  |  |
| 50751005          | Sinus pericranii (disorder)                                                       |  |  |
| 14246007          | Embolism of intracranial venous sinus (disorder)                                  |  |  |
| 16418006          | Embolism of basilar sinus (disorder)                                              |  |  |
| 23819000          | Embolism of cavernous venous sinus (disorder)                                     |  |  |
| 56384000          | Embolism of inferior sagittal sinus (disorder)                                    |  |  |
| 80758005          | Embolism of lateral venous sinus (disorder)                                       |  |  |
| 40450001          | Embolism of superior sagittal sinus (disorder)                                    |  |  |
| 12853006          | Embolism of torcular Herophili (disorder)                                         |  |  |
| 192755002         | Embolism superior longitudinal sinus (disorder)                                   |  |  |
| 18058007          | Phlebitis of intracranial venous sinus (disorder)                                 |  |  |
| 87937009          | Endophlebitis of intracranial venous sinus (disorder)                             |  |  |
| 73390009          | Endophlebitis of cavernous venous sinus (disorder)                                |  |  |
| 192764007         | Phlebitis cavernous sinus (disorder)                                              |  |  |
| 15705007          | Phlebitis of basilar sinus (disorder)                                             |  |  |
| 55734000          | Endophlebitis of basilar sinus (disorder)                                         |  |  |
| 8166000           | Thrombophlebitis of basilar sinus (disorder)                                      |  |  |
| 32112006          | Phlebitis of inferior sagittal sinus (disorder)                                   |  |  |
| 61687004          | Endophlebitis of inferior sagittal sinus (disorder)                               |  |  |
| 48248005          | Thrombophlebitis of inferior sagittal sinus (disorder)                            |  |  |
| 88755007          | Phlebitis of lateral venous sinus (disorder)                                      |  |  |
| 16061002          | Endophlebitis of lateral venous sinus (disorder)                                  |  |  |
| 302881009         | Septic thrombophlebitis of lateral sinus (disorder)                               |  |  |
| 192772009         | Thrombophlebitis lateral venous sinus (disorder)                                  |  |  |
| 4262001           | Phlebitis of superior sagittal sinus (disorder)                                   |  |  |
| 75138007          | Endophlebitis of superior sagittal sinus (disorder)                               |  |  |
| 192765008         | Phlebitis of superior longitudinal sinus (disorder)                               |  |  |
| 26954004          | Thrombophlebitis of superior sagittal sinus (disorder)                            |  |  |
| 60706008          | Phlebitis of torcular Herophili (disorder)                                        |  |  |
| 80901002          | Endophlebitis of torcular Herophili (disorder)                                    |  |  |
| 3681008           | Thrombophlebitis of torcular Herophili (disorder)                                 |  |  |
| 302880005         | Septic thrombophlebitis of sagittal sinus (disorder)                              |  |  |
| 230223008         | Septic thrombophlebitis of sigmoid sinus (disorder)                               |  |  |
| 192771002         | Thrombophlebitis of superior longitudinal venous sinus (disorder)                 |  |  |
| 840441005         | Dissection of intracranial artery (disorder)                                      |  |  |
| 713081000         | Dissection of cerebral artery (disorder)                                          |  |  |
| 840422007         | Dissection of anterior cerebral artery (disorder)                                 |  |  |
| 840436002         | Dissection of middle cerebral artery (disorder)                                   |  |  |
| 840437006         | Dissection of multiple cerebral arteries (disorder)                               |  |  |
| 840434004         | Dissection of posterior cerebral artery (disorder)                                |  |  |
| 713035000         | Dissection of precerebral artery (disorder)                                       |  |  |
| 870637009         | Dissection of cervical artery (disorder)                                          |  |  |
| 720626009         | Dissection of carotid artery (disorder)                                           |  |  |
| 720809000         | Dissection of external carotid artery (disorder)                                  |  |  |
| 840419005         | Dissection of extracranial carotid artery (disorder)                              |  |  |
| 705066004         | Dissection of internal carotid artery (disorder)                                  |  |  |
| 840439009         | Dissection of intracranial carotid artery (disorder)                              |  |  |
| 15708001000119106 | Dissection of left carotid artery (disorder)                                      |  |  |
| 15708041000119108 | Dissection of right carotid artery (disorder)                                     |  |  |
| 15707961000119109 | Dissection of bilateral carotid arteries (disorder)                               |  |  |
| 230730001         | Dissection of vertebral artery (disorder)                                         |  |  |
| 840420004         | Dissection of extracranial vertebral artery (disorder)                            |  |  |
| 840438001         | Dissection of intracranial vertebral artery (disorder)                            |  |  |
| 15710721000119104 | Dissection of left vertebral artery (disorder)                                    |  |  |
| 15710681000119105 | Dissection of right vertebral artery (disorder)                                   |  |  |
| 15710641000119100 | Dissection of bilateral vertebral arteries (disorder)                             |  |  |
| 703166003         | Dural arteriovenous fistula (disorder)                                            |  |  |
| 16476641000119100 | Acquired arteriovenous fistula of dura of cerebrum (disorder)                     |  |  |
| 449903008         | Dural arteriovenous fistula of spinal cord (disorder)                             |  |  |
| 40276003          | Embolism of precerebral artery (disorder)                                         |  |  |
| 111296006         | Basilar artery embolism (disorder)                                                |  |  |
| 37943007          | Multiple AND bilateral precerebral artery embolism (disorder)                     |  |  |
| 65084004          | Vertebral artery embolism (disorder)                                              |  |  |
| 110997000         | Fahr's syndrome (disorder)                                                        |  |  |
| 838308007         | Fibromuscular dysplasia of wall of intracranial artery (disorder)                 |  |  |
| 93468003          | Hemangioma of intracranial structure (disorder)                                   |  |  |
| 444869007         | Cavernous hemangioma of brain (disorder)                                          |  |  |
| 717003001         | Hereditary cavernous hemangioma of brain (disorder)                               |  |  |
| 403775003         | Hereditary neurocutaneous angiomata (disorder)                                    |  |  |
| 428089008         | Venous hemangioma of brain (disorder)                                             |  |  |
| 286742002         | Impending cerebrovascular accident (disorder)                                     |  |  |
| 721328009         | Injury of intracranial vessel of head (disorder)                                  |  |  |
| 262717000         | Injury of vertebral artery (disorder)                                             |  |  |
| 722643003         | Major laceration of vertebral artery (disorder)                                   |  |  |
| 721412003         | Minor laceration of vertebral artery (disorder)                                   |  |  |
| 128609009         | Intracranial aneurysm (disorder)                                                  |  |  |
| 783418004         | Aneurysm of anterior communicating artery (disorder)                              |  |  |
| 590005            | Congenital aneurysm of anterior communicating artery (disorder)                   |  |  |
| 737159004         | Aneurysm of basilar artery (disorder)                                             |  |  |
| 783415001         | Aneurysm of internal carotid bifurcation (disorder)                               |  |  |
| 783422009         | Aneurysm of internal carotid-anterior communicating artery zone (disorder)        |  |  |
| 783423004         | Aneurysm of internal carotid-posterior communicating artery zone (disorder)       |  |  |
| 783421002         | Aneurysm of posterior communicating artery (disorder)                             |  |  |
| 783417009         | Aneurysm of posterior inferior cerebellar artery (disorder)                       |  |  |
| 277196008         | Berry aneurysm (disorder)                                                         |  |  |
| 703226008         | Familial cerebral saccular aneurysm (disorder)                                    |  |  |
| 128608001         | Cerebral arterial aneurysm (disorder)                                             |  |  |
| 783716004         | Acquired aneurysm of cerebral artery (disorder)                                   |  |  |
| 783416000         | Aneurysm of anterior cerebral artery (disorder)                                   |  |  |
| 783420001         | Aneurysm of middle cerebral artery (disorder)                                     |  |  |

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|-------------------|------------------------------------------------------------------------------------------------------------|-----------|--|
| 783419007         | Aneurysm of posterior cerebral artery (disorder)                                                           |           |  |
| 783707003         | Cerebral aneurysm due to dissection of cerebral artery (disorder)                                          |           |  |
| 783629005         | Congenital aneurysm of cerebral artery (disorder)                                                          |           |  |
| 783413008         | Multiple aneurysms of cerebral artery (disorder)                                                           |           |  |
| 233983001         | Ruptured cerebral aneurysm (disorder)                                                                      |           |  |
| 713265001         | Nontraumatic ruptured cerebral aneurysm (disorder)                                                         |           |  |
| 186893003         | Rupture of syphilitic cerebral aneurysm (disorder)                                                         |           |  |
| 277315000         | Ruptured aneurysm of anterior cerebral artery (disorder)                                                   |           |  |
| 277320000         | Ruptured aneurysm of anterior communicating artery (disorder)                                              |           |  |
| 277324009         | Ruptured aneurysm of basilar artery (disorder)                                                             |           |  |
| 277316004         | Ruptured aneurysm of middle cerebral artery (disorder)                                                     |           |  |
| 277319006         | Ruptured aneurysm of posterior cerebral artery (disorder)                                                  |           |  |
| 277322008         | Ruptured aneurysm of posterior communicating artery (disorder)                                             |           |  |
| 734880004         | Ruptured aneurysm of left posterior communicating artery (disorder)                                        |           |  |
| 734879002         | Ruptured aneurysm of right posterior communicating artery (disorder)                                       |           |  |
| 277325005         | Ruptured aneurysm of posterior inferior cerebellar artery (disorder)                                       |           |  |
| 195154000         | Ruptured berry aneurysm (disorder)                                                                         |           |  |
| 277330009         | Ruptured internal carotid bifurcation aneurysm (disorder)                                                  |           |  |
| 277328007         | Ruptured internal carotid-anterior communicating artery zone aneurysm (disorder)                           |           |  |
| 277329004         | Ruptured internal carotid-posterior communicating artery zone aneurysm (disorder)                          |           |  |
| 230220006         | Intracranial septic embolism (disorder)                                                                    |           |  |
| 230221005         | Intracranial arterial septic embolism (disorder)                                                           |           |  |
| 307362003         | Intracranial venous septic embolism (disorder)                                                             |           |  |
| 297157005         | Intracranial venous thrombosis (disorder)                                                                  |           |  |
| 192759008         | Cerebral venous sinus thrombosis (disorder)                                                                | See above |  |
| 312586003         | Intracranial thrombophlebitis (disorder)                                                                   | See above |  |
| 95455008          | Thrombosis of cerebral veins (disorder)                                                                    |           |  |
| 230722002         | Cerebral venous thrombosis of cortical vein (disorder)                                                     |           |  |
| 230723007         | Cerebral venous thrombosis of great cerebral vein (disorder)                                               |           |  |
| 84216001          | Cerebral venous thrombosis of pregnancy AND/OR puerperium (disorder)                                       |           |  |
| 95461006          | Thrombophlebitis of cerebral vein (disorder)                                                               |           |  |
| 871637001         | Thrombosis of multiple cerebral veins (disorder)                                                           |           |  |
| 716745004         | Livedo reticularis and cerebrovascular accident syndrome (disorder)                                        |           |  |
| 30400005          | Middle meningeal hemorrhage following injury (disorder)                                                    |           |  |
| 79341000119107    | Mixed dementia (disorder)                                                                                  |           |  |
| 69116000          | Moyamoya disease (disorder)                                                                                |           |  |
| 724097003         | Moyamoya angiopathy, short stature, facial dysmorphism, hypergonadotropic hypogonadism syndrome (disorder) |           |  |
| 718551002         | Moyamoya disease with early onset achalasia (disorder)                                                     |           |  |
| 28790007          | Obstruction of precerebral artery (disorder)                                                               |           |  |
| 69798007          | Carotid artery obstruction (disorder)                                                                      | See above |  |
| 67992007          | Multiple AND bilateral precerebral artery obstruction (disorder)                                           |           |  |
| 266253001         | Precerebral arterial occlusion (disorder)                                                                  |           |  |
| 195180004         | Basilar artery occlusion (disorder)                                                                        |           |  |
| 703206009         | Asymptomatic occlusion of basilar artery (disorder)                                                        |           |  |
| 195183002         | Multiple and bilateral precerebral arterial occlusion (disorder)                                           |           |  |
| 266254007         | Occlusion of carotid artery (disorder)                                                                     |           |  |
| 703180005         | Asymptomatic occlusion of extracranial carotid artery (disorder)                                           |           |  |
| 703184001         | Asymptomatic occlusion of intracranial carotid artery (disorder)                                           |           |  |
| 285161000119105   | Occlusion of left carotid artery (disorder)                                                                |           |  |
| 285171000119104   | Occlusion of right carotid artery (disorder)                                                               |           |  |
| 426651005         | Occlusion of bilateral carotid arteries (disorder)                                                         |           |  |
| 195182007         | Vertebral artery occlusion (disorder)                                                                      |           |  |
| 292631000119102   | Occlusion of left vertebral artery (disorder)                                                              |           |  |
| 43658003          | Vertebral artery obstruction (disorder)                                                                    |           |  |
| 15978631000119109 | Occlusion of bilateral vertebral arteries (disorder)                                                       |           |  |
| 292621000119100   | Occlusion of right vertebral artery (disorder)                                                             |           |  |
| 870566003         | Occlusion of anterior choroidal artery (disorder)                                                          |           |  |
| 408664007         | Pontine artery occlusion (disorder)                                                                        |           |  |
| 735115007         | Occlusion of left pontine artery (disorder)                                                                |           |  |
| 735114006         | Occlusion of right pontine artery (disorder)                                                               |           |  |
| 703207000         | Asymptomatic occlusion of anterior cerebral artery (disorder)                                              |           |  |
| 703208005         | Asymptomatic occlusion of middle cerebral artery (disorder)                                                |           |  |
| 703205008         | Asymptomatic occlusion of posterior cerebral artery (disorder)                                             |           |  |
| 9901000119100     | Occlusion of cerebral artery with stroke (disorder)                                                        |           |  |
| 89142007          | Progressive intracranial arterial occlusion (disorder)                                                     |           |  |
| 702575003         | Retinocochleocerebral vasculopathy (disorder)                                                              |           |  |
| 36179005          | Reversible ischemic neurologic deficit syndrome (disorder)                                                 |           |  |
| 275363001         | Rupture of superficial cerebral vein (disorder)                                                            |           |  |
| 276594006         | Perinatal rupture of superficial cerebral vein (disorder)                                                  |           |  |
| 703163006         | Secondary cerebrovascular disease (disorder)                                                               |           |  |
| 443929000         | Small vessel cerebrovascular disease (disorder)                                                            |           |  |
| 778060000         | Collagen type IV alpha 1 chain related familial vascular leukoencephalopathy (disorder)                    |           |  |
| 783787000         | Retinal vasculopathy with cerebral leukoencephalopathy and systemic manifestations (disorder)              |           |  |
| 73173006          | Spasm of cerebral arteries (disorder)                                                                      |           |  |
| 291371000119100   | Spontaneous hemorrhage of subarachnoid space from intracranial artery (disorder)                           |           |  |
| 291481000119105   | Spontaneous haemorrhage of subarachnoid space from right posterior communicating artery (disorder)         |           |  |
| 6709811000119106  | Spontaneous hemorrhage of subarachnoid space from anterior communicating artery (disorder)                 |           |  |
| 291351000119109   | Spontaneous hemorrhage of subarachnoid space from basilar artery (disorder)                                |           |  |
| 291411000119104   | Spontaneous hemorrhage of subarachnoid space from left posterior communicating artery (disorder)           |           |  |
| 734396006         | Spontaneous rupture of left posterior communicating artery (disorder)                                      |           |  |
| 734397002         | Spontaneous rupture of right posterior communicating artery (disorder)                                     |           |  |
| 838275008         | Stenosis of cerebral artery (disorder)                                                                     |           |  |
| 204501003         | Congenital stricture of cerebral artery (disorder)                                                         |           |  |
| 195233001         | Occlusion and stenosis of anterior cerebral artery (disorder)                                              |           |  |
| 195232006         | Occlusion and stenosis of middle cerebral artery (disorder)                                                |           |  |
| 195236009         | Occlusion and stenosis of multiple and bilateral cerebral arteries (disorder)                              |           |  |
| 195234007         | Occlusion and stenosis of posterior cerebral artery (disorder)                                             |           |  |
| 762649003         | Stenosis of left cerebellar artery (disorder)                                                              |           |  |
| 1055001           | Stenosis of precerebral artery (disorder)                                                                  |           |  |
| 724428007         | Asymptomatic stenosis of extracranial artery (disorder)                                                    |           |  |
| 54519002          | Basilar artery stenosis (disorder)                                                                         |           |  |
| 64586002          | Carotid artery stenosis (disorder)                                                                         | See above |  |
| 73192008          | Multiple AND bilateral precerebral artery stenosis (disorder)                                              |           |  |
| 90520006          | Vertebral artery stenosis (disorder)                                                                       |           |  |
| 734326000         | Stenosis of left vertebral artery (disorder)                                                               |           |  |
| 88454002          | Stenosis of bilateral vertebral arteries (disorder)                                                        |           |  |
| 734327009         | Stenosis of right vertebral artery (disorder)                                                              |           |  |
| 788454002         | Stenosis of bilateral vertebral arteries (disorder)                                                        |           |  |
| 762648006         | Stenosis of right cerebellar artery (disorder)                                                             |           |  |
| 446712002         | Thromboembolus of precerebral artery (disorder)                                                            |           |  |
| 698363002         | Postoperative thromboembolus of precerebral artery (disorder)                                              |           |  |
| 425932008         | Thrombosis of posterior communicating artery (disorder)                                                    |           |  |
| 48601002          | Thrombosis of precerebral artery (disorder)                                                                |           |  |
| 88174006          | Basilar artery thrombosis (disorder)                                                                       |           |  |
| 408665008         | Pontine artery thrombosis (disorder)                                                                       |           |  |
| 86003009          | Carotid artery thrombosis (disorder)                                                                       |           |  |
| 425420004         | Thrombosis of internal carotid artery (disorder)                                                           |           |  |

|                   |                                                                       |  |  |
|-------------------|-----------------------------------------------------------------------|--|--|
| 734374000         | Thrombosis of left carotid artery (disorder)                          |  |  |
| 734382000         | Thrombosis of right carotid artery (disorder)                         |  |  |
| 14977000          | Multiple AND bilateral precerebral artery thrombosis (disorder)       |  |  |
| 262940009         | Transection of vertebral artery (disorder)                            |  |  |
| 88032003          | Amaurosis fugax (disorder)                                            |  |  |
| 12237911000119109 | Amaurosis fugax of left eye (disorder)                                |  |  |
| 12237951000119105 | Amaurosis fugax of right eye (disorder)                               |  |  |
| 95209007          | Middle cerebral artery syndrome (disorder)                            |  |  |
| 710575003         | Transient ischemic attack due to embolism (disorder)                  |  |  |
| 297176007         | Vertebral artery aneurysm (disorder)                                  |  |  |
| 16662371000119109 | Aneurysm of left vertebral artery (disorder)                          |  |  |
| 16662331000119106 | Aneurysm of right vertebral artery (disorder)                         |  |  |
| 234005004         | Vertebral artery rupture (disorder)                                   |  |  |
| 195160000         | Intracranial subarachnoid hemorrhage from vertebral artery (disorder) |  |  |
| 703176000         | Ruptured aneurysm of vertebral artery (disorder)                      |  |  |
| 64775002          | Vertebral artery thrombosis (disorder)                                |  |  |
| 15978471000119109 | Thrombosis of left vertebral artery (disorder)                        |  |  |

**Type 2 Diabetes. Defined in Viso as:**

Patients with a Diabetes Type 2 code that do not have a more recent Diabetes resolved code

Type 2 Diabetes marked present in Viso if patient coded any of the below codes, without a more recent 'resolved' code

Source: <https://isd.digital.nhs.uk/trud3/user/authenticated/group/0/pack/8/subpack/659/releases>

| PCD Refset ID 999010771000230109 |                                                                           | DMTYPE2_COD |                           |
|----------------------------------|---------------------------------------------------------------------------|-------------|---------------------------|
| SNOMED code                      | SNOMED code description                                                   | Cluster ID  | Cluster description       |
| 420279001                        | Renal disorder due to type 2 diabetes mellitus (disorder)                 | DMTYPE2_COD | Codes for diabetes type 2 |
| 420436000                        | Mononeuropathy due to type 2 diabetes mellitus (disorder)                 | DMTYPE2_COD | Codes for diabetes type 2 |
| 421326000                        | Neurological disorder with type 2 diabetes mellitus                       | DMTYPE2_COD | Codes for diabetes type 2 |
| 421631007                        | Gangrene due to type 2 diabetes mellitus (disorder)                       | DMTYPE2_COD | Codes for diabetes type 2 |
| 422034002                        | Retinopathy due to type 2 diabetes mellitus (disorder)                    | DMTYPE2_COD | Codes for diabetes type 2 |
| 422099009                        | Disorder of eye due to type 2 diabetes mellitus (disorder)                | DMTYPE2_COD | Codes for diabetes type 2 |
| 190388001                        | Multiple complications due to type 2 diabetes mellitus (disorder)         | DMTYPE2_COD | Codes for diabetes type 2 |
| 190390000                        | Type II diabetes mellitus with gangrene (disorder)                        | DMTYPE2_COD | Codes for diabetes type 2 |
| 237599002                        | Insulin treated type 2 diabetes mellitus (disorder)                       | DMTYPE2_COD | Codes for diabetes type 2 |
| 314902007                        | Peripheral angiopathy due to type 2 diabetes mellitus (disorder)          | DMTYPE2_COD | Codes for diabetes type 2 |
| 314903002                        | Arthropathy due to type 2 diabetes mellitus (disorder)                    | DMTYPE2_COD | Codes for diabetes type 2 |
| 395204000                        | Hyperosmolar non-ketotic state due to type 2 diabetes mellitus (disorder) | DMTYPE2_COD | Codes for diabetes type 2 |
| 421847006                        | Ketoacidotic coma due to type 2 diabetes mellitus (disorder)              | DMTYPE2_COD | Codes for diabetes type 2 |
| 420715001                        | Persistent microalbuminuria due to type 2 diabetes mellitus (disorder)    | DMTYPE2_COD | Codes for diabetes type 2 |
| 420756003                        | Cataract of eye due to diabetes mellitus type 2 (disorder)                | DMTYPE2_COD | Codes for diabetes type 2 |
| 421779007                        | Exudative maculopathy due to type 2 diabetes mellitus (disorder)          | DMTYPE2_COD | Codes for diabetes type 2 |
| 421986006                        | Persistent proteinuria due to type 2 diabetes mellitus (disorder)         | DMTYPE2_COD | Codes for diabetes type 2 |
| 713703005                        | Gastroparesis due to type 2 diabetes mellitus (disorder)                  | DMTYPE2_COD | Codes for diabetes type 2 |
| 713706002                        | Polyneuropathy due to type 2 diabetes mellitus (disorder)                 | DMTYPE2_COD | Codes for diabetes type 2 |
| 719216001                        | Hypoglycemic coma due to type 2 diabetes mellitus                         | DMTYPE2_COD | Codes for diabetes type 2 |
| 1481000119100                    | Diabetes mellitus type 2 without retinopathy (disorder)                   | DMTYPE2_COD | Codes for diabetes type 2 |
| 190389009                        | Type II diabetes mellitus with ulcer (disorder)                           | DMTYPE2_COD | Codes for diabetes type 2 |
| 313436004                        | Type II diabetes mellitus without complication (disorder)                 | DMTYPE2_COD | Codes for diabetes type 2 |
| 314904008                        | Type II diabetes mellitus with neuropathic arthropathy (disorder)         | DMTYPE2_COD | Codes for diabetes type 2 |
| 421750000                        | Ketoacidosis due to type 2 diabetes mellitus (disorder)                   | DMTYPE2_COD | Codes for diabetes type 2 |
| 44054006                         | Diabetes mellitus type 2 (disorder)                                       | DMTYPE2_COD | Codes for diabetes type 2 |
| 443694000                        | Type II diabetes mellitus uncontrolled (finding)                          | DMTYPE2_COD | Codes for diabetes type 2 |
| 445353002                        | Brittle type II diabetes mellitus (finding)                               | DMTYPE2_COD | Codes for diabetes type 2 |
| 703136005                        | Diabetes mellitus in remission (disorder)                                 | DMTYPE2_COD | Codes for diabetes type 2 |
| 703138006                        | Type II diabetes mellitus in remission (disorder)                         | DMTYPE2_COD | Codes for diabetes type 2 |

| PCD Refset ID 999003371000230102 |                             | DMRES_COD  |                         |
|----------------------------------|-----------------------------|------------|-------------------------|
| SNOMED code                      | SNOMED code description     | Cluster ID | Cluster description     |
| 315051004                        | Diabetes resolved (finding) | DMRES_COD  | Diabetes resolved codes |

Moderately Increased CVD Risk. Defined in Viso as:

Patients coded 'at risk of cardiovascular disease' OR 'High risk of cardiovascular disease' OR 'most recent CVDASS2\_COD score > 10%'

Moderately increased CVD risk marked present in Viso if patient coded 'at risk' or 'high risk' of CVD OR most recent CVD assessment score > 10%

Source: <https://isd.digital.nhs.uk/trud3/user/authenticated/group/0/pack/8/subpack/659/releases>  
Source: SNOMED CT UK Edition

| SNOMED CODE     | Description                         |
|-----------------|-------------------------------------|
| 845171000000108 | At risk of cardiovascular Disease   |
| 837461000000101 | High risk of cardiovascular disease |

| PCD Refset ID 999011011000230107 |                                                                                 | CVDASS2_COD |                                                    |
|----------------------------------|---------------------------------------------------------------------------------|-------------|----------------------------------------------------|
| SNOMED code                      | SNOMED code description                                                         | Cluster ID  | Cluster description                                |
| 763244005                        | QRISK cardiovascular disease 10 year risk calculator score (observable entity)  | CVDASS2_COD | Cardiovascular disease (CVD) risk assessment codes |
| 752451000000100                  | Cardiovascular disease risk assessment by third party (procedure)               | CVDASS2_COD | Cardiovascular disease (CVD) risk assessment codes |
| 718087004                        | QRISK2 cardiovascular disease 10 year risk score (observable entity)            | CVDASS2_COD | Cardiovascular disease (CVD) risk assessment codes |
| 450759008                        | Framingham coronary heart disease 10 year risk score (observable entity)        | CVDASS2_COD | Cardiovascular disease (CVD) risk assessment codes |
| 1085871000000105                 | QRISK3 cardiovascular disease 10 year risk calculator score (observable entity) | CVDASS2_COD | Cardiovascular disease (CVD) risk assessment codes |
| 809311000000105                  | Joint British Societies cardiovascular disease risk score (observable entity)   | CVDASS2_COD | Cardiovascular disease (CVD) risk assessment codes |

**CKD. Defined in Viso as:**

Patients coded with CKD that do not have a resolved CKD Code

CKD marked present in Viso if Patients have a CKD\_COD. Date of CKD\_COD or CKD1AND2\_COD that is more recent than CKDRES\_COD

Source: <https://isd.digital.nhs.uk/trud3/user/authenticated/group/0/pack/8/subpack/659/releases>

| PCD Refset ID   | 999004011000230108                                                                                         | CKD_COD    |                                              |
|-----------------|------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------|
| SNOMED code     | SNOMED code description                                                                                    | Cluster ID | Cluster description                          |
| 129151000119102 | Chronic kidney disease stage 4 due to hypertension (disorder)                                              | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 129161000119100 | Chronic kidney disease stage 5 due to hypertension (disorder)                                              | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 129171000119106 | Chronic kidney disease stage 3 due to hypertension (disorder)                                              | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 140101000119109 | Hypertension in chronic kidney disease stage 5 due to type 2 diabetes mellitus (disorder)                  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 140111000119107 | Hypertension in chronic kidney disease stage 4 due to type 2 diabetes mellitus (disorder)                  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 140121000119100 | Hypertension in chronic kidney disease stage 3 due to type 2 diabetes mellitus (disorder)                  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 153851000119106 | Malignant hypertensive chronic kidney disease stage 5 (disorder)                                           | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 284991000119104 | Chronic kidney disease stage 3 due to benign hypertension (disorder)                                       | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 285001000119105 | Chronic kidney disease stage 4 due to benign hypertension (disorder)                                       | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 285011000119108 | Chronic kidney disease stage 5 due to benign hypertension (disorder)                                       | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 285871000119106 | Malignant hypertensive chronic kidney disease stage 3 (disorder)                                           | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 285881000119109 | Malignant hypertensive chronic kidney disease stage 4 (disorder)                                           | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 324251000000105 | Chronic kidney disease stage 3 with proteinuria (disorder)                                                 | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 324281000000104 | Chronic kidney disease stage 3 without proteinuria (disorder)                                              | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 324311000000101 | Chronic kidney disease stage 3A with proteinuria (disorder)                                                | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 324341000000100 | Chronic kidney disease stage 3A without proteinuria (disorder)                                             | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 324371000000106 | Chronic kidney disease stage 3B with proteinuria (disorder)                                                | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 324411000000105 | Chronic kidney disease stage 3B without proteinuria (disorder)                                             | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 324441000000106 | Chronic kidney disease stage 4 with proteinuria (disorder)                                                 | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 324471000000100 | Chronic kidney disease stage 4 without proteinuria (disorder)                                              | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 324501000000107 | Chronic kidney disease stage 4 with proteinuria (disorder)                                                 | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 324541000000105 | Chronic kidney disease stage 5 without proteinuria (disorder)                                              | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 431857002       | Chronic kidney disease stage 4 (disorder)                                                                  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 433144002       | Chronic kidney disease stage 3 (disorder)                                                                  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 433146000       | Chronic kidney disease stage 5 (disorder)                                                                  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 691421000119108 | Anemia co-occurrent and due to chronic kidney disease stage 3 (disorder)                                   | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 700378005       | Chronic kidney disease stage 3A (disorder)                                                                 | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 700379002       | Chronic kidney disease stage 3B (disorder)                                                                 | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 711000119100    | Chronic kidney disease stage 5 due to type 2 diabetes mellitus (disorder)                                  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 714152005       | Chronic kidney disease stage 5 on dialysis (disorder)                                                      | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 714153000       | Chronic kidney disease stage 5 with transplant (disorder)                                                  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 721000119107    | Chronic kidney disease stage 4 due to type 2 diabetes mellitus (disorder)                                  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 731000119105    | Chronic kidney disease stage 3 due to type 2 diabetes mellitus (disorder)                                  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 90741000119107  | Chronic kidney disease stage 3 due to type 1 diabetes mellitus (disorder)                                  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 90751000119109  | Chronic kidney disease stage 4 due to type 1 diabetes mellitus (disorder)                                  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 90761000119106  | Chronic kidney disease stage 5 due to type 1 diabetes mellitus (disorder)                                  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 949881000000106 | Chronic kidney disease with glomerular filtration rate category G3a and albuminuria category A1 (disorder) | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 949901000000109 | Chronic kidney disease with glomerular filtration rate category G3a and albuminuria category A2 (disorder) | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 949921000000100 | Chronic kidney disease with glomerular filtration rate category G3a and albuminuria category A3 (disorder) | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 950061000000103 | Chronic kidney disease with glomerular filtration rate category G3b and albuminuria category A1 (disorder) | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 950081000000107 | Chronic kidney disease with glomerular filtration rate category G3b and albuminuria category A2 (disorder) | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 950101000000101 | Chronic kidney disease with glomerular filtration rate category G3b and albuminuria category A3 (disorder) | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 950181000000106 | Chronic kidney disease with glomerular filtration rate category G4 and albuminuria category A1 (disorder)  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 950211000000107 | Chronic kidney disease with glomerular filtration rate category G4 and albuminuria category A2 (disorder)  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 950231000000104 | Chronic kidney disease with glomerular filtration rate category G4 and albuminuria category A3 (disorder)  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 950251000000106 | Chronic kidney disease with glomerular filtration rate category G5 and albuminuria category A1 (disorder)  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 950291000000103 | Chronic kidney disease with glomerular filtration rate category G5 and albuminuria category A2 (disorder)  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 950311000000102 | Chronic kidney disease with glomerular filtration rate category G5 and albuminuria category A3 (disorder)  | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 96711000119105  | Hypertensive heart AND chronic kidney disease stage 5 (disorder)                                           | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 96721000119103  | Hypertensive heart AND chronic kidney disease stage 4 (disorder)                                           | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 96731000119100  | Hypertensive heart AND chronic kidney disease stage 3 (disorder)                                           | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 368461000119103 | Chronic kidney disease stage 5 due to drug induced diabetes mellitus (disorder)                            | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 368441000119102 | Chronic kidney disease stage 3 due to drug induced diabetes mellitus (disorder)                            | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |
| 368451000119100 | Chronic kidney disease stage 3 due to drug induced diabetes mellitus (disorder)                            | CKD_COD    | Chronic kidney disease (CKD) stage 3-5 codes |

| PCD Refset ID   | 999004051000230107                                                                                        | CKD1AND2_COD |                                              |
|-----------------|-----------------------------------------------------------------------------------------------------------|--------------|----------------------------------------------|
| SNOMED code     | SNOMED code description                                                                                   | Cluster ID   | Cluster description                          |
| 96751000119106  | Hypertensive heart AND chronic kidney disease stage 1 (disorder)                                          | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 96741000119109  | Hypertensive heart AND chronic kidney disease stage 2 (disorder)                                          | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 949621000000109 | Chronic kidney disease with glomerular filtration rate category G2 and albuminuria category A3 (disorder) | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 949561000000100 | Chronic kidney disease with glomerular filtration rate category G2 and albuminuria category A2 (disorder) | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 949521000000108 | Chronic kidney disease with glomerular filtration rate category G2 and albuminuria category A1 (disorder) | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 949481000000108 | Chronic kidney disease with glomerular filtration rate category G1 and albuminuria category A3 (disorder) | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 949421000000107 | Chronic kidney disease with glomerular filtration rate category G1 and albuminuria category A2 (disorder) | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 949401000000103 | Chronic kidney disease with glomerular filtration rate category G1 and albuminuria category A1 (disorder) | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 90731000119103  | Chronic kidney disease stage 2 due to type 1 diabetes mellitus (disorder)                                 | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 90721000119101  | Chronic kidney disease stage 1 due to type 1 diabetes mellitus (disorder)                                 | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 751000119104    | Chronic kidney disease stage 1 due to type 2 diabetes mellitus (disorder)                                 | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 741000119101    | Chronic kidney disease stage 2 due to type 2 diabetes mellitus (disorder)                                 | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 431856006       | Chronic kidney disease stage 2 (disorder)                                                                 | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 431855005       | Chronic kidney disease stage 1 (disorder)                                                                 | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 324211000000106 | Chronic kidney disease stage 2 without proteinuria (disorder)                                             | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 324181000000105 | Chronic kidney disease stage 2 with proteinuria (disorder)                                                | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 324151000000104 | Chronic kidney disease stage 1 without proteinuria (disorder)                                             | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 324121000000109 | Chronic kidney disease stage 1 with proteinuria (disorder)                                                | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 285861000119100 | Malignant hypertensive chronic kidney disease stage 2 (disorder)                                          | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 285851000119102 | Malignant hypertensive chronic kidney disease stage 1 (disorder)                                          | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 284981000119102 | Chronic kidney disease stage 2 due to benign hypertension (disorder)                                      | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 284971000119100 | Chronic kidney disease stage 1 due to benign hypertension (disorder)                                      | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 140131000119102 | Hypertension in chronic kidney disease stage 2 due to type 2 diabetes mellitus (disorder)                 | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 129181000119109 | Chronic kidney disease stage 2 due to hypertension (disorder)                                             | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 117681000119102 | Chronic kidney disease stage 1 due to hypertension (disorder)                                             | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 368431000119106 | Chronic kidney disease stage 2 due to drug induced diabetes mellitus (disorder)                           | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |
| 368421000119108 | Chronic kidney disease stage 1 due to drug induced diabetes mellitus (disorder)                           | CKD1AND2_COD | Chronic kidney disease (CKD) stage 1-2 codes |

| PCD Refset ID   | 999004171000230102                        | CKDRES_COD |                                             |
|-----------------|-------------------------------------------|------------|---------------------------------------------|
| SNOMED code     | SNOMED code description                   | Cluster ID | Cluster description                         |
| 939211000000104 | Chronic kidney disease resolved (finding) | CKDRES_COD | Chronic kidney disease (CKD) resolved codes |

**Type 1 Diabetes. Defined in Viso as**

Patients with a Diabetes Type 1 code that do not have a more recent Diabetes resolved code

Diabetes marked present in Viso if Patients have a DMTYPE1\_COD that is more recent than DMRES\_COD

Source: <https://isd.digital.nhs.uk/trud3/user/authenticated/group/0/pack/8/subpack/659/releases>

| PCD Refset ID   | 999015611000230103                                                         | DMTYPE1_COD |                           |
|-----------------|----------------------------------------------------------------------------|-------------|---------------------------|
| SNOMED code     | SNOMED code description                                                    | Cluster ID  | Cluster description       |
| 314771006       | Type I diabetes mellitus with hypoglycemic coma (disorder)                 | DMTYPE1_COD | Codes for type 1 diabetes |
| 401110002       | Type 1 diabetes mellitus with persistent microalbuminuria (disorder)       | DMTYPE1_COD | Codes for type 1 diabetes |
| 420486006       | Exudative maculopathy due to type 1 diabetes mellitus (disorder)           | DMTYPE1_COD | Codes for type 1 diabetes |
| 421165007       | Diabetic oculopathy associated with type I diabetes mellitus (disorder)    | DMTYPE1_COD | Codes for type 1 diabetes |
| 421920002       | Cataract of eye due to diabetes mellitus type 1 (disorder)                 | DMTYPE1_COD | Codes for type 1 diabetes |
| 422228004       | Multiple complications due to type 1 diabetes mellitus (disorder)          | DMTYPE1_COD | Codes for type 1 diabetes |
| 444073006       | Type I diabetes mellitus uncontrolled (finding)                            | DMTYPE1_COD | Codes for type 1 diabetes |
| 46635009        | Diabetes mellitus type 1 (disorder)                                        | DMTYPE1_COD | Codes for type 1 diabetes |
| 703137001       | Type I diabetes mellitus in remission (disorder)                           | DMTYPE1_COD | Codes for type 1 diabetes |
| 713702000       | Gastroparesis due to type 1 diabetes mellitus (disorder)                   | DMTYPE1_COD | Codes for type 1 diabetes |
| 739681000       | Disorder of eye due to type 1 diabetes mellitus (disorder)                 | DMTYPE1_COD | Codes for type 1 diabetes |
| 82581000119105  | Rubeosis iridis due to type 1 diabetes mellitus (disorder)                 | DMTYPE1_COD | Codes for type 1 diabetes |
| 190330002       | Hyperosmolar coma due to type 1 diabetes mellitus (disorder)               | DMTYPE1_COD | Codes for type 1 diabetes |
| 428896009       | Hyperosmolality due to uncontrolled type 1 diabetes mellitus (disorder)    | DMTYPE1_COD | Codes for type 1 diabetes |
| 789571005       | Ulcer of heel due to type 1 diabetes mellitus (disorder)                   | DMTYPE1_COD | Codes for type 1 diabetes |
| 789572003       | Ulcer of midfoot due to type 1 diabetes mellitus (disorder)                | DMTYPE1_COD | Codes for type 1 diabetes |
| 190368000       | Type I diabetes mellitus with ulcer (disorder)                             | DMTYPE1_COD | Codes for type 1 diabetes |
| 190369008       | Type I diabetes mellitus with gangrene (disorder)                          | DMTYPE1_COD | Codes for type 1 diabetes |
| 190372001       | Type I diabetes mellitus maturity onset (disorder)                         | DMTYPE1_COD | Codes for type 1 diabetes |
| 290002008       | Brittle type I diabetes mellitus (finding)                                 | DMTYPE1_COD | Codes for type 1 diabetes |
| 313435000       | Type I diabetes mellitus without complication (disorder)                   | DMTYPE1_COD | Codes for type 1 diabetes |
| 314893005       | Arthropathy due to type 1 diabetes mellitus (disorder)                     | DMTYPE1_COD | Codes for type 1 diabetes |
| 368561000119102 | Hyperosmolarity due to type 1 diabetes mellitus (disorder)                 | DMTYPE1_COD | Codes for type 1 diabetes |
| 420270002       | Ketoacidosis due to type 1 diabetes mellitus (disorder)                    | DMTYPE1_COD | Codes for type 1 diabetes |
| 420514000       | Persistent proteinuria due to type 1 diabetes mellitus (disorder)          | DMTYPE1_COD | Codes for type 1 diabetes |
| 420789003       | Retinopathy due to type 1 diabetes mellitus (disorder)                     | DMTYPE1_COD | Codes for type 1 diabetes |
| 420825003       | Gangrene due to type 1 diabetes mellitus (disorder)                        | DMTYPE1_COD | Codes for type 1 diabetes |
| 420918009       | Mononeuropathy due to type 1 diabetes mellitus (disorder)                  | DMTYPE1_COD | Codes for type 1 diabetes |
| 421075007       | Ketoacidotic coma due to type 1 diabetes mellitus (disorder)               | DMTYPE1_COD | Codes for type 1 diabetes |
| 421365002       | Peripheral circulatory disorder due to type 1 diabetes mellitus (disorder) | DMTYPE1_COD | Codes for type 1 diabetes |
| 421468001       | Disorder of nervous system due to type 1 diabetes mellitus (disorder)      | DMTYPE1_COD | Codes for type 1 diabetes |
| 421893009       | Renal disorder due to type 1 diabetes mellitus (disorder)                  | DMTYPE1_COD | Codes for type 1 diabetes |
| 426875007       | Latent autoimmune diabetes mellitus in adult (disorder)                    | DMTYPE1_COD | Codes for type 1 diabetes |
| 713705003       | Polyneuropathy due to type 1 diabetes mellitus (disorder)                  | DMTYPE1_COD | Codes for type 1 diabetes |
| 71771000119100  | Neuropathic arthropathy due to type 1 diabetes mellitus (disorder)         | DMTYPE1_COD | Codes for type 1 diabetes |
| 421305000       | Persistent microalbuminuria due to type 1 diabetes mellitus (disorder)     | DMTYPE1_COD | Codes for type 1 diabetes |
| 421437000       | Hypoglycemic coma due to type 1 diabetes mellitus                          | DMTYPE1_COD | Codes for type 1 diabetes |
| 368541000119101 | Cheiroarthropathy due to diabetes mellitus type 1 (disorder)               | DMTYPE1_COD | Codes for type 1 diabetes |

| PCD Refset ID | 999003371000230102          | DMRES_COD  |                         |
|---------------|-----------------------------|------------|-------------------------|
| SNOMED code   | SNOMED code description     | Cluster ID | Cluster description     |
| 315051004     | Diabetes resolved (finding) | DMRES_COD  | Diabetes resolved codes |

**Evidence of Heart Failure. Defined in Viso as**

Patients with a Heart Failure code that do not have a more recent Heart Failure resolved code

Evidence of Heart Failure marked present in Viso if: Patients have an HF\_COD. Date of HF\_COD is more recent than HFRES\_COD

Source:

<https://isd.digital.nhs.uk/trud3/user/authenticated/group/0/pack/8/subpack/659/releases>

| PCD Refset ID     |                                                                           | 999013691000230108 |                     | HF_COD |  |
|-------------------|---------------------------------------------------------------------------|--------------------|---------------------|--------|--|
| SNOMED code       | SNOMED code description                                                   | Cluster ID         | Cluster description |        |  |
| 10335000          | Chronic right-sided heart failure (disorder)                              | HF_COD             | Heart failure codes |        |  |
| 153941000119100   | Chronic combined systolic and diastolic heart failure (disorder)          | HF_COD             | Heart failure codes |        |  |
| 195112003         | Compensated cardiac failure (disorder)                                    | HF_COD             | Heart failure codes |        |  |
| 367363000         | Right ventricular failure (disorder)                                      | HF_COD             | Heart failure codes |        |  |
| 420300004         | New York Heart Association Classification - Class I (finding)             | HF_COD             | Heart failure codes |        |  |
| 420913000         | New York Heart Association Classification - Class III (finding)           | HF_COD             | Heart failure codes |        |  |
| 421704003         | New York Heart Association Classification - Class II (finding)            | HF_COD             | Heart failure codes |        |  |
| 422293003         | New York Heart Association Classification - Class IV (finding)            | HF_COD             | Heart failure codes |        |  |
| 426611007         | Congestive heart failure due to valvular disease (disorder)               | HF_COD             | Heart failure codes |        |  |
| 446221000         | Heart failure with normal ejection fraction (disorder)                    | HF_COD             | Heart failure codes |        |  |
| 48447003          | Chronic heart failure (disorder)                                          | HF_COD             | Heart failure codes |        |  |
| 56675007          | Acute heart failure (disorder)                                            | HF_COD             | Heart failure codes |        |  |
| 84114007          | Heart failure (disorder)                                                  | HF_COD             | Heart failure codes |        |  |
| 85232009          | Left heart failure (disorder)                                             | HF_COD             | Heart failure codes |        |  |
| 88805009          | Chronic congestive heart failure (disorder)                               | HF_COD             | Heart failure codes |        |  |
| 788950000         | Heart failure with mid range ejection fraction (disorder)                 | HF_COD             | Heart failure codes |        |  |
| 871617000         | Low output heart failure due to and following Fontan operation (disorder) | HF_COD             | Heart failure codes |        |  |
| 10633002          | Acute congestive heart failure (disorder)                                 | HF_COD             | Heart failure codes |        |  |
| 111283005         | Chronic left-sided heart failure (disorder)                               | HF_COD             | Heart failure codes |        |  |
| 128404006         | Right heart failure (disorder)                                            | HF_COD             | Heart failure codes |        |  |
| 195111005         | Decompensated cardiac failure (disorder)                                  | HF_COD             | Heart failure codes |        |  |
| 195114002         | Acute left ventricular failure (disorder)                                 | HF_COD             | Heart failure codes |        |  |
| 233924009         | Heart failure as a complication of care (disorder)                        | HF_COD             | Heart failure codes |        |  |
| 314206003         | Refractory heart failure (disorder)                                       | HF_COD             | Heart failure codes |        |  |
| 42343007          | Congestive heart failure (disorder)                                       | HF_COD             | Heart failure codes |        |  |
| 43736008          | Rheumatic left ventricular failure (disorder)                             | HF_COD             | Heart failure codes |        |  |
| 441481004         | Chronic systolic heart failure (disorder)                                 | HF_COD             | Heart failure codes |        |  |
| 441530006         | Chronic diastolic heart failure (disorder)                                | HF_COD             | Heart failure codes |        |  |
| 5375005           | Chronic left-sided congestive heart failure (disorder)                    | HF_COD             | Heart failure codes |        |  |
| 66989003          | Chronic right-sided congestive heart failure (disorder)                   | HF_COD             | Heart failure codes |        |  |
| 703272007         | Heart failure with reduced ejection fraction (disorder)                   | HF_COD             | Heart failure codes |        |  |
| 92506005          | Biventricular congestive heart failure (disorder)                         | HF_COD             | Heart failure codes |        |  |
| 16838951000119100 | Acute on chronic right-sided congestive heart failure (disorder)          | HF_COD             | Heart failure codes |        |  |
| 898208007         | Heart failure due to thyrotoxicosis (disorder)                            | HF_COD             | Heart failure codes |        |  |

  

| PCD Refset ID   |                                  | 999020411000230104 |                              | HFRES_COD |  |
|-----------------|----------------------------------|--------------------|------------------------------|-----------|--|
| Cluster ID      | Cluster description              | SNOMED code        | SNOMED code description      |           |  |
| 521691000000100 | Heart failure resolved (finding) | HFRES_COD          | Heart failure resolved codes |           |  |



**Multimorbidity. Defined in Viso as**

Any 2 of CKD, Type 1 diabetes, Evidence of Heart Failure, Type 2 diabetes, Established CVD

Multimorbidity marked present in Viso if Patient has any 2 of CKD, Type 1 diabetes, Evidence of Heart Failure, Type 2 diabetes, Established CVD as defined in previous pages

Frailty. Defined in Viso as:

Patients with a frailty finding code

Frailty marked present in Viso if patient coded any of the below codes

Source: SNOMED CT UK Edition

| SNOMED code | SNOMED code description |  |  |
|-------------|-------------------------|--|--|
| 248279007   | Frailty (finding)       |  |  |
| 404904002   | Frail elderly (finding) |  |  |

PCD Refset ID 999013531000230106 MILDFAIL\_COD

| SNOMED code     | SNOMED code description | Cluster ID   | Cluster description          |
|-----------------|-------------------------|--------------|------------------------------|
| 925791000000100 | Mild frailty (finding)  | MILDFAIL_COD | Mild frailty diagnosis codes |

PCD Refset ID 999013571000230108 MODFAIL\_COD

| SNOMED code     | SNOMED code description    | Cluster ID  | Cluster description              |
|-----------------|----------------------------|-------------|----------------------------------|
| 925831000000107 | Moderate frailty (finding) | MODFAIL_COD | Moderate frailty diagnosis codes |

PCD Refset ID 999012131000230109 SEVFAIL\_COD

| SNOMED code     | SNOMED code description  | Cluster ID  | Cluster description            |
|-----------------|--------------------------|-------------|--------------------------------|
| 925861000000102 | Severe frailty (finding) | SEVFAIL_COD | Severe frailty diagnosis codes |

**Postural Drop. Defined in Viso as:**

Patient coded for postural drop

Postural drop marked present in Viso if patient coded any of the below codes

Source: SNOMED CT UK Edition

| SNOMED code | SNOMED code description                                                        |
|-------------|--------------------------------------------------------------------------------|
| 163029008   | On examination - blood pressure reading: postural drop (finding)               |
| 271648003   | Postural drop in blood pressure (finding)                                      |
| 28651003    | Orthostatic Hypertension (Disorder)                                            |
| 75181005    | Chronic orthostatic hypotension (disorder)                                     |
| 84438001    | Pure autonomic failure (disorder)                                              |
| 61933008    | Hyperadrenergic postural hypotension (disorder)                                |
| 718685006   | Orthostatic hypotension co-occurrent and due to Parkinson's disease (disorder) |
| 735908000   | Postural hypotension following exercise (disorder)                             |
| 371073003   | Postural orthostatic tachycardia syndrome (disorder)                           |
| 230664009   | Sympathotonic orthostatic hypotension (disorder)                               |

## Lab Test Results

Source: SNOMED CT UK Edition

Test Set: Renal Profile

| SNOMED code      | SNOMED code description                                                                                          | Description in Viso                         |
|------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| 1000731000000107 | Serum creatinine level (observable entity)                                                                       | Serum Creatinine                            |
| 1000981000000109 | Corrected plasma creatinine level (observable entity)                                                            | Serum Creatinine                            |
| 1000991000000106 | Corrected serum creatinine level (observable entity)                                                             | Serum Creatinine                            |
| 1001011000000107 | Plasma creatinine level (observable entity)                                                                      | Serum Creatinine                            |
| 1106601000000100 | Substance concentration of creatinine in plasma (observable entity)                                              | Serum Creatinine                            |
| 1107001000000108 | Substance concentration of creatinine in serum (observable entity)                                               | Serum Creatinine                            |
| 1109421000000104 | Substance concentration of creatinine in plasma using colorimetric analysis (observable entity)                  | Serum Creatinine                            |
| 1109431000000102 | Substance concentration of creatinine in plasma using enzymatic analysis (observable entity)                     | Serum Creatinine                            |
| 1109441000000106 | Substance concentration of creatinine in serum using colorimetric analysis (observable entity)                   | Serum Creatinine                            |
| 1109451000000109 | Substance concentration of creatinine in serum using enzymatic analysis (observable entity)                      | Serum Creatinine                            |
| 53641000237107   | Corrected mass concentration of creatinine in plasma (observable entity)                                         | Serum Creatinine                            |
| 1011481000000105 | Estimated glomerular filtration rate using creatinine Chronic Kidney Disease Epidemiology Collaboration equation | eGFR (Estimated Glomerular Filtration Rate) |
| 1011491000000107 | Estimated glomerular filtration rate using cystatin C Chronic Kidney Disease Epidemiology Collaboration equation | eGFR (Estimated Glomerular Filtration Rate) |
| 1020291000000106 | Glomerular filtration rate calculated by abbreviated Modification of Diet in Renal Disease equation              | eGFR (Estimated Glomerular Filtration Rate) |
| 1107411000000104 | Estimated glomerular filtration rate by laboratory calculation (observable entity)                               | eGFR (Estimated Glomerular Filtration Rate) |
| 80274001         | Glomerular filtration rate (observable entity)                                                                   | eGFR (Estimated Glomerular Filtration Rate) |
| 857971000000104  | Estimated glomerular filtration rate using Chronic Kidney Disease Epidemiology Collaboration equation            | eGFR (Estimated Glomerular Filtration Rate) |
| 857981000000102  | Estimated glomerular filtration rate using Chronic Kidney Disease Epidemiology Collaboration equation            | eGFR (Estimated Glomerular Filtration Rate) |
| 963601000000106  | Estimated glomerular filtration rate using cystatin C Chronic Kidney Disease Epidemiology Collaboration equation | eGFR (Estimated Glomerular Filtration Rate) |
| 963611000000108  | Estimated glomerular filtration rate using cystatin C per 1.73 square metres                                     | eGFR (Estimated Glomerular Filtration Rate) |
| 963621000000102  | Estimated glomerular filtration rate using creatinine Chronic Kidney Disease Epidemiology Collaboration equation | eGFR (Estimated Glomerular Filtration Rate) |
| 963631000000100  | Estimated glomerular filtration rate using serum creatinine per 1.73 square metres                               | eGFR (Estimated Glomerular Filtration Rate) |
| 996231000000108  | Glomerular filtration rate calculated by abbreviated Modification of Diet in Renal Disease equation              | eGFR (Estimated Glomerular Filtration Rate) |
| 1000651000000109 | Serum potassium level (observable entity)                                                                        | Serum Potassium                             |
| 1012671000000103 | Blood potassium level (observable entity)                                                                        | Serum Potassium                             |
| 1017401000000106 | Plasma potassium level (observable entity)                                                                       | Serum Potassium                             |
| 1107751000000106 | Substance concentration of potassium in plasma (observable entity)                                               | Serum Potassium                             |
| 1107761000000109 | Substance concentration of potassium in serum (observable entity)                                                | Serum Potassium                             |
| 55701000237103   | Substance concentration of potassium in blood (observable entity)                                                | Serum Potassium                             |
| 1000661000000107 | Serum sodium level (observable entity)                                                                           | Sodium                                      |
| 1012681000000101 | Blood sodium level (observable entity)                                                                           | Sodium                                      |
| 1017381000000106 | Plasma sodium level (observable entity)                                                                          | Sodium                                      |
| 1020681000000107 | Sodium level (observable entity)                                                                                 | Sodium                                      |
| 1107861000000100 | Substance concentration of sodium in plasma (observable entity)                                                  | Sodium                                      |
| 1107871000000107 | Substance concentration of sodium in serum (observable entity)                                                   | Sodium                                      |
| 54381000237109   | Substance concentration of sodium in blood (observable entity)                                                   | Sodium                                      |
| 1000951000000103 | Serum urea level (observable entity)                                                                             | Blood Urea                                  |
| 1000961000000100 | Plasma urea level (observable entity)                                                                            | Blood Urea                                  |
| 1000971000000107 | Urea and electrolytes level (observable entity)                                                                  | Blood Urea                                  |
| 1028281000000106 | Blood urea (observable entity)                                                                                   | Blood Urea                                  |
| 1110271000000105 | Substance concentration of urea in plasma (observable entity)                                                    | Blood Urea                                  |
| 1110281000000107 | Substance concentration of urea in serum (observable entity)                                                     | Blood Urea                                  |
| 1023491000000104 | Urine albumin:creatinine ratio (observable entity)                                                               | ACR                                         |
| 1027791000000103 | Urine microalbumin/creatinine ratio (observable entity)                                                          | ACR                                         |
| 1028271000000109 | Albumin/creatinine ratio (observable entity)                                                                     | ACR                                         |
| 149861000000104  | Semi-quantitative result of albumin to creatinine ratio in urine by test strip (observable entity)               | ACR                                         |
| 1005691000000109 | Serum triglycerides level (observable entity)                                                                    | Triglycerides                               |
| 1010601000000105 | Plasma triglyceride level (observable entity)                                                                    | Triglycerides                               |
| 1026501000000104 | Serum random triglyceride level (observable entity)                                                              | Triglycerides                               |
| 1028871000000108 | Plasma random triglyceride level (observable entity)                                                             | Triglycerides                               |
| 1109821000000101 | Substance concentration of triglyceride in plasma (observable entity)                                            | Triglycerides                               |
| 1109831000000104 | Substance concentration of triglyceride in serum (observable entity)                                             | Triglycerides                               |
| 1461000237101    | Substance concentration of triglyceride in serum (observable entity)                                             | Triglycerides                               |
| 850991000000104  | Triglyceride level (observable entity)                                                                           | Triglycerides                               |
| 1031321000000109 | Plasma fasting triglyceride level (observable entity)                                                            | Fasting Triglycerides                       |
| 1026491000000105 | Serum fasting triglyceride level (observable entity)                                                             | Fasting Triglycerides                       |
| 1006191000000106 | Serum non high density lipoprotein cholesterol level (observable entity)                                         | Calculated non-HDL cholesterol              |
| 1030411000000101 | Non high density lipoprotein cholesterol level (observable entity)                                               | Calculated non-HDL cholesterol              |
| 1102851000000101 | Estimated serum non high density lipoprotein cholesterol level (observable entity)                               | Calculated non-HDL cholesterol              |
| 11451000237102   | Substance concentration of non-high density lipoprotein cholesterol in plasma (observable entity)                | Calculated non-HDL cholesterol              |
| 12021000237106   | Substance concentration of non-high density lipoprotein cholesterol in serum (observable entity)                 | Calculated non-HDL cholesterol              |
| 1010591000000104 | Plasma low density lipoprotein cholesterol level (observable entity)                                             | Calculated LDL cholesterol                  |
| 1014501000000104 | Calculated low density lipoprotein cholesterol level (observable entity)                                         | Calculated LDL cholesterol                  |
| 1022191000000100 | Serum low density lipoprotein cholesterol level (observable entity)                                              | Calculated LDL cholesterol                  |
| 1026471000000106 | Serum fasting low density lipoprotein cholesterol level (observable entity)                                      | Calculated LDL cholesterol                  |
| 1026481000000108 | Serum random low density lipoprotein cholesterol level (observable entity)                                       | Calculated LDL cholesterol                  |
| 1028851000000104 | Plasma random low density lipoprotein cholesterol level (observable entity)                                      | Calculated LDL cholesterol                  |
| 1028861000000101 | Plasma fasting low density lipoprotein cholesterol level (observable entity)                                     | Calculated LDL cholesterol                  |

Lab Tests Results

|                  |                                                                                                            |                            |
|------------------|------------------------------------------------------------------------------------------------------------|----------------------------|
| 1108541000000100 | Substance concentration of low density lipoprotein cholesterol in plasma (observable entity)               | Calculated LDL cholesterol |
| 1108551000000102 | Substance concentration of low density lipoprotein cholesterol in serum (observable entity)                | Calculated LDL cholesterol |
| 53981000237105   | Substance concentration of low density lipoprotein cholesterol in plasma (observable entity)               | Calculated LDL cholesterol |
| 55621000237101   | Substance concentration of low density lipoprotein cholesterol in serum (observable entity)                | Calculated LDL cholesterol |
| 1015681000000109 | Serum cholesterol/high density lipoprotein ratio (observable entity)                                       | Cholesterol:HDL ratio      |
| 1015691000000106 | Plasma cholesterol/high density lipoprotein ratio (observable entity)                                      | Cholesterol:HDL ratio      |
| 1028551000000102 | Total cholesterol:high density lipoprotein ratio (observable entity)                                       | Cholesterol:HDL ratio      |
| 1956121000000107 | Substance concentration ratio of cholesterol to high density lipoprotein in serum (observable entity)      | Cholesterol:HDL ratio      |
| 1976721000000109 | Substance concentration ratio of cholesterol to high density lipoprotein in plasma (observable entity)     | Cholesterol:HDL ratio      |
| 313811003        | Cholesterol/High density lipoprotein ratio measurement (procedure)                                         | Cholesterol:HDL ratio      |
| 1005681000000107 | Serum high density lipoprotein cholesterol level (observable entity)                                       | HDL cholesterol            |
| 1010581000000101 | Plasma high density lipoprotein cholesterol level (observable entity)                                      | HDL cholesterol            |
| 1026451000000102 | Serum fasting high density lipoprotein cholesterol level (observable entity)                               | HDL cholesterol            |
| 1026461000000104 | Serum random high density lipoprotein cholesterol level (observable entity)                                | HDL cholesterol            |
| 1028831000000106 | Plasma random high density lipoprotein cholesterol level (observable entity)                               | HDL cholesterol            |
| 1028841000000102 | Plasma fasting high density lipoprotein cholesterol level (observable entity)                              | HDL cholesterol            |
| 1107661000000104 | Substance concentration of high density lipoprotein cholesterol in plasma (observable entity)              | HDL cholesterol            |
| 1107681000000108 | Substance concentration of high density lipoprotein cholesterol in serum (observable entity)               | HDL cholesterol            |
| 1005671000000105 | Serum cholesterol level (observable entity)                                                                | Total cholesterol          |
| 1017161000000104 | Plasma total cholesterol level (observable entity)                                                         | Total cholesterol          |
| 1106531000000105 | Substance concentration of cholesterol in plasma (observable entity)                                       | Total cholesterol          |
| 1106541000000101 | Substance concentration of cholesterol in serum (observable entity)                                        | Total cholesterol          |
| 850981000000101  | Cholesterol level (observable entity)                                                                      | Total cholesterol          |
| 853681000000104  | Total cholesterol level (observable entity)                                                                | Total cholesterol          |
| 994351000000103  | Serum total cholesterol level (observable entity)                                                          | Total cholesterol          |
| 1049301000000100 | Haemoglobin A1c level (diagnostic reference range) - International Federation of Clinical Chemistry (IFCC) | HbA1c                      |
| 1049321000000109 | Haemoglobin A1c level (monitoring ranges) - International Federation of Clinical Chemistry (IFCC)          | HbA1c                      |
| 1107481000000106 | Substance concentration of haemoglobin A1c in blood (observable entity)                                    | HbA1c                      |
| 1971000237103    | Substance concentration of haemoglobin A1c diagnostic reference range in blood (observable entity)         | HbA1c                      |
| 6181000237109    | Substance concentration of haemoglobin A1c monitoring range in blood (observable entity)                   | HbA1c                      |
| 999791000000106  | Haemoglobin A1c level - International Federation of Clinical Chemistry and Laboratory Science (IFCC)       | HbA1c                      |
| 1083761000000106 | Serum fasting total cholesterol level (observable entity)                                                  | Total fasting cholesterol  |
|                  |                                                                                                            |                            |