December 2023

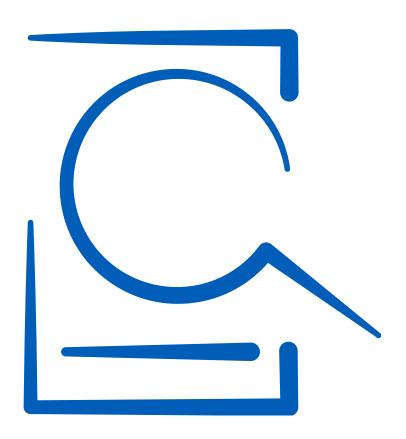# Evidence-based Interventions
Clinical coding for all interventions

For further information on the Evidence Based Interventions programme visit the EBI website. Or contact england.ebiinterventions@nhs.net.

Contents

Background

The EBI programme began as an NHS England (NHSE) initiative in 2018/19 – at its heart, it is a programme designed to tackle over-medicalisation by not offering, or reducing the number of tests, treatments and procedures which are of no or little clinical value.

NHSE and the Academy of Medical Royal Colleges lead the programme, with other partners including NICE, The Patients Association and NHS Confederation.

The programme uses the best available evidence to provide guidance on when it is and is not appropriate to carry out specific interventions.

— By not carrying out tests, treatments and procedures which are not clinically effective, the EBI programme improves the quality-of-care patients receive.
— It also helps us tackle the backlog by making sure patients aren't waiting for treatments that we know are unlikely to improve their condition or where other treatments are likely to have a better outcome.
— And crucially it enables us to make the best use of clinical time and NHS resources by ensuring those who most need care are seen and treated sooner.

The programme has published a suite of 58 interventions in total.

Coding Review

The EBI programme has commissioned a review of the clinical codes used for all interventions released in and before 2023. This work was undertaken by specialist clinical coders in MIAA who have provided clinical coding attached to each policy, including diagnoses and procedures related to the commissioning of a procedure, and any exceptions.

This has been produced using the International Statistical Classifications of Diseases and Related Health Problems, Tenth Revision, Fifth Edition (ICD-10 5th Edition) and the OPCS Classification of Interventions and Procedures, Fourth Revision, Tenth Edition (OPCS-4.10).

It also includes adhering to the national clinical coding standards published in the *National Clinical Coding Standards ICD-10 5th Edition (2022)* reference book and the *National Clinical Coding Standards OPCS-4 (2022)* reference book.

Removal of adenoids for treatment of glue ear

EBI recommendation

Adjuvant adenoidectomy should not be routinely performed in children undergoing grommet insertion for the treatment of otitis media with effusion.

Coding

Code Script

```
WHEN      apcs.der_procedure_all like '%E20[1489]%'
          AND apcs.der_procedure_all like '%D151%'
          AND der.Spell_Primary_Diagnosis like 'H65[2349]%'
          AND not (apcs.der_diagnosis_all like '%G473%'
                   OR apcs.der_diagnosis_all like '%J32[0123489]%'
                   OR apcs.der_diagnosis_all like '%J352%'
                   OR apcs.der_diagnosis_all like '%Q35[13579]%'
                   OR apcs.der_diagnosis_all like '%Q37[01234589]%')
          AND
          isnull(APCS.Age_At_Start_of_Spell_SUS,APCS.Der_Age_at_CDS
          _Activity_Date)<=18
          AND APCS.Admission_Method not like ('2%')
          THEN '2D_adenoid_removal'
```

Code Definitions

Procedure codes (OPCS)

Main

E201 Total adenoidectomy

E204 Suction diathermy adenoidectomy

E208 Other specified operations on adenoid

E209 Unspecified operations on adenoid

D151 Myringotomy with insertion of ventilation tube through tympanic membrane

(coded in addition to E20-)

Diagnosis codes (ICD)

Inclusion

H652 Chronic serous otitis media

H653 Chronic mucoid otitis media

H654 Other chronic nonsuppurative otitis media

H659 Nonsuppurative otitis media, unspecified

Exclusion

G473 Sleep apnoea

J320 Chronic maxillary sinusitis

J321 Chronic frontal sinusitis

J322 Chronic ethmoidal sinusitis

J323 Chronic sphenoidal sinusitis

J324 Chronic pansinusitis

J328 Other chronic sinusitis

J329 Chronic sinusitis, unspecified

J352 Hypertrophy of adenoids

Q351 Cleft hard palate

Q353 Cleft soft palate

Q355 Cleft hard palate with cleft soft palate

Q357 Cleft uvula

Q359 Cleft palate, unspecified

Q370 Cleft hard palate with bilateral cleft lip

Q371 Cleft hard palate with unilateral cleft lip

Q372 Cleft soft palate with bilateral cleft lip

Q373 Cleft soft palate with unilateral cleft lip

Q374 Cleft hard and soft palate with bilateral cleft lip

Q375 Cleft hard and soft palate with unilateral cleft lip

Q378 Unspecified cleft palate with bilateral cleft lip

Q379 Unspecified cleft palate with unilateral cleft lip

Potential

H661 Chronic tubotympanic suppurative otitis media

H662 Chronic atticoantral suppurative otitis media

H663 Other chronic suppurative otitis media

H664 Suppurative otitis media, unspecified

H669 Otitis media, unspecified

H670 Otitis media in bacterial diseases classified elsewhere

H671 Otitis media in viral diseases classified elsewhere

H678 Otitis media in other diseases classified elsewhere

H681 Obstruction of Eustachian tube

H698 Other specified disorders of Eustachian tube

H699 Eustachian tube disorder, unspecified

Additional Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Angioplasty for PCI (percutaneous coronary intervention) in stable angina

EBI recommendation

PCI should only be performed in patients with stable angina that fulfil these criteria, after optimisation of medication. Patients should be properly consented with documented shared decision making.

Coding

Code script

Inpatient

```
WHEN     LEFT(der.Spell_Dominant_Procedure,4) IN ('K491', 'K492', 'K493',
'K494', 'K498', 'K499', 'K504', 'K751', 'K752', 'K753','K754', 'K758', 'K759')
          AND ( APCS.Der_Diagnosis_All LIKE '%I20[89]%')
          AND (NOT (      APCS.Der_Diagnosis_All LIKE '%I50[01]%'
                    OR    APCS.Der_Diagnosis_All LIKE '%I518%')
          OR APCS.Der_Diagnosis_All IS NULL )
          THEN '3G_Angioplasty_PCI'
```

Outpatient

```
WHEN     (      OPA.Der_Procedure_All LIKE '%K49[123489]%'
          OR    OPA.Der_Procedure_All LIKE '%K504%'
          OR OPA.Der_Procedure_All LIKE '%K75[123489]%')
          AND (NOT (      OPA.Der_Diagnosis_All LIKE '%I50[01]%'
                    OR    OPA.Der_Diagnosis_All LIKE '%I518%')
          OR OPA.Der_Diagnosis_All IS NULL )
          THEN '3G_Angioplasty_PCI'
```

Code Definitions

Procedure codes (OPCS)

K491 Percutaneous transluminal balloon angioplasty of one coronary artery

K492 Percutaneous transluminal balloon angioplasty of multiple coronary arteries

K493 Percutaneous transluminal balloon angioplasty of bypass graft of coronary artery

K494 Percutaneous transluminal cutting balloon angioplasty of coronary artery

K498 Other specified transluminal balloon angioplasty of coronary artery

K499 Unspecified transluminal balloon angioplasty of coronary artery

K504 Percutaneous transluminal atherectomy of coronary artery

K751 Percutaneous transluminal balloon angioplasty and insertion of 1-2 drug-eluting stents into coronary artery

K752 Percutaneous transluminal balloon angioplasty and insertion of 3 or more drug-eluting stents into coronary artery

K753 Percutaneous transluminal balloon angioplasty and insertion of 1-2 stents into coronary artery

K754 Percutaneous transluminal balloon angioplasty and insertion of 3 or more stents into coronary artery NEC

K758 Other specified percutaneous transluminal balloon angioplasty and insertion of stent into coronary artery

K759 Unspecified percutaneous transluminal balloon angioplasty and insertion of stent into coronary artery

Diagnosis codes (ICD)

Inclusion

I208 Other forms of angina pectoris

I209 Angina pectoris, unspecified

Exclusion

I500 Congestive heart failure

I501 Left ventricular failure

I518 Other ill-defined heart diseases

No code specifically for left ventricular systolic dysfunction - SNOMED CT maps to I518 but local policies could include I500 and I501. Should be excluded as a secondary diagnosis.

I251 Atherosclerotic heart disease

Additional Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120
for adults.

--Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Appendicectomy without confirmation of appendicitis

EBI recommendation

Recent studies have shown there is a potential role for non-operative management of acute appendicitis, imaging can help identify which patients could be managed conservatively.

Coding

Code Script

```
WHEN      LEFT(Der.spell_dominant_procedure,4) in
('H011','H012','H013','H018','H019')
            AND not (apcs.der_diagnosis_all like '%K35[238]%'
                  OR apcs.der_diagnosis_all like '%K3[67]%')
            THEN '2R_CTappendicitis'
```

Code Definitions

Procedure codes (OPCS)

H011 Emergency excision of abnormal appendix and drainage HFQ

H012 Emergency excision of abnormal appendix NEC

H013 Emergency excision of normal appendix

H018 Other specified emergency excision of appendix

H019 Unspecified emergency excision of appendix

H011 Emergency excision of abnormal appendix and drainage HFQ

H012 Emergency excision of abnormal appendix NEC

H013 Emergency excision of normal appendix

H018 Other specified emergency excision of appendix

H019 Unspecified emergency excision of appendix

Diagnosis codes (ICD)

Exclusion

K352 Acute appendicitis with generalized peritonitis

K353 Acute appendicitis with localized peritonitis

K358 Acute appendicitis, other and unspecified

K36X Other appendicitis

K37X Unspecified appendicitis

Additional Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

--Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

MRI scan of the hip for arthritis

EBI recommendation

Do not request a hip MRI when the clinical presentation (history and examination) and X-rays demonstrate typical features of OA. MRI scans rarely add useful information to guide diagnosis or treatment.

Coding

Code Script

```
WHEN       ( (opa.Der_Procedure_All like '%U133%'
                    OR opa.Der_Procedure_All like '%U211%')
           AND (opa.Der_Procedure_All like '%Z84[389]%'
                    OR opa.Der_Procedure_All like '%Z902%') )
           AND (not (      opa.der_diagnosis_all like '%M00[01289]%'
                    OR opa.der_diagnosis_all like '%M01[01234568]%'
                    OR opa.der_diagnosis_all like '%M0[25][012389]%'
                    OR opa.der_diagnosis_all like '%M03[0126]%' OR
                    opa.der_diagnosis_all like '%M0[68][0123489]%'
                    OR opa.der_diagnosis_all like '%M07[0-6]%' OR
                    opa.der_diagnosis_all like '%M09[0128]%'
                    OR opa.der_diagnosis_all like '%M10[012349]%' OR
                    opa.der_diagnosis_all like '%M11[01289]%'
                    OR opa.der_diagnosis_all like '%M12[0123458]%' OR
                    opa.der_diagnosis_all like '%M13[0189]%'
                    OR opa.der_diagnosis_all like '%M14[01234568]%'
                    OR opa.der_diagnosis_all like '%M15[12348]%'
                    OR opa.der_diagnosis_all like '%M16[234567]%' OR
                    opa.der_diagnosis_all like '%M17[0123459]%'
                    OR opa.der_diagnosis_all like '%C40[289]%' OR
                    opa.der_diagnosis_all like '%C7[69]5%'
                    OR opa.der_diagnosis_all like '%D162%')
           OR opa.der_diagnosis_all IS NULL)
```

AND
ISNULL(opa.Age_at_Start_of_Episode_SUS,opa.Der_Age_at_CD
S_Activity_Date) between 19 AND 120
THEN '2X_hip_MRI'

Code Definitions

Procedure codes (OPCS)

U133 Magnetic resonance imaging of bone

U211 Magnetic resonance imaging NEC

Z843 Hip joint

Z848 Specified joint of pelvis or upper leg NEC*

Z849 Joint of pelvis or upper leg NEC*

Z902 Hip NEC*

* Secondary to U code

Diagnosis codes (ICD)

Inclusion

M150 Primary generalized (osteo)arthrosis

M159 Polyarthrosis, unspecified

M160 Primary coxarthrosis, bilateral

M161 Other primary coxarthrosis

M169 Coxarthrosis, unspecified

Exclusion

M000 Staphylococcal arthritis and polyarthritis

M001 Pneumococcal arthritis and polyarthritis

M002 Other streptococcal arthritis and polyarthritis

M008 Arthritis and polyarthritis due to other specified bacterial agents

M009 Pyogenic arthritis, unspecified

M010 Meningococcal arthritis

M011 Tuberculous arthritis

M012 Arthritis in Lyme disease

M013 Arthritis in other bacterial diseases classified elsewhere

M014 Rubella arthritis

M015 Arthritis in other viral diseases classified elsewhere

M016 Arthritis in mycoses

M018 Arthritis in other infectious and parasitic diseases classified elsewhere

M020 Arthropathy following intestinal bypass

M021 Postdysenteric arthropathy

M022 Postimmunization arthropathy

M023 Reiter disease

M028 Other reactive arthropathies

M029 Reactive arthropathy, unspecified

M030 Postmeningococcal arthritis

M031 Postinfective arthropathy in syphilis

M032 Other postinfectious arthropathies in diseases classified elsewhere

M036 Reactive arthropathy in other diseases classified elsewhere

M050 Felty syndrome

M051 Rheumatoid lung disease

M052 Rheumatoid vasculitis

M053 Rheumatoid arthritis with involvement of other organs and systems

M058 Other seropositive rheumatoid arthritis

M059 Seropositive rheumatoid arthritis, unspecified

M060 Seronegative rheumatoid arthritis

M061 Adult-onset Still disease

M062 Rheumatoid bursitis

M063 Rheumatoid nodule

M064 Inflammatory polyarthropathy

M068 Other specified rheumatoid arthritis

M069 Rheumatoid arthritis, unspecified

M070 Distal interphalangeal psoriatic arthropathy

M071 Arthritis mutilans

M072 Psoriatic spondylitis

M073 Other psoriatic arthropathies

M074 Arthropathy in Crohn disease [regional enteritis]

M075 Arthropathy in ulcerative colitis

M076 Other enteropathic arthropathies

M080 Juvenile rheumatoid arthritis

M081 Juvenile ankylosing spondylitis

M082 Juvenile arthritis with systemic onset

M083 Juvenile polyarthritis (seronegative)

M084 Pauciarticular juvenile arthritis

M088 Other juvenile arthritis

M089 Juvenile arthritis, unspecified

M090 Juvenile arthritis in psoriasis

M091 Juvenile arthritis in Crohn disease [regional enteritis]

M092 Juvenile arthritis in ulcerative colitis

M098 Juvenile arthritis in other diseases classified elsewhere

M100 Idiopathic gout

M101 Lead-induced gout

M102 Drug-induced gout

M103 Gout due to impairment of renal function

M104 Other secondary gout

M109 Gout, unspecified

M110 Hydroxyapatite deposition disease

M111 Familial chondrocalcinosis

M112 Other chondrocalcinosis

M118 Other specied crystal arthropathies

M119 Crystal arthropathy, unspecified

M120 Chronic postrheumatic arthropathy [Jaccoud]

M121 Kaschin-Beck disease

M122 Villonodular synovitis (pigmented)

M123 Palindromic rheumatism

M124 Intermittent hydrarthrosis

M125 Traumatic arthropathy

M128 Other specific arthropathies, not elsewhere classified

M130 Polyarthritis, unspecified

M131 Monoarthritis, not elsewhere classified

M138 Other specified arthritis

M139 Arthritis, unspecified

M140 Gouty arthropathy due to enzyme defects and other inherited disorders

M141 Crystal arthropathy in other metabolic disorders

M142 Diabetic arthropathy

M143 Lipoid dermatoarthritis

M144 Arthropathy in amyloidosis

M145 Arthropathies in other endocrine, nutritional and metabolic disorders

M146 Neuropathic arthropathy

M148 Arthropathies in other specified diseases classified elsewhere

M151 Heberden nodes (with arthropathy)

M152 Bouchard nodes (with arthropathy)

M153 Secondary multiple arthrosis

M154 Erosive (osteo)arthrosis

M158 Other polyarthrosis

M162 Coxarthrosis resulting from dysplasia, bilateral

M163 Other dysplastic coxarthrosis

M164 Post-traumatic coxarthrosis, bilateral

M165 Other post-traumatic coxarthrosis

M166 Other secondary coxarthrosis, bilateral

M167 Other secondary coxarthrosis

M170 Primary gonarthrosis, bilateral

M171 Other primary gonarthrosis

M172 Post-traumatic gonarthrosis, bilateral

M173 Other post-traumatic gonarthrosis

M174 Other secondary gonarthrosis, bilateral

M175 Other secondary gonarthrosis

M179 Gonarthrosis, unspecified

C402 Malignant neoplasm: Long bones of lower limb

C408 Malignant neoplasm: Overlapping lesion of bone and articular cartilage of limbs

C409 Malignant neoplasm: Bone and articular cartilage of limb, unspecified

C765 Malignant neoplasm of other and ill-defined sites: Lower limb

C795 Secondary malignant neoplasm of bone and bone marrow

D162 Benign neoplasm: Long bones of lower limb

Additional Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and
apcs.der_diagnosis_all not like '%D0%' and
apcs.der_diagnosis_all not like '%D3[789]%' and
apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120
for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Low back pain imaging

EBI recommendation

Do not routinely offer imaging in a non-specialist setting for people with low back pain with or without sciatica in the absence of red flags, or suspected serious underlying pathology following medical history and examination.

Coding

Code Script

```
WHEN      (opa.Der_Procedure_All like '%U05[45]%'
          OR   ( (opa.Der_Procedure_All like '%U13[2356]%'
                  OR opa.Der_Procedure_All like '%U21[1267]%')
          AND (opa.Der_Procedure_All like '%Z665%'
                  OR opa.Der_Procedure_All like '%O162%') ) )
          AND
          ISNULL(opa.Age_at_Start_of_Episode_SUS,opa.Der_Age_at_CD
          S_Activity_Date) between 19 AND 120
          THEN '2S_lower_back_imaging'
```

Code Definitions

Procedure codes (OPCS)

U054 Computed tomography of spine

U055 Magnetic resonance imaging of spine

U132 Ultrasound of bone

U133 Magnetic resonance imaging of bone

U135 Plain x-ray of bone

U136 Computed tomography of bone

U211 Magnetic resonance imaging NEC

U212 Computed tomography NEC

U216 Ultrasound scan NEC

U217 Plain x-ray NEC

Z665 Lumbar vertebra (secondary to one of the codes above)

O162 Spine NEC (secondary to one of the codes above)

Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Injection for non-specific low back pain without sciatica

EBI recommendation

Spinal injections of local anaesthetic and steroid should not be offered for patients with non-specific low back pain.

Coding

Code script

WHEN   LEFT(der.Spell_Dominant_Procedure,4) in ('A521','A522','A528','A529','A577','A735','V544')

            AND LEFT(der.spell_primary_diagnosis,4) in ('M545')
            AND APCS.Admission_Method not like ('2%')
            THEN 'D_low_back_pain_inj'

Code Definitions

Procedure codes (OPCS)

Main

A521 Therapeutic lumbar epidural injection

A522 Therapeutic sacral epidural injection

A528 Other specified therapeutic epidural injection

A529 Unspecified therapeutic epidural injection

A577 Injection of therapeutic substance around spinal nerve root

A735 Injection of therapeutic substance around peripheral nerve

V544 Injection around spinal facet of spine

Potential

W903 Injection of therapeutic substance into joint (shouldn't be used but may be as workaround with *Z66 Vertebra* or *Z67 Intervertebral joint*)

V528 Other specified other operations on intervertebral disc(plus Y388 Other specified injection of therapeutic substance into organ NOC or Y389 Unspecified injection of therapeutic substance into organ NOC)

V484   Denervation of spinal facet joint of thoracic vertebra NEC

V486   Denervation of spinal facet joint of lumbar vertebra NEC

V488   Other specified denervation of spinal facet joint of vertebra

V489   Unspecified denervation of spinal facet joint of vertebra

Diagnosis codes (ICD)

Includes

M545 Low back pain

Potential

M546 Pain in thoracic spine

M548 Other dorsalgia

M549 Dorsalgia, unspecified

Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120
for adults.

--Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Referral for bariatric surgery

EBI recommendation

Evidence shows that when commissioned as recommended, surgery is highly effective in causing weight loss, reduces the long-term impact of poor health and reduces the risk of premature death from obesity-related conditions. This proposed guidance establishes criteria for referral of a patient to a bariatric surgical centre for consideration of performing a bariatric surgical procedure.

Coding

Code script

Inpatient

WHEN   LEFT(der.Spell_Dominant_Procedure,4) IN ('G281', 'G282', 'G283', 'G284', 'G285', 'G301', 'G302', 'G303', 'G304', 'G321', 'G328', 'G329', 'G331', 'G338', 'G339')

          AND (APCS.Der_Diagnosis_All LIKE '%E66[01289]%')
          AND APCS.Admission_Method NOT LIKE '2%'
          THEN '3F_Bariatric_Surgery'

Code Definitions

Procedure codes (OPCS)

G281 Partial gastrectomy and anastomosis of stomach to duodenum

G282 Partial gastrectomy and anastomosis of stomach to transposed jejunum

G283 Partial gastrectomy and anastomosis of stomach to jejunum NEC

G301 Gastroplasty NEC

G321 Bypass of stomach by anastomosis of stomach to transposed jejunum

G328 Other specified connection of stomach to transposed jejunum

G329 Unspecified connection of stomach to transposed jejunum

G331 Bypass of stomach by anastomosis of stomach to jejunum NEC

G338 Other specified other connection of stomach to jejunum

G339 Unspecified other connection of stomach to jejunum

G284 Sleeve gastrectomy and duodenal switch

G285 Sleeve gastrectomy NEC

G302 Partitioning of stomach NEC

G304 Partitioning of stomach using staples

G303 Partitioning of stomach using band

Diagnosis codes (ICD)

Inclusion

E660 Obesity due to excess calories

E661 Drug-induced obesity

E662 Extreme obesity with alveolar hypoventilation

E668 Other obesity

E669 Obesity, unspecified

There is no standard for BMI used as a diagnosis but often trusts will have local policies, e.g. >30 - 39 = E669, 40> = E668). Should be excluded as a secondary diagnosis.

Included in policy

E110 Type 2 diabetes mellitus - With coma

E111 Type 2 diabetes mellitus - With ketoacidosis

E112 Type 2 diabetes mellitus - With renal complications

E113 Type 2 diabetes mellitus - With ophthalmic complications

E114 Type 2 diabetes mellitus - With neurological complications

E115 Type 2 diabetes mellitus - With peripheral circulatory complications

E116 Type 2 diabetes mellitus - With other specified complications

E117 Type 2 diabetes mellitus - With multiple complications

E118 Type 2 diabetes mellitus - With unspecified complications

E119 Type 2 diabetes mellitus - Without complications

G473 Sleep apnoea

I10X Essential (primary) hypertension

I110 Hypertensive heart disease with (congestive) heart failure

I119 Hypertensive heart disease without (congestive) heart failure

I120 Hypertensive renal disease with renal failure

I129 Hypertensive renal disease without renal failure

I130 Hypertensive heart and renal disease with (congestive) heart failure

I131 Hypertensive heart and renal disease with renal failure

I132 Hypertensive heart and renal disease with both (congestive) heart failure and renal failure

I139   Hypertensive heart and renal disease, unspecified

I150   Renovascular hypertension

I151   Hypertension secondary to other renal disorders

I152   Hypertension secondary to endocrine disorders

I158   Other secondary hypertension

I159   Secondary hypertension, unspecified

All may be present as a secondary.

Additional Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Blood transfusion

EBI recommendation

A blood transfusion may be indicated if a patient has a shortage of red blood cells (RBC) causing haemodynamic instability or impeding oxygen delivery to tissues and organs. This can be for a variety of reasons including severe bleeding, cancer or a blood disorder. However, blood transfusion carries risks and only the minimum number of units should be transfused to avoid harm. It is recommended to use restrictive thresholds for transfusion, and to give only a single unit at a time, except where the patient has active bleeding.

Coding

Code Script

Inpatient

```
WHEN      LEFT(der.Spell_Dominant_Procedure,4) in
('X331','X332','X338','X339')
          AND (apcs.der_diagnosis_all like '%D5[02][0189]%'
                OR apcs.der_diagnosis_all like '%D51[012389]%')
          AND not (apcs.der_diagnosis_all like '%D5[38][01289]%'
                OR apcs.der_diagnosis_all like '%D55[012389]%'
                OR apcs.der_diagnosis_all like '%D56[0123489]%'
                OR apcs.der_diagnosis_all like '%D57[01238]%'
                OR apcs.der_diagnosis_all like '%D59[012345689]%'
                OR apcs.der_diagnosis_all like '%D60[0189]%'
                OR apcs.der_diagnosis_all like '%D61[012389]%'
                OR apcs.der_diagnosis_all like '%D62%'
                OR apcs.der_diagnosis_all like '%D63[08]%'
                OR apcs.der_diagnosis_all like '%D64[0123489]%')
          THEN 'EE_blood_transfusion'
```

Outpatient

```
WHEN      LEFT(OPA.Der_Procedure_All,4) in ('X331','X332','X338','X339')
          AND (not (OPA.der_diagnosis_all LIKE '%D5[38][01289]%'
```

OR OPA.der_diagnosis_all LIKE '%D55[012389]%'

OR OPA.der_diagnosis_all LIKE '%D56[0123489]%'

OR OPA.der_diagnosis_all LIKE '%D57[01238]%'

OR OPA.der_diagnosis_all LIKE '%D59[012345689]%'

OR OPA.der_diagnosis_all LIKE '%D60[0189]%'

OR OPA.der_diagnosis_all LIKE '%D61[012389]%'

OR OPA.der_diagnosis_all LIKE '%D62%'

OR OPA.der_diagnosis_all LIKE '%D63[08]%'

OR OPA.der_diagnosis_all LIKE '%D64[0123489]%')

OR OPA.der_diagnosis_all IS NULL)

THEN 'proc_32_blood_transfusion'

Code Definitions

Procedure codes (OPCS)

X331 Intra-arterial blood transfusion

X332 Intravenous blood transfusion of packed cells

X338 Other specified other blood transfusion

X339 Unspecified other blood transfusion

Diagnosis codes (ICD):

Inclusion

D500 Iron deficiency anaemia secondary to blood loss (chronic)

D501 Sideropenic dysphagia

D508 Other iron deficiency anaemias

D509 Iron deficiency anaemia, unspecified

D510 Vitamin B_{12} deficiency anaemia due to intrinsic factor deficiency

D511 Vitamin B_{12} deficiency anaemia due to selective vitamin B_{12} malabsorption with proteinuria

D512 Transcobalamin II deficiency

D513 Other dietary vitamin B_{12} deficiency anaemia

D518 Other vitamin B_{12} deficiency anaemias

D519 Vitamin B_{12} deficiency anaemia, unspecified

D520 Dietary folate deficiency anaemia

D521 Drug-induced folate deficiency anaemia

D528 Other folate deficiency anaemias

D529 Folate deficiency anaemia, unspecified

Diagnosis codes (ICD)

Exclusion

D530 Protein deficiency anaemia

D531 Other megaloblastic anaemias, not elsewhere classified

D532 Scorbutic anaemia

D538 Other specified nutritional anaemias

D539 Nutritional anaemia, unspecified

D550 Anaemia due to glucose-6-phosphate dehydrogenase [G6PD] deficiency

D551 Anaemia due to other disorders of glutathione metabolism

D552 Anaemia due to disorders of glycolytic enzymes

D553 Anaemia due to disorders of nucleotide metabolism

D558 Other anaemias due to enzyme disorders

D559 Anaemia due to enzyme disorder, unspecified

D560 Alpha thalassaemia

D561 Beta thalassaemia

D562 Delta-beta thalassaemia

D563 Thalassaemia trait

D564 Hereditary persistence of fetal haemoglobin [HPFH]

D568 Other thalassaemias

D569 Thalassaemia, unspecified

D570 Sickle-cell anaemia with crisis

D571 Sickle-cell anaemia without crisis

D572 Double heterozygous sickling disorders

D573 Sickle-cell trait

D578 Other sickle-cell disorders

D580 Hereditary spherocytosis

D581 Hereditary elliptocytosis

D582 Other haemoglobinopathies

D588 Other specified hereditary haemolytic anaemias

D589 Hereditary haemolytic anaemia, unspecified

D590 Drug-induced autoimmune haemolytic anaemia

D591 Other autoimmune haemolytic anaemias

D592 Drug-induced nonautoimmune haemolytic anaemia

D593 Haemolytic-uraemic syndrome

D594 Other nonautoimmune haemolytic anaemias

D595 Paroxysmal nocturnal haemoglobinuria [Marchiafava-Micheli]

D596 Haemoglobinuria due to haemolysis from other external causes

D598 Other acquired haemolytic anaemias

D599 Acquired haemolytic anaemia, unspecified

D600 Chronic acquired pure red cell aplasia

D601 Transient acquired pure red cell aplasia

D608 Other acquired pure red cell aplasias

D609 Acquired pure red cell aplasia, unspecified

D610 Constitutional aplastic anaemia

D611 Drug-induced aplastic anaemia

D612 Aplastic anaemia due to other external agents

D613 Idiopathic aplastic anaemia

D618 Other specified aplastic anaemias

D619 Aplastic anaemia, unspecified

D62X Acute posthaemorrhagic anaemia

D630 Anaemia in neoplastic disease

D638 Anaemia in other chronic diseases classified elsewhere

D640 Hereditary sideroblastic anaemia

D641 Secondary sideroblastic anaemia due to disease

D642 Secondary sideroblastic anaemia due to drugs and   toxins

D643 Other sideroblastic anaemias

D644 Congenital dyserythropoietic anaemia

D648 Other specified anaemias

D649 Anaemia, unspecified

Additional Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120
for adults.

--Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Surgical intervention for benign prostatic hyperplasia

EBI recommendation

Only men with severe voiding symptoms, or in whom conservative management options and drug treatment have been unsuccessful, should be offered surgical intervention.

Coding

Code Script

```
WHEN    ( LEFT(der.Spell_Dominant_Procedure,4) like '%M61[123489]%'
        OR LEFT(der.Spell_Dominant_Procedure,4) like '%M641%'
        OR LEFT(der.Spell_Dominant_Procedure,4) like
        '%M65[12345689]%'
        OR LEFT(der.Spell_Dominant_Procedure,4) like '%M66[12]%'
                OR LEFT(der.Spell_Dominant_Procedure,4) like
                '%M68[13]%'
        OR LEFT(der.Spell_Dominant_Procedure,4) like '%M704%'
        OR LEFT(der.Spell_Dominant_Procedure,4) like '%M71[189]%')
        AND der.Spell_Primary_Diagnosis like '%N40%'
        AND not (apcs.der_diagnosis_all like '%C61%'
                OR apcs.der_diagnosis_all like '%N13[0-9]%'
                OR apcs.der_diagnosis_all like '%N17[01289]%'
                OR apcs.der_diagnosis_all like '%N18[123459]%'
                OR apcs.der_diagnosis_all like '%N19%')
        AND apcs.sex=1
        AND
        isnull(APCS.Age_At_Start_of_Spell_SUS,APCS.Der_Age_at_CDS
        _Activity_Date) between 19 AND 120
        AND APCS.Admission_Method not like ('2%')
        THEN '2I_BPH_surgery'
```

Code Definitions

Procedure codes (OPCS)

Main

M611 Total excision of prostate and capsule of prostate

M612 Retropubic prostatectomy

M613 Transvesical prostatectomy

M614 Perineal prostatectomy

M618 Other specified open excision of prostate

M619 Unspecified open excision of prostate

M641 Open resection of outlet of male bladder

M651 Endoscopic resection of prostate using electrotome

M652 Endoscopic resection of prostate using punch

M653 Endoscopic resection of prostate NEC

M654 Endoscopic resection of prostate using laser

M655 Endoscopic resection of prostate using vapotrode

M656 Endoscopic ablation of prostate using steam

M658 Other specified endoscopic resection of outlet of male bladder

M659 Unspecified endoscopic resection of outlet of male bladder

M661 Endoscopic sphincterotomy of external sphincter of male bladder

M662 Endoscopic incision of outlet of male bladder NEC

M681 Endoscopic insertion of prostatic stent

M683 Endoscopic insertion of prosthesis to compress lobe of prostate

M704 Balloon dilation of prostate

M711 High intensity focused ultrasound of prostate

M718 Other specified other operations on prostate

M719 Unspecified other operations on prostate

Diagnosis codes (ICD)

Inclusion

N40X Hyperplasia of prostate

Exclusion

C61X Malignant neoplasm of prostate

N130 Hydronephrosis with ureteropelvic junction obstruction (with N40X)

N131 Hydronephrosis with ureteral stricture, not elsewhere classified (with N40X)

N132 Hydronephrosis with renal and ureteral calculous obstruction (with N40X)

N133 Other and unspecified hydronephrosis (with N40X)

N134 Hydroureter (with N40X)

N135 Kinking and stricture of ureter without hydronephrosis (with N40X)

N136 Pyonephrosis (with N40X)

N137 Vesicoureteral-reflux-associated uropathy (with N40X)

N138 Other obstructive and reflux uropathy (with N40X)

N139 Obstructive and reflux uropathy, unspecified (with N40X)

N170 Acute renal failure with tubular necrosis

N171 Acute renal failure with acute cortical necrosis

N172 Acute renal failure with medullary necrosis

N178 Other acute renal failure

N179 Acute renal failure, unspecified

N181 Chronic kidney disease, stage 1

N182 Chronic kidney disease, stage 2

N183 Chronic kidney disease, stage 3

N184 Chronic kidney disease, stage 4

N185 Chronic kidney disease, stage 5

N189 Chronic kidney disease, unspecified

N19X Unspecified kidney failure

Additional Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Breast prosthesis removal

EBI recommendation

Surgery to remove breast implants should only be considered for specific clinical indications. Only patients whose initial procedure was funded by the NHS should be considered for both implant removal and replacement. In line with current guidance, patients eligible to have their implant replaced must be informed of the potential risk of BIA-ALCL.

Coding

Code script

Inpatient

WHEN   LEFT(der.Spell_Dominant_Procedure,4) IN ('B303', 'B307')
            AND (APCS.Der_Diagnosis_All LIKE '%Z421%')
            AND (NOT(APCS.Der_Diagnosis_All LIKE '%T85[487]%'
                      OR APCS.Der_Diagnosis_All LIKE '%N60[0123489]%'
                      OR APCS.Der_Diagnosis_All LIKE '%N61%'
                      OR APCS.Der_Diagnosis_All LIKE '%N63%'
                      OR APCS.Der_Diagnosis_All LIKE '%N64[01234589]%'
                      OR APCS.Der_Diagnosis_All LIKE '%C84[6789]%'
                      OR APCS.Der_Diagnosis_All LIKE '%Y812%')
                OR APCS.Der_Diagnosis_All IS NULL)
            AND APCS.Admission_Method NOT LIKE '2%'
            THEN '3A_Breast_Prosthesis_Removal'

Outpatient

WHEN   OPA.Der_Procedure_All LIKE '%B30[37]%'
            AND (OPA.Der_Diagnosis_All LIKE '%Z421%')
            AND (NOT(OPA.Der_Diagnosis_All LIKE '%T85[487]%'

OR OPA.Der_Diagnosis_All LIKE
'%N60[0123489]%'
OR OPA.Der_Diagnosis_All LIKE '%N61%'
OR OPA.Der_Diagnosis_All LIKE '%N63%'
OR OPA.Der_Diagnosis_All LIKE
'%N64[01234589]%'
OR OPA.Der_Diagnosis_All LIKE '%C84[6789]%'
OR OPA.Der_Diagnosis_All LIKE '%Y812%')
OR OPA.Der_Diagnosis_All IS NULL)
THEN '3A_Breast_Prosthesis_Removal'

Code Definitions

Procedure codes (OPCS):

B303 Removal of prosthesis for breast NEC

B307 Removal of breast prosthesis from pre-pectoral space

Diagnosis codes (ICD)

Inclusion

Z421 Follow-up care involving plastic surgery of breast

Exclusion

T854 Mechanical complication of breast prosthesis and implant

T858 Other complications of internal prosthetic devices, implants and grafts, not elsewhere classified

T857 Infection and inflammatory reaction due to other internal prosthetic devices, implants and grafts

N600 Solitary cyst of breast

N601 Diffuse cystic mastopathy

N602 Fibroadenosis of breast

N603 Fibrosclerosis of breast

N604 Mammary duct ectasia

N608 Other benign mammary dysplasias

N609 Benign mammary dysplasia, unspecified

N61X Inflammatory disorders of breast

N63X Unspecified lump in breast

N640 Fissure and fistula of nipple

N641 Fat necrosis of breast

N642 Atrophy of breast

N643 Galactorrhoea not associated with childbirth

N644 Mastodynia

N645 Other signs and symptoms in breast

N648 Other specified disorders of breast

N649 Disorder of breast, unspecified

C846 Anaplastic large cell lymphoma, ALK-positive

C847 Anaplastic large cell lymphoma, ALK-negative

C848 Cutaneous T-cell lymphoma, unspecified

C849 Mature T/NK-cell lymphoma, unspecified

Y812 General- and plastic-surgery devices associated with adverse incidents - Prosthetic and other implants, materials and accessory devices (secondary to C84-)

Additional Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Breast reduction

EBI recommendation

Breast reduction is only successful in specific circumstances, and it can lead to serious complications. However, in some cases breast reduction surgery is necessary where large breasts impact on day-to-day life, for example, ability to drive a car. Breast reduction should only be undertaken under specific criteria.

Coding

Code script

```
WHEN      LEFT(der.Spell_Dominant_Procedure,4) in ('B311')
          AND  ( der.Spell_Primary_Diagnosis like 'N62%'
              OR (apcs.der_diagnosis_all like '%Z411%'
          AND not apcs.der_diagnosis_all like '%Z853%') )
          AND not (apcs.der_diagnosis_all like '%C50[0-9]%')
          AND APCS.Admission_Method not like ('2%')
          THEN 'E_breast_red'
```

Code Definitions

Procedure codes (OPCS)

B311   Reduction mammoplasty

Diagnosis codes (ICD)

Includes

N62X   Hypertrophy of breast

Exclusions

C500   Malignant neoplasm of nipple and areola

C501   Malignant neoplasm of central portion of breast

C502   Malignant neoplasm of upper-inner quadrant of breast

C503   Malignant neoplasm of lower-inner quadrant of breast

C504   Malignant neoplasm of upper-outer quadrant of breast

C505 Malignant neoplasm of lower-outer quadrant of breast

C506 Malignant neoplasm of axillary tail of breast

C508 Malignant neoplasm of overlapping lesion of breast

C509 Malignant neoplasm of breast, unspecified

Z411 Other plastic surgery for unacceptable cosmetic appearance (plus, Z853 Personal history of malignant neoplasm of breast for post breast cancer treatment)

Additional Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Carpal tunnel syndrome release

EBI recommendation

Carpal tunnel syndrome is common, and mild acute symptoms usually get better with time. Splinting at night, pain relief and corticosteroid injection should be considered. Surgery should be considered for persistent severe symptoms. Surgical treatment of carpal tunnel should only be offered under specific criteria.

Coding

Code script

```
WHEN      LEFT(der.Spell_Dominant_Procedure,4) = 'A651'
          AND der.Spell_Primary_Diagnosis like '%G560%'
          AND APCS.Admission_Method not like ('2%')
          THEN 'M_carpal'
```

Code Definitions

Procedure codes (OPCS)

Main

A651 Carpal tunnel release

Potential

A658 Other specified release of entrapment of peripheral nerve at wrist
A659 Unspecified release of entrapment of peripheral nerve at wrist

Diagnosis codes (ICD)

G560 Carpal tunnel syndrome

Additional Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and
apcs.der_diagnosis_all not like '%D0%' and
apcs.der_diagnosis_all not like '%D3[789]%' and
apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Asymptomatic carotid artery stenosis screening

EBI recommendation

Patients without symptoms should not be referred for imaging. If a patient is found to have narrowed arteries, they do not require follow up if they continue to have no symptoms. However, if a patient does have symptoms or evidence of an ischaemic event in the brain, they should be referred for a duplex ultrasound of the arteries as the first-line investigation.

Coding

Code script

Inpatient

```
WHEN      (  APCS.Der_Procedure_All LIKE '%U111%'
          OR
           ( (    APCS.Der_Procedure_All LIKE '%U117%'
          OR APCS.Der_Procedure_All LIKE '%U21[126]%'
          OR APCS.Der_Procedure_All LIKE '%U355%')
          AND (      APCS.Der_Procedure_All LIKE '%Z361%'
              OR   APCS.Der_Procedure_All LIKE '%Z95[567]%') ) )
          AND (NOT (       APCS.Der_Diagnosis_All LIKE
          '%I63[01289]%'
                  OR APCS.Der_Diagnosis_All LIKE
                  '%G45[123489]%' )
          OR APCS.Der_Diagnosis_All IS NULL )
          AND APCS.Admission_Method NOT LIKE '2%'
          THEN '3E_Carotid_Stenosis_Screening_Any_Position'
```

Outpatient

```
WHEN      (      OPA.Der_Procedure_All LIKE '%U111%'
          OR
           ( (    OPA.Der_Procedure_All LIKE '%U117%'
          OR OPA.Der_Procedure_All LIKE '%U21[126]%'
```

OR OPA.Der_Procedure_All LIKE '%U355%')

AND (OPA.Der_Procedure_All LIKE '%Z361%'

OR   OPA.Der_Procedure_All LIKE '%Z95[567]%')))

AND (NOT (OPA.Der_Diagnosis_All LIKE '%I63[01289]%'

OR   OPA.Der_Diagnosis_All LIKE
'%G45[123489]%')

OR OPA.Der_Diagnosis_All IS NULL)

THEN '3E_Carotid_Stenosis_Screening_No_Diagnosis'

NOTE: Outpatient data will include non-asymptomatic carotid artery stenosis scanning activity.

Code Definitions

Procedure codes (OPCS)

U111   Ultrasound of carotid artery

U216   Ultrasound scan NEC*

Z361   Carotid artery NEC*

Z955   External carotid artery*

Z956   Common carotid artery*

Z957   Internal carotid artery*

U355   Computed tomography angiography NEC

U212   Computed tomography NEC

Z361   Carotid artery NEC**

Z955   External carotid artery**

Z956   Common carotid artery**

Z957   Internal carotid artery**

U117   Magnetic resonance angiography

U211   Magnetic resonance imaging NEC

Z361   Carotid artery NEC***

Z955   External carotid artery***

Z956   Common carotid artery***

Z957   Internal carotid artery***

*Secondary to U216
**Secondary to U355 or U212
***Secondary to U117 or U211

Diagnosis codes (ICD)

Inclusion

I652   Occlusion and stenosis of carotid artery

Exclusion

I630   Cerebral infarction due to thrombosis of precerebral arteries

I631   Cerebral infarction due to embolism of precerebral arteries

I632   Cerebral infarction due to unspecified occlusion or stenosis of precerebral arteries

I638   Other cerebral infarction

I639   Cerebral infarction, unspecified

G451   Carotid artery syndrome (hemispheric)

G452   Multiple and bilateral precerebral artery syndromes

G453   Amaurosis fugax

G454   Transient global amnesia

G458   Other transient cerebral ischaemic attacks and related syndromes

G459   Transient cerebral ischaemic attack, unspecified

Additional Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Shared decision making for cataract surgery

EBI recommendation

The pathway for patients with cataracts to be referred for surgery is updated across England to include shared decision making and not restrict access based on visual acuity.

In line with NICE guidance, do not restrict access to cataract surgery on the basis of visual acuity.

Coding

Code script

Inpatient

```
WHEN       LEFT(der.Spell_Dominant_Procedure,4) IN ('C751', 'C712','C754',
'C711','C713', 'C718', 'C719')
            AND ( APCS.Der_Diagnosis_All LIKE '%H25[01289]%'
                OR APCS.Der_Diagnosis_All LIKE '%H26[012389]%'
                OR APCS.Der_Diagnosis_All LIKE '%H28[012]%'
                OR APCS.Der_Diagnosis_All LIKE '%Q120%'  )
            AND APCS.Admission_Method NOT LIKE '2%'
            THEN '3C_Cataract_Surgery'
```

Code Definitions

Procedure codes (OPCS)

Main

C751 Insertion of prosthetic replacement for lens NEC *

C712 Phacoemulsification of lens *

C754 Insertion of prosthetic replacement for lens using suture fixation**

C711 Simple linear extraction of lens**

C713 Aspiration of lens**

C718 Other specified extracapsular extraction of lens**

C719 Unspecified extracapsular extraction of lens**

*   Most common codes associated with cataracts
** Less common but are associated with cataracts

Potential

C731 Membranectomy of lens

C732 Capsulotomy of anterior lens capsule

C733 Capsulotomy of posterior lens capsule

C734 Capsulotomy of lens NEC

C738 Other specified incision of capsule of lens

C739 Unspecified incision of capsule of lens

C741 Curettage of lens

C742 Discission of cataract

C743 Mechanical lensectomy

C748 Other specified other extraction of lens

C749 Unspecified other extraction of lens

C752 Revision of prosthetic replacement for lens

C753 Removal of prosthetic replacement for lens

C758 Other specified prosthesis of lens

C759 Unspecified prosthesis of lens

Diagnosis codes (ICD)

Inclusion

H250 Senile incipient cataract

H251 Senile nuclear cataract

H252 Senile cataract, morgagnian type

H258 Other senile cataract

H259 Senile cataract, unspecified

H260 Infantile, juvenile and presenile cataract

H261 Traumatic cataract

H262 Complicated cataract

H263 Drug-induced cataract

H268 Other specified cataract

H269 Cataract, unspecified

H280 Diabetic cataract

H281 Cataract in other endocrine, nutritional and metabolic diseases

H282 Cataract in other diseases classified elsewhere

Q120 Congenital cataract

Included in policy

H264 After-cataract (also used for posterior capsule opacification)

Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and
apcs.der_diagnosis_all not like '%D0%' and
apcs.der_diagnosis_all not like '%D3[789]%' and
apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Chalazia removal

EBI recommendation

The evidence shows that alternative treatment options (warm compresses, drops or ointment, steroid injection) or a "watch and wait" approach will lead to resolution of many chalazia without the risks of surgery.

Coding

Code script

WHEN   LEFT(der.Spell_Dominant_Procedure,4) in ('C121','C122','C123','C124','C125','C126','C128','C129','C191','C198','C199')
        AND LEFT(der.Spell_Primary_Diagnosis,4) in ('H000','H001')
        AND APCS.Admission_Method not like ('2%')
        THEN 'K_chalazia'

Code Definitions

Procedure codes (OPCS)

C121 Excision of lesion of eyelid NEC

C122 Cauterisation of lesion of eyelid

C123 Cryotherapy to lesion of eyelid

C124 Curettage of lesion of eyelid

C125 Destruction of lesion of eyelid NEC

C126 Wedge excision of lesion of eyelid

C128 Other specified extirpation of lesion of eyelid

C129 Unspecified extirpation of lesion of eyelid

C191 Drainage of lesion of eyelid

C198 Other specified incision of eyelid

C199 Unspecified incision of eyelid

Diagnosis codes (ICD)

H000 Hordeolum and other deep inflammation of eyelid

H001 Chalazion

Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Cholecystectomy

EBI recommendation

Cholecystectomy is a surgical procedure that removes the gallbladder. The gallbladder in an organ located just below the liver on the right side of the body. It is usually performed laparoscopically (keyhole), but can be performed open, which involves a large cut under the right rib cage. A cholecystectomy can be performed for numerous indications, two of which are gallstones or gallstone pancreatitis. An interval cholecystectomy is one that is performed some weeks after the initial acute presentation, while an index cholecystectomy is one that is performed at the time of acute admission.

Coding

Code Script

WHEN   LEFT(Der.Spell_Dominant_Procedure,4) in ('J181','J182','J183','J184','J185','J188','J189')

AND der.Spell_primary_diagnosis like '%K851%'

AND isnull(APCS.Age_At_Start_of_Spell_SUS,APCS.Der_Age_at_CDS_Activity_Date) between 19 AND 120

THEN '2Q_interval_cholecystectomy'

Code Definitions

Procedure codes (OPCS)

J181 Total cholecystectomy and excision of surrounding tissue

J182 Total cholecystectomy and exploration of common bile duct

J183 Total cholecystectomy NEC

J184 Partial cholecystectomy and exploration of common bile duct

J185 Partial cholecystectomy NEC

J188 Other specified excision of gall bladder

J189 Unspecified excision of gall bladder

Diagnosis codes (ICD)

K800 Calculus of gallbladder with acute cholecystitis

K810 Acute cholecystitis

K851 Biliary acute pancreatitis

Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Penile circumcision

EBI recommendation

Medical penile circumcision is rarely indicated as a primary treatment. Most children and young people presenting with penile problems require no intervention other than reassurance. It is important to note that young children may be unable to give informed consent to penile circumcision, therefore it is especially important that surgeons and parents consider the evidence base and consider less radical options when making the decision to perform penile circumcision, which cannot be reversed once performed.

Coding

Code script

Inpatient

```
WHEN      LEFT(der.Spell_Dominant_Procedure,4) IN ('N303')
          AND APCS.Der_Diagnosis_All LIKE '%N47%'
          AND (NOT(              APCS.Der_Diagnosis_All LIKE
          '%N390%'
                    OR   APCS.Der_Diagnosis_All LIKE '%N48[01]%'
                    OR   APCS.Der_Diagnosis_All LIKE
                         '%Q54[0123489]%'
                    OR   APCS.Der_Diagnosis_All LIKE
                         '%Q55[345689]%' )
               OR APCS.Der_Diagnosis_All IS NULL )
          THEN '3J_Penile_Circumcision'
```

Code Definitions

Procedure codes (OPCS)

N303 Circumcision

Diagnosis codes (ICD)

Inclusion

N47X Redundant prepuce, phimosis and paraphimosis

Exclusion

N390 Urinary tract infection, site not specified (current infection - only added unspecified site code as most likely)

Z874 Personal history of diseases of the genitourinary system (history of infection - not specific to UTI)

N480 Leukoplakia of penis

N481 Balanoposthitis

Q540 Hypospadias, balanic

Q541 Hypospadias, penile

Q542 Hypospadias, penoscrotal

Q543 Hypospadias, perineal

Q544 Congenital chordee

Q548 Other hypospadias

Q549 Hypospadias, unspecified

Q553 Atresia of vas deferens

Q554 Other congenital malformations of vas deferens, epididymis, seminal vesicles and prostate

Q555 Congenital absence and aplasia of penis

Q556 Other congenital malformations of penis

Q558 Other specified congenital malformations of male genital organs

Q559 Congenital malformation of male genital organ, unspecified

Additional Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Appropriate colonoscopy in the management of hereditary colorectal cancer
Repeat colonoscopy

EBI recommendation

Appropriate colonoscopy in the management of hereditary colorectal cancer

While colonoscopy is a safe procedure, there is a small risk of complications – including pain, intestinal perforation or major haemorrhage as well as issues related to any sedative used. Colonoscopy should therefore be used appropriately in the management of CRC in people who have been identified with an increased lifetime risk of CRC due to hereditary factors.

Repeat colonoscopy

While reducing colorectal mortality is an important aim of colonoscopic surveillance, the main aim is to prevent colorectal cancer by resecting premalignant polyps. Many patients benefit from this alone and do not require subsequent surveillance.

Coding

Code Script

Inpatient

```
WHEN        LEFT(der.Spell_Dominant_Procedure,4) in
('H221','H228','H229','H682','H684','H688','H689')
            AND not (apcs.der_diagnosis_all like '%D126%'
                OR apcs.der_diagnosis_all like '%Q858%'
                OR apcs.der_diagnosis_all like '%Z0[89][012789]%'
                OR apcs.der_diagnosis_all like '%Z121%')
            AND
            isnull(APCS.Age_At_Start_of_Spell_SUS,APCS.Der_Age_at_CDS
            _Activity_Date) between 19 AND 120
            AND APCS.Der_Procedure_All not like '%H68[13]%'
            AND APCS.Admission_Method not like ('2%')
```

THEN '2NO_UnnecColonoscopy'

Outpatient

WHEN   (opa.Der_Procedure_All like '%H22[189]%'

          OR opa.Der_Procedure_All like '%H68[2489]%')

     AND ISNULL(opa.der_diagnosis_all,") not like '%D126%'

     AND ISNULL(opa.der_diagnosis_all,") not like '%Q858%'

     AND ISNULL(opa.der_diagnosis_all,") not like '%Z08[012789]%'

     AND ISNULL(opa.der_diagnosis_all,") not like '%Z09[012789]%'

     AND ISNULL(opa.der_diagnosis_all,") not like '%Z121%'

     AND
ISNULL(opa.Age_at_Start_of_Episode_SUS,opa.Der_Age_at_CDS_Activity_Date) between 19 AND 120

     AND opa.Der_Procedure_All NOT like '%H68[13]%'

     THEN '2NO_UnnecColonoscopy'

Code Definitions

Procedure codes (OPCS)

Main

H221 Diagnostic fibreoptic endoscopic examination of colon and biopsy of lesion of colon

H228 Other specified diagnostic endoscopic examination of colon

H229 Unspecified diagnostic endoscopic examination of colon

H682 Diagnostic endoscopic examination of colonic pouch using   colonoscope NEC

H684 Diagnostic endoscopic examination of ileoanal pouch using colonoscope NEC

H688 Other specified diagnostic endoscopic examination of enteric pouch using colonoscope

H689 Unspecified diagnostic endoscopic examination of enteric pouch using colonoscope

Exclusion

H681 Diagnostic endoscopic examination of colonic pouch and biopsy of colonic pouch using colonoscope

H683 Diagnostic endoscopic examination of ileoanal pouch and biopsy of ileoanal pouch using colonoscope

Diagnosis codes (ICD)

Exclusion

D126 Benign neoplasm: Colon, unspecified

Q858 Other phakomatoses, not elsewhere classified

Z080 Follow-up examination after surgery for malignant neoplasm

Z081 Follow-up examination after radiotherapy for malignant neoplasm

Z082 Follow-up examination after chemotherapy for malignant neoplasm

Z087 Follow-up examination after combined treatment for malignant neoplasm

Z088 Follow-up examination after other treatment for malignant neoplasm

Z089 Follow-up examination after unspecified treatment for malignant neoplasm

Z090 Follow-up examination after surgery for other conditions

Z091 Follow-up examination after radiotherapy for other conditions

Z092 Follow-up examination after chemotherapy for other conditions

Z097 Follow-up examination after combined treatment for other conditions

Z098 Follow-up examination after other treatment for other conditions

Z099 Follow-up examination after unspecified treatment for other conditions

Z121 Special screening examination for neoplasm of intestinal tract

Additional Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Diagnostic coronary angiography for low risk, stable chest pain

EBI recommendation

NICE guidelines recommend that where a diagnosis of chest pain cannot, by clinical assessment alone, exclude stable angina, 64-slice (or above) CT coronary angiography should be offered as first-line. Invasive coronary angiography should only be offered to patients with significant findings on CT coronary angiogram or with inconclusive further imaging.

Coding

Code Script

```
WHEN       LEFT(der.Spell_Dominant_Procedure,4) like '%K63[12345689]%'
           AND not (apcs.der_diagnosis_all like '%I20[018]%'
                OR apcs.der_diagnosis_all like '%I21[012349]%'
                OR apcs.der_diagnosis_all like '%I2[24][0189]%'
                OR apcs.der_diagnosis_all like '%I23[01234568]%'
                OR apcs.der_diagnosis_all like '%I25[012345689]%')
           AND not (apcs.Der_Procedure_All like '%U10[1-9]%'
                OR apcs.Der_Procedure_All like '%U205%'
                OR apcs.Der_Procedure_All like '%U115%')
           AND
           isnull(APCS.Age_At_Start_of_Spell_SUS,APCS.Der_Age_at_CDS
           _Activity_Date) between 19 and 120
           THEN '2A_Angio'
```

Code Definitions

Procedure codes (OPCS)

Main

K631 Angiocardiography of combination of right and left side of heart

K632 Angiocardiography of right side of heart NEC

K633 Angiocardiography of left side of heart NEC

K634 Coronary arteriography using two catheters

K635 Coronary arteriography using single catheter

K636 Coronary arteriography NEC

K638 Other specified contrast radiology of heart

K639 Unspecified contrast radiology of heart

Exclusion

U205 Stress echocardiography

U106 Myocardial perfusion scan

U115 Thallium stress test

U101 Cardiac computed tomography for calcium scoring

U102 Cardiac computed tomography angiography

U103 Cardiac magnetic resonance imaging

U104 Myocardial positron emission tomography

U105 Radionuclide angiocardiography

U106 Myocardial perfusion scan

U107 Cardiac multiple gated acquisition scan

U108 Other specified diagnostic imaging of heart

U109 Unspecified diagnostic imaging of heart

U115 Thallium stress test

Diagnosis codes (ICD)

Exclusion

I200 Unstable angina

I201 Angina pectoris with documented spasm

I208 Other forms of angina pectoris

I210 Acute transmural myocardial infarction of anterior wall

I211 Acute transmural myocardial infarction of inferior wall

I212 Acute transmural myocardial infarction of other sites

I213 Acute transmural myocardial infarction of unspecified site

I214 Acute subendocardial myocardial infarction

I219 Acute myocardial infarction, unspecified

I220 Subsequent myocardial infarction of anterior wall

I221 Subsequent myocardial infarction of inferior wall

I228 Subsequent myocardial infarction of other sites

I229 Subsequent myocardial infarction of unspecified site

I230 Haemopericardium as current complication following acute myocardial infarction

I231   Atrial septal defect as current complication following acute myocardial infarction

I232   Ventricular septal defect as current complication following acute myocardial infarction

I233   Rupture of cardiac wall without haemopericardium as current complication following acute myocardial infarction

I234   Rupture of chordae tendineae as current complication following acute myocardial infarction

I235   Rupture of papillary muscle as current complication following acute myocardial infarction

I236   Thrombosis of atrium, auricular appendage, and ventricle as current complications following acute myocardial infarction

I238   Other current complications following acute myocardial infarction

I240   Coronary thrombosis not resulting in myocardial infarction

I241   Dressler syndrome

I248   Other forms of acute ischaemic heart disease

I249   Acute ischaemic heart disease, unspecified

I250   Atherosclerotic cardiovascular disease, so described

I251   Atherosclerotic heart disease

I252   Old myocardial infarction

I253   Aneurysm of heart

I254   Coronary artery aneurysm and dissection

I255   Ischaemic cardiomyopathy

I256   Silent myocardial ischaemia

I258   Other forms of chronic ischaemic heart disease

I259   Chronic ischaemic heart disease, unspecified

Additional Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and
apcs.der_diagnosis_all not like '%D0%' and
apcs.der_diagnosis_all not like '%D3[789]%' and
apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Exercise ECG for screening for coronary heart disease

EBI recommendation

Exercise electrocardiogram (ECG) is a type of cardiac stress test that should no longer be used to screen for coronary heart disease (CHD).

Coding

Code Script

Inpatient

WHEN   LEFT(der.Spell_Dominant_Procedure,4) LIKE '%U194%'
AND (apcs.der_diagnosis_all like '%I20[189]%'
    OR apcs.der_diagnosis_all like '%I24[08]%'
    OR apcs.der_diagnosis_all like '%I25[012345689]%')
AND isnull(APCS.Age_At_Start_of_Spell_SUS,APCS.Der_Age_at_CDS_Activity_Date) between 19 AND 120
THEN '2L_ExerciseECG'

Outpatient

WHEN   OPA.Der_Procedure_All LIKE '%U194%'
AND isnull(OPA.Age_at_Start_of_Episode_SUS,OPA.Der_Age_at_CDS_Activity_Date) between 19 AND 120
THEN '2L_ExerciseECG'

Code Definitions

Procedure codes (OPCS)

Main

U194 Exercise electrocardiography

Diagnosis codes (ICD)

I201   Angina pectoris with documented spasm

I208   Other forms of angina pectoris

I209   Angina pectoris, unspecified

I240   Coronary thrombosis not resulting in myocardial infarction

I248   Other forms of acute ischaemic heart disease

I250   Atherosclerotic cardiovascular disease, so described

I251   Atherosclerotic heart disease

I252   Old myocardial infarction

I253   Aneurysm of heart

I254   Coronary artery aneurysm and dissection

I255   Ischaemic cardiomyopathy

I256   Silent myocardial ischaemia

I258   Other forms of chronic ischaemic heart disease

I259   Chronic ischaemic heart disease, unspecified

All diagnoses and procedure only if admitted as an inpatient solely for the exercise ECG.

Additional Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Cystoscopy for uncomplicated lower urinary tract symptoms

EBI recommendation

Cystoscopy should be offered to men with LUTS only when clinically indicated.

Coding

Code Script

WHEN   LEFT(der.Spell_Dominant_Procedure,4) in ('M455','M458','M459')

AND apcs.sex=1

AND not (apcs.der_diagnosis_all like '%F171%'

OR apcs.der_diagnosis_all like '%N390%'

OR apcs.der_diagnosis_all like '%R31%'

OR apcs.der_diagnosis_all like '%R398%')

AND apcs.Der_Procedure_All not like '%M45[1-4]%'

AND isnull(APCS.Age_At_Start_of_Spell_SUS,APCS.Der_Age_at_CDS_Activity_Date) between 19 AND 120

AND APCS.Admission_Method not like ('2%')

THEN '2H_cystoscopy_UTI'

Code Definitions

Procedure codes (OPCS)

Main

M455 Diagnostic endoscopic examination of bladder using rigid cystoscope

M458 Other specified diagnostic endoscopic examination of bladder

M459 Unspecified diagnostic endoscopic examination of bladder

Exclusion

M451 Diagnostic endoscopic examination of bladder and biopsy of lesion of bladder NEC

M452 Diagnostic endoscopic examination of bladder and biopsy of lesion of prostate NEC

M453 Diagnostic endoscopic examination of bladder and biopsy of lesion of bladder using rigid cystoscope

M454 Diagnostic endoscopic examination of bladder and biopsy of lesion of prostate using rigid cystoscope

Diagnosis codes (ICD)

Exclusion

F171 Mental and behavioural disorders due to use of tobacco - Harmful use

N390 Urinary tract infection, site not specified

R31X Unspecified haematuria

R398 Other and unspecified symptoms and signs involving the urinary system

Additional Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Dupuytren's contracture release

EBI recommendation

NICE recommends no treatment is necessary for people with Dupuytren's disease who do not have contracture. Referral to hand surgery should be made for people with Dupuytren's contractures according to specific criteria.

Coding

Code script

```
WHEN      LEFT(der.Spell_Dominant_Procedure,4) in
('T521','T522','T525','T526','T541','T543')
          AND
          isnull(APCS.Age_At_Start_of_Spell_SUS,APCS.Der_Age_at_CDS
          _Activity_Date) between 19 AND 120
          AND LEFT(der.Spell_Primary_Diagnosis,4)='M720'
          AND APCS.Admission_Method not like ('2%')
          THEN 'N_dupuytr'
```

Code Definitions

Procedure codes (OPCS)

Main

T521 Palmar fasciectomy

T522 Revision of palmar fasciectomy

T525 Digital fasciectomy

T526 Revision of digital fasciectomy

T541 Division of palmar fascia NEC

T543 Needle fasciotomy of palmar fascia

Potential

T528 Other specified excision of other fascia

T529 Unspecified excision of other fascia

T548 Other specified division of fascia

T549 Unspecified division of fascia

Diagnosis codes (ICD)

M720 Palmar fascial fibromatosis [Dupuytren] (there is no way to differentiate between Dupuytren's disease and contracture in the classification)

Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Upper GI endoscopy

EBI recommendation

Endoscopy is an invasive procedure and is not always well tolerated. It carries significant risks and should not be used as a first-line indication in all patients. Upper GI Endoscopy should only be performed if the patient meets certain criteria.

Coding

Code Script

Inpatient

WHEN   LEFT(der.Spell_Dominant_Procedure,4) in ('G161','G162','G163','G168','G169','G191','G192','G198','G199','G451','G452','G453','G454','G458','G459','G551','G558','G559','G651','G658','G659','G801','G803','G808','G809')

AND
isnull(APCS.Age_At_Start_of_Spell_SUS,APCS.Der_Age_at_CDS_Activity_Date) between 19 AND 120
AND APCS.Admission_Method not like ('2%')
THEN '2M_UpperGIEndoscopy'

Outpatient

WHEN   LEFT(der.Attend_Dominant_Procedure,4) in ('G161','G162','G163','G168','G169','G191','G192','G198','G199','G451','G452','G453','G454','G458','G459','G551','G558','G559','G651','G658','G659','G801','G803','G808','G809')

AND
isnull(OPA.Age_at_Start_of_Episode_SUS,OPA.Der_Age_at_CDS_Activity_Date) between 19 AND 120
THEN '2M_UpperGIEndoscopy'

Code Definitions

Procedure codes (OPCS)

G161 Diagnostic fibreoptic endoscopic examination of oesophagus and biopsy of lesion of oesophagus

G162 Diagnostic fibreoptic endoscopic ultrasound examination of oesophagus

G163 Diagnostic fibreoptic insertion of Bravo pH capsule into oesophagus

G168 Other specified diagnostic fibreoptic endoscopic examination of oesophagus

G169 Unspecified diagnostic fibreoptic endoscopic examination of oesophagus

G191 Diagnostic endoscopic examination of oesophagus and biopsy of lesion of oesophagus using rigid oesophagoscope

G192 Diagnostic endoscopic insertion of Bravo pH capsule using rigid oesophagoscope

G198 Other specified diagnostic endoscopic examination of oesophagus using rigid oesophagoscope

G199 Unspecified diagnostic endoscopic examination of oesophagus using rigid oesophagoscope

G451 Fibreoptic endoscopic examination of upper gastrointestinal tract and biopsy of lesion of upper gastrointestinal tract

G452 Fibreoptic endoscopic ultrasound examination of upper gastrointestinal tract

G453 Fibreoptic endoscopic insertion of Bravo pH capsule into upper gastrointestinal tract

G454 Fibreoptic endoscopic examination of upper gastrointestinal tract and staining of gastric mucosa

G458 Other specified diagnostic fibreoptic endoscopic examination of upper gastrointestinal tract

G459 Unspecified diagnostic fibreoptic endoscopic examination of upper gastrointestinal tract

G551 Diagnostic endoscopic examination of duodenum and biopsy of lesion of duodenum

G558 Other specified diagnostic endoscopic examination of duodenum

G559 Unspecified diagnostic endoscopic examination of duodenum

G651 Diagnostic endoscopic examination of jejunum and biopsy of lesion of jejunum

G658 Other specified diagnostic endoscopic examination of jejunum

G659 Unspecified diagnostic endoscopic examination of jejunum

G801 Diagnostic endoscopic examination of ileum and biopsy of lesion of ileum

G803 Diagnostic endoscopic balloon examination of ileum

G808 Other specified diagnostic endoscopic examination of ileum

G809 Unspecified diagnostic endoscopic examination of ileum

Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Fusion surgery for mechanical axial low back pain

EBI recommendation

Spinal fusion is not indicated for the treatment of non-specific, mechanical back pain.

Coding

Code Script

WHEN   (left(der.Spell_Dominant_Procedure,4) like '%V38[23456]%'
           OR left(der.Spell_Dominant_Procedure,4) like '%V39[34567]%'
                   OR left(der.Spell_Dominant_Procedure,4) like '%V404%')
           AND der.Spell_Primary_Diagnosis like '%M54[34589]%'
           AND not (apcs.der_diagnosis_all like '%M40[012]%'
                   OR apcs.der_diagnosis_all like '%M41[01234589]%'
                   OR apcs.der_diagnosis_all like '%M42[019]%'
                   OR apcs.der_diagnosis_all like '%M43[01589]%'
                   OR apcs.der_diagnosis_all like '%M45%'
                   OR (apcs.der_diagnosis_all like '%O268%'
           AND (apcs.der_diagnosis_all like '%M533%'
                   OR apcs.der_diagnosis_all like '%M54[345]%')))
           AND
           isnull(APCS.Age_At_Start_of_Spell_SUS,APCS.Der_Age_at_CDS
           _Activity_Date) between 19 AND 120
           AND APCS.Admission_Method not like ('2%')
           THEN '2Y_back_pain_fusion'

Code Definitions

Procedure codes (OPCS)

V382   Primary posterior interlaminar fusion of joint of lumbar spine
V383   Primary posterior fusion of joint of lumbar spine NEC

V384 Primary intertransverse fusion of joint of lumbar spine NEC

V385 Primary posterior interbody fusion of joint of lumbar spine

V386 Primary transforaminal interbody fusion of joint of lumbar spine

V393 Revisional posterior interlaminar fusion of joint of lumbar spine

V394 Revisional posterior fusion of joint of lumbar spine NEC

V395 Revisional intertransverse fusion of joint of lumbar spine NEC

V396 Revisional posterior interbody fusion of joint of lumbar spine

V397 Revisional transforaminal interbody fusion of joint of lumbar spine

V404 Posterior instrumented fusion of lumbar spine NEC

Diagnosis codes (ICD)

Inclusion

M543 Sciatica

M544 Lumbago with sciatica

M545 Low back pain

M548 Other dorsalgia

M549 Dorsalgia, unspecified

Exclusion

M400 Postural kyphosis

M401 Other secondary kyphosis

M402 Other and unspecified kyphosis

M410 Infantile idiopathic scoliosis

M411 Juvenile idiopathic scoliosis

M412 Other idiopathic scoliosis

M413 Thoracogenic scoliosis

M414 Neuromuscular scoliosis

M415 Other secondary scoliosis

M418 Other forms of scoliosis

M419 Scoliosis, unspecified

M420 Juvenile osteochondrosis of spine

M421 Adult osteochondrosis of spine

M429 Spinal osteochondrosis, unspecified

M430 Spondylolysis

M431 Spondylolisthesis

M435 Other recurrent vertebral subluxation

M438 Other specified deforming dorsopathies

M439 Deforming dorsopathy, unspecified

M45X Ankylosing spondylitis

O268 Other specified pregnancy-related conditions

M533 Sacrococcygeal disorders, not elsewhere classified*

M543 Sciatica*

M544 Lumbago with sciatica*

M545 Low back pain*

* Secondary to O268

Additional Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Ganglion excision

EBI recommendation

Most people live comfortably with ganglia and they often resolve spontaneously over time. Ganglion excision can be unnecessary, can cause complications, and recurrence is common following surgery. The complications may be similar to or worse than the original problem. Ganglion excision should only be offered under specific criteria.

Coding

Code script

WHEN   LEFT(der.Spell_Dominant_Procedure,4) in ('T591','T592','T601','T602')

AND (der.Spell_Primary_Diagnosis like '%M674%'

OR der.Spell_Primary_Diagnosis like '%M255%')

AND apcs.der_diagnosis_all not like '%M258%'

AND APCS.Admission_Method not like ('2%')

THEN 'O_ganglion'

Code Definitions

Procedure codes (OPCS)

Main

T591 Excision of ganglion of wrist

T592 Excision of ganglion of hand NEC

T601 Re-excision of ganglion of wrist

T602 Re-excision of ganglion of hand NEC

Potential

T611 Aspiration of ganglion

T613 Injection of ganglion

T618 Other specified other operations on ganglion

T598 Other specified excision of ganglion

T599 Unspecified excision of ganglion

T608   Other specified re-excision of ganglion

T609   Unspecified re-excision of ganglion

Diagnosis codes (ICD)

Includes

M674 Ganglion (nothing to state that this is severe as per policy. Also nothing to demonstrate the site (although this can be picked up from the OPCS-4 code))

M255 Pain in joint (this code might be used to demonstrate that there is pain involved, but not a guarantee (fifth character would be '0', '4' or '7'))

Exclusions

M258 Other specified joint disorders (this is where cyst of joint is classified so might be used as a bypass)

Additional Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Glaucoma referral criteria

EBI recommendation

The pathway for the referral of glaucoma and related conditions (such as ocular hypertension [OHT] which is raised eye pressure without optic nerve damage) to a hospital eye service is consistent across England to include additional clinical assessments and repeat measurements performed by optometrists, as recommended by NICE NG81. These services are outside of the sight test and need to be locally commissioned.

Coding

Code script

Inpatient

```
WHEN        ( APCS.Der_Diagnosis_All LIKE '%H40[012345689]%'
            OR    APCS.Der_Diagnosis_All LIKE '%H42[08]%'
            OR    APCS.Der_Diagnosis_All LIKE '%H445%'
            OR    APCS.Der_Diagnosis_All LIKE '%P153%'
            OR    APCS.Der_Diagnosis_All LIKE '%Q150%')
            AND (NOT ( APCS.Der_Diagnosis_All LIKE '%H46%'
                    OR APCS.Der_Diagnosis_All LIKE '%H470%' )
            OR APCS.Der_Diagnosis_All IS NULL )
            AND APCS.Admission_Method NOT LIKE '2%'
            THEN '3D_Glaucoma_Referral'
```

Outpatient

```
WHEN        (OPA.Der_Diagnosis_All LIKE '%H40[012345689]%'
            OR    OPA.Der_Diagnosis_All LIKE '%H42[08]%'
            OR    OPA.Der_Diagnosis_All LIKE '%H445%'
            OR    OPA.Der_Diagnosis_All LIKE '%P153%'
            OR    OPA.Der_Diagnosis_All LIKE '%Q150%' )
            AND (NOT ( OPA.Der_Diagnosis_All LIKE '%H46%'
                    OR OPA.Der_Diagnosis_All LIKE '%H470%')
            OR OPA.Der_Diagnosis_All IS NULL )
```

<div align="center">THEN '3D_Glaucoma_Referral'</div>

Code Definitions

Diagnosis codes (ICD)

Inclusion

H400 Glaucoma suspect

H401 Primary open-angle glaucoma

H402 Primary angle-closure glaucoma

H403 Glaucoma secondary to eye trauma

H404 Glaucoma secondary to eye inflammation

H405 Glaucoma secondary to other eye disorders

H406 Glaucoma secondary to drugs

H408 Other glaucoma

H409 Glaucoma, unspecified

H420 Glaucoma in endocrine, nutritional and metabolic diseases

H428 Glaucoma in other diseases classified elsewhere

H445 Degenerated conditions of globe (absolute glaucoma is classified to this code)

P153 Birth injury to eye (traumatic glaucoma due to birth injury is classified to this code)

Q150 Congenital glaucoma

Exclusion

H46X Optic neuritis

H470 Disorders of optic nerve, not elsewhere classified

Procedure codes (OPCS)

Potential exclusions (indicating treatment rather than referral)

C52.1 Deep sclerectomy with spacer

C52.2 Deep sclerectomy without spacer

C60.1 Trabeculectomy

C60.5 Insertion of tube into anterior chamber of eye to assist drainage of aqueous humour

C60.6 Viscocanulostomy

C60.8 Other specified filtering operations on iris

C60.9 Unspecified filtering operations on iris

C61.1 Laser trabeculoplasty

C61.2 Trabeculotomy

C61.3 Goniotomy

C61.4 Goniopuncture

C61.5 Viscogonioplasty

C61.8 Other specified other operations on trabecular meshwork of eye

C61.9 Unspecified other operations on trabecular meshwork of eye

C62.1 Iridosclerotomy

C62.2 Surgical iridotomy

C62.3 Laser iridotomy

C62.8 Other specified incision of iris

C62.9 Unspecified incision of iris

Additional Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Grommets for glue ear in children

EBI recommendation

Evidence suggests that grommets only offer a short-term hearing improvement in children with glue ear who have no other serious medical problems or disabilities. They should be offered in cases that have a history of persistent (at least 3 months) bilateral, hearing loss as defined by the NICE guidance. Hearing aids can also be offered as an alternative to surgery.

Coding

Code script

```
WHEN     LEFT(der.Spell_Dominant_Procedure,4) in ('D151')
         AND (der.Spell_Primary_Diagnosis like 'H65[2349]%'
             OR der.Spell_Primary_Diagnosis like 'H66[012349]%')
         AND (
         isnull(APCS.Age_At_Start_of_Spell_SUS,APCS.Der_Age_at_CDS
         _Activity_Date) between 0 AND 18
             OR
             isnull(APCS.Age_At_Start_of_Spell_SUS,APCS.Der_Age_a
             t_CDS_Activity_Date) between 7001 AND 7007 )
         AND APCS.Admission_Method not like ('2%')
         THEN 'G_gromm'
```

Code Definitions

Procedure codes (OPCS)

D151 Myringotomy with insertion of ventilation tube through tympanic membrane

Diagnosis codes (ICD)

H652 Chronic serous otitis media

H653 Chronic mucoid otitis media

H654 Other chronic nonsuppurative otitis media

H659 Nonsuppurative otitis media, unspecified

H660 Acute suppurative otitis media

H661 Chronic tubotympanic suppurative otitis media

H662 Chronic atticoantral suppurative otitis media

H663 Other chronic suppurative otitis media

H664 Suppurative otitis media, unspecified

H669 Otitis media, unspecified

Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Non-visible haematuria

EBI recommendation

Patients should be referred from primary care to secondary care for investigation of non-visible haematuria in line with guideline NG12 from the National Institute for Health and

Care Excellence (NICE). The EBI programme proposes clear, evidence-based criteria on how to investigate in hospitals

Coding

Code script

Inpatient

```
WHEN    (    APCS.Der_Procedure_All LIKE '%U12[34]%'
        OR   APCS.Der_Procedure_All LIKE '%U372%'
        OR   (APCS.Der_Procedure_All LIKE '%U21[26]%'
             AND (    APCS.Der_Procedure_All LIKE
             '%Z41[123489]%'
                  OR   APCS.Der_Procedure_All LIKE '%Z421%') ) )
        AND (    APCS.Der_Diagnosis_All LIKE '%R31%'
             OR   APCS.Der_Diagnosis_All LIKE
             '%N02[0123456789]%' )
        AND (NOT (    APCS.Der_Diagnosis_All LIKE '%R300%'
                  OR   APCS.Der_Diagnosis_All LIKE '%R72%'
                  OR   APCS.Der_Diagnosis_All LIKE '%N390%')
             OR   APCS.Der_Diagnosis_All IS NULL )
             AND APCS.Admission_Method NOT LIKE '2%'
        THEN '3H_Non-visible_Haematuria'
```

Outpatient

```
WHEN    (    OPA.Der_Procedure_All LIKE '%U12[34]%'
        OR   OPA.Der_Procedure_All LIKE '%U372%'
        OR   (OPA.Der_Procedure_All LIKE '%U21[26]%'
             AND (    OPA.Der_Procedure_All LIKE
             '%Z41[123489]%'
```

OR   OPA.Der_Procedure_All LIKE '%Z421%')))

AND (OPA.Der_Diagnosis_All LIKE '%R31%'

OR   OPA.Der_Diagnosis_All LIKE '%N02[0123456789]%'

)

AND (NOT (OPA.Der_Diagnosis_All LIKE '%R300%'

OR   OPA.Der_Diagnosis_All LIKE '%R72%'

OR   OPA.Der_Diagnosis_All LIKE '%N390%')

OR OPA.Der_Diagnosis_All IS NULL)

THEN '3H_Non-visible_Haematuria'

NOTE: Outpatient data will include scanning for conditions and symptoms other than non-visible haematuria.

Coding comment

It might be difficult to generate meaningful data from the codes due to restrictiveness of the classification and variety of symptoms associated with this.

Code Definitions

Procedure codes (OPCS)

U123   Ultrasound of kidneys

U124   Ultrasound of bladder

U216   Ultrasound scan NEC

Z411   Kidney*

Z412   Ureteric orifice*

Z413   Ureter NEC*

Z414   Renal pelvis NEC*

Z418   Specified upper urinary tract NEC*

Z419   Upper urinary tract NEC*

Z421   Bladder NEC*

U212   Computed tomography NEC

Z411   Kidney**

Z412   Ureteric orifice**

Z413   Ureter NEC**

Z414   Renal pelvis NEC**

Z418   Specified upper urinary tract NEC**

Z419   Upper urinary tract NEC**

Z421 Bladder NEC**

U372 Computed tomography of kidneys

*Secondary to U216
**Secondary to U212

Diagnosis codes (ICD)

Inclusion

R31X Unspecified haematuria (most likely code to return results)

N020 Recurrent and persistent haematuria - Minor glomerular abnormality

N021 Recurrent and persistent haematuria - Focal and segmental glomerular lesions

N022 Recurrent and persistent haematuria - Diffuse membranous glomerulonephritis

N023 Recurrent and persistent haematuria - Diffuse mesangial proliferative glomerulonephritis

N024 Recurrent and persistent haematuria - Diffuse endocapillary proliferative glomerulonephritis

N025 Recurrent and persistent haematuria - Diffuse mesangiocapillary glomerulonephritis

N026 Recurrent and persistent haematuria - Dense deposit disease

N027 Recurrent and persistent haematuria - Diffuse crescentic glomerulonephritis

N028 Recurrent and persistent haematuria - Other

N029 Recurrent and persistent haematuria - Unspecified

Exclusion

R300 Dysuria

R72X Abnormality of white blood cells, not elsewhere classified

N390 Urinary tract infection, site not specified (Only added unspecified site code as most   likely)

Additional Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Haemorrhoid surgery

EBI recommendation

Numerous interventions exist for the management of haemorrhoids (piles). The evidence recommends that surgical treatment should only be considered for haemorrhoids that keep coming back after treatment or for haemorrhoids that are significantly affecting daily life.

Coding

Code script

WHEN   LEFT(der.Spell_Dominant_Procedure,4) in ('H511','H512','H513','H518','H519')

AND (apcs.der_diagnosis_all like '%K64[01234589]%'

OR apcs.der_diagnosis_all like '%O224%'

OR apcs.der_diagnosis_all like '%O872%')

AND not (apcs.der_diagnosis_all like '%C[0-8][0-9]%'

OR apcs.der_diagnosis_all like '%C9[0-7]%')

AND APCS.Admission_Method not like ('2%')

THEN 'I_haemmor'

Code Definitions

Procedure codes (OPCS)

Main

H511 Haemorrhoidectomy

H512 Partial internal sphincterotomy for haemorrhoid

H513 Stapled haemorrhoidectomy

H518 Other specified excision of haemorrhoid

H519 Unspecified excision of haemorrhoid

Potential

H521 Cryotherapy to haemorrhoid

H522 Infrared photocoagulation of haemorrhoid

H523 Injection of sclerosing substance into haemorrhoid

H524 Rubber band ligation of haemorrhoid

H528 Other specified destruction of haemorrhoid

H529 Unspecified destruction of haemorrhoid

H531 Evacuation of perianal haematoma

H532 Forced manual dilation of anus for haemorrhoid

H533 Manual reduction of prolapsed haemorrhoid

H538 Other specified other operations on haemorrhoid

H539 Unspecified other operations on haemorrhoid

L703 Ligation of artery NEC (coding for the HALO procedure)

Y524 Peranal transrectal approach to organ (secondary to L703)

Y532 Approach to organ under ultrasonic control (secondary to Y524)

Z378 Specified lateral branch of abdominal aorta NEC (secondary to Y532)

Diagnosis codes (ICD)

Includes

K640 First degree haemorrhoids

K641 Second degree haemorrhoids

K642 Third degree haemorrhoids

K643 Fourth degree haemorrhoids

K644 Residual haemorrhoidal skin tags

K645 Perianal venous thrombosis

K648 Other specified haemorrhoids

K649 Haemorrhoids, unspecified

O224 Haemorrhoids in pregnancy

O872 Haemorrhoids in the puerperium

Potential

C00-C97   Malignant neoplasms

Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Helmet therapy for treatment of positional plagiocephaly / brachycephaly in children

EBI recommendation

There is clear evidence and expert consensus that a helmet does not affect the natural course of skull growth and should not be used.

Coding

Code Script

For interventions with fewer than 10 episodes during 2018/19, the activity and coding has not been included.

WHEN   apcs.Der_Procedure_All like '%V04[89]%'

AND (apcs.Der_Diagnosis_All LIKE '%Q673%')

AND isnull(APCS.Age_At_Start_of_Spell_SUS,APCS.Der_Age_at_CDS_Activity_Date)<=2

AND APCS.Admission_Method not like ('2%')

THEN 'Z_Helmet_therapy'

Code Definitions

No appropriate classification procedure codes available for this treatment.

Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Repair of minimally symptomatic inguinal hernia

EBI recommendation

Watchful waiting is a safe option for people with minimally symptomatic inguinal hernias. Delaying and not doing surgical repair unless symptoms increase is acceptable because acute hernia incarcerations occur rarely. Many people with an inguinal hernia are asymptomatic or minimally symptomatic and may never need surgery.

Coding

Code Script

```
WHEN      LEFT(der.Spell_Dominant_Procedure,4) in
('T201','T202','T203','T204','T208','T209')
          AND der.Spell_Primary_Diagnosis like 'K40[29]%'
          AND
          isnull(APCS.Age_At_Start_of_Spell_SUS,APCS.Der_Age_at_CDS
          _Activity_Date) between 19 and 120
          AND APCS.Admission_Method not like ('2%')
          THEN '2B_hernia_repair'
```

Code Definitions

Procedure codes (OPCS)

T201 Primary repair of inguinal hernia using insert of natural material

T202 Primary repair of inguinal hernia using insert of prosthetic material

T203 Primary repair of inguinal hernia using sutures

T204 Primary repair of inguinal hernia and reduction of sliding hernia

T208 Other specified primary repair of inguinal hernia

T209 Unspecified primary repair of inguinal hernia

T211 Repair of recurrent inguinal hernia using insert of natural material

T212 Repair of recurrent inguinal hernia using insert of prosthetic material

T213 Repair of recurrent inguinal hernia using sutures

T214   Removal of prosthetic material from previous repair of inguinal hernia

T218   Other specified repair of recurrent inguinal hernia

T219   Unspecified repair of recurrent inguinal hernia

Diagnosis codes (ICD)

K402   Bilateral inguinal hernia, without obstruction or gangrene

K409   Unilateral or unspecified inguinal hernia, without obstruction or gangrene

Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Hysterectomy for heavy bleeding

EBI recommendation

NICE recommends that hysterectomy should not be used as a first-line treatment solely for heavy menstrual bleeding (HMB). Heavy periods can be reduced by using medicines or intrauterine systems (IUS) or losing weight (if necessary).

Coding

Code script

```
WHEN       LEFT(der.Spell_Dominant_Procedure,4) in
('Q071','Q072','Q073','Q074','Q075','Q076','Q078','Q079','Q081','Q082','Q083','Q088','Q089')
          AND (apcs.der_diagnosis_all like '%N92[0124]%'
             OR apcs.der_diagnosis_all like '%N950%')
          AND apcs.der_diagnosis_all not like '%D25[0129]%'
          AND not (apcs.der_diagnosis_all like '%C52%'
              OR apcs.der_diagnosis_all like '%C53[0189]%'
              OR apcs.der_diagnosis_all like '%C54[012389]%'
              OR apcs.der_diagnosis_all like '%C5[56]%'
              OR apcs.der_diagnosis_all like '%C57[01234789]%'
              OR apcs.der_diagnosis_all like '%C58%')
          AND APCS.Admission_Method not like ('2%')
          THEN 'J_hysterec'
```

Code Definitions

Procedure codes (OPCS)

Q071 Abdominal hysterocolpectomy and excision of periuterine tissue

Q072 Abdominal hysterectomy and excision of periuterine tissue NEC

Q073 Abdominal hysterocolpectomy NEC

Q074 Total abdominal hysterectomy NEC

Q075 Subtotal abdominal hysterectomy

Q076 Excision of accessory uterus

Q078 Other specified abdominal excision of uterus

Q079 Unspecified abdominal excision of uterus

Q081 Vaginal hysterocolpectomy and excision of periuterine tissue

Q082 Vaginal hysterectomy and excision of periuterine tissue NEC

Q083 Vaginal hysterocolpectomy NEC

Q088 Other specified vaginal excision of uterus

Q089 Unspecified vaginal excision of uterus

Diagnosis codes (ICD)

Includes

N920 Excessive and frequent menstruation with regular cycle

N921 Excessive and frequent menstruation with irregular cycle

N922 Excessive menstruation at puberty

N924 Excessive bleeding in the premenopausal period

N950 Postmenopausal bleeding (used to classify postmenopausal menorrhagia)

Exclusions

D250 Submucous leiomyoma of uterus (can be used in exception searches based on criteria that it is accepted)

D251 Intramural leiomyoma of uterus (can be used in exception searches based on criteria that it is accepted)

D252 Subserosal leiomyoma of uterus (can be used in exception searches based on criteria that it is accepted)

D259 Leiomyoma of uterus, unspecified (can be used in exception searches based on criteria that it is accepted)

C52X Malignant neoplasm of vagina

C530 Malignant neoplasm of endocervix

C531 Malignant neoplasm of exocervix

C538 Malignant neoplasm of overlapping lesion of cervix uteri

C539 Malignant neoplasm of cervix uteri, unspecified

C540 Malignant neoplasm of isthmus uteri

C541 Malignant neoplasm of endometrium

C542 Malignant neoplasm of myometrium

C543 Malignant neoplasm of fundus uteri

C548 Malignant neoplasm of overlapping lesion of corpus uteri

C549 Malignant neoplasm of corpus uteri, unspecified

C55X Malignant neoplasm of uterus, part unspecified

C56X Malignant neoplasm of ovary

C570 Malignant neoplasm of fallopian tube

C571   Malignant neoplasm of broad ligament

C572   Malignant neoplasm of round ligament

C573   Malignant neoplasm of parametrium

C574   Malignant neoplasm of uterine adnexa, unspecified

C577   Malignant neoplasm of other specified female genital organs

C578   Malignant neoplasm of overlapping lesion of female genital organs

C579   Malignant neoplasm of female genital organ, unspecified

C58X   Malignant neoplasm of placenta

Additional Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120
for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Surgical removal of kidney stones

EBI recommendation

Stones can be observed to see if they pass spontaneously, or treated with shockwave lithotripsy, or surgical techniques such as ureteroscopy (URS) and percutaneous stone surgery (PCNL), both of which may involve placing a stent.

Coding

Code Script

```
WHEN       LEFT(der.Spell_Dominant_Procedure,4) in
('M071','M072','M078','M091','M092','M093','M094','M098','M261','M262','M263','M268','M271','M272','M273','M278','M284','M285','M288','M289')
           AND (der.Spell_Primary_Diagnosis like '%N132%'
               OR der.Spell_Primary_Diagnosis like '%N20[0129]%')
           AND
           isnull(APCS.Age_At_Start_of_Spell_SUS,APCS.Der_Age_at_CDS
           _Activity_Date) between 19 AND 120
           THEN '2G_kidney_stone_surgery'
```

Code Definitions

Procedure codes (OPCS)

M071 Ureteroscopic laser fragmentation of calculus of kidney

M072 Ureteroscopic extraction of calculus of kidney NEC

M078 Other specified therapeutic ureteroscopic operations on kidney

M091 Endoscopic ultrasound fragmentation of calculus of kidney

M092 Endoscopic electrohydraulic shockwave fragmentation of calculus of kidney

M093 Endoscopic laser fragmentation of calculus of kidney

M094 Endoscopic extraction of calculus of kidney NEC

M098 Other specified therapeutic endoscopic operations on calculus of kidney

M261 Nephroscopic laser fragmentation of calculus of ureter

M262 Nephroscopic fragmentation of calculus of ureter NEC

M263 Nephroscopic extraction of calculus of ureter

M268 Other specified therapeutic nephroscopic operations on ureter

M271 Ureteroscopic laser fragmentation of calculus of ureter

M272 Ureteroscopic fragmentation of calculus of ureter NEC

M273 Ureteroscopic extraction of calculus of ureter

M278 Other specified therapeutic ureteroscopic operations on ureter

M284 Endoscopic catheter drainage of calculus of ureter

M285 Endoscopic drainage of calculus of ureter by dilation of ureter

M288 Other specified other endoscopic removal of calculus from ureter

M289 Unspecified other endoscopic removal of calculus from ureter

Diagnosis codes (ICD)

N132 Hydronephrosis with renal and ureteral calculous obstruction

N200 Calculus of kidney

N201 Calculus of ureter

N202 Calculus of kidney with calculus of ureter

N209 Urinary calculus, unspecified

Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Knee arthroscopy for patients with osteoarthritis

EBI recommendation

Arthroscopic knee washout (lavage and debridement) should not be used as a treatment for osteoarthritis because it is clinically ineffective.

Coding

Code script

```
WHEN      ( LEFT(der.Spell_Dominant_Procedure,4) in ('W851','W852')
              OR  (LEFT(der.Spell_Dominant_Procedure,4) = 'W802'
          AND  apcs.der_procedure_all like '%Y767%'
          AND apcs.der_procedure_all like '%Z846%')  )
          AND
          isnull(APCS.Age_At_Start_of_Spell_SUS,APCS.Der_Age_at_CDS
          _Activity_Date) between 19 AND 120
          AND (der.Spell_Primary_Diagnosis like 'M17[0123459]'
              OR  der.Spell_Primary_Diagnosis like 'M15[0123489]')
          AND apcs.der_diagnosis_all not like '%M238%'
          AND APCS.Admission_Method not like ('2%')
          THEN 'C_knee_arth'
```

Code Definitions

Procedure codes (OPCS)

Main

W852 Endoscopic irrigation of knee joint

W802 Open debridement of joint NEC

Y767   Arthroscopic approach to joint (only when supplementary to W802)

Z846   Knee joint (only when supplementary to W802)

W851 Endoscopic removal of loose body from of knee joint

Potential

W821 Endoscopic total excision meniscus of knee joint

W822 Endoscopic resection of meniscus of knee joint

W823 Endoscopic repair of meniscus of knee joint

W824 Endoscopic total replacement of meniscus of knee joint

W825 Endoscopic partial replacement of meniscus of knee joint

W861 Endoscopic removal of loose body from joint NEC (plus, *Z846 Knee joint*)

Diagnosis codes (ICD)

Includes

M170 Primary gonarthrosis, bilateral

M171 Other primary gonarthrosis

M172 Post-traumatic gonarthrosis, bilateral

M173 Other post-traumatic gonarthrosis

M174 Other secondary gonarthrosis, bilateral

M175 Other secondary gonarthrosis

M179 Gonarthrosis, unspecified

M150 Primary generalized (osteo)arthrosis (if patient has OA of the knee and another joint - not a reason for arthroscopy without locking)

M151 Heberden nodes (with arthropathy) (if patient has OA of the knee and another joint - not a reason for arthroscopy without locking)

M152 Bouchard nodes (with arthropathy) (if patient has OA of the knee and another joint - not a reason for arthroscopy without locking)

M153 Secondary multiple arthrosis(if patient has OA of the knee and another joint - not a reason for arthroscopy without locking)

M154 Erosive (osteo)arthrosis(if patient has OA of the knee and another joint - not a reason for arthroscopy without locking)

M158 Other polyarthrosis(if patient has OA of the knee and another joint - not a reason for arthroscopy without locking)

M159 Polyarthrosis, unspecified(if patient has OA of the knee and another joint - not a reason for arthroscopy without locking)

Exclusion

M238 Other internal derangements of knee (locking of knee, but code is not dedicated to this description)

Additional Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Lumbar Discectomy

EBI recommendation

In the presence of concordant MRI changes, Discectomy may be offered to patients with compressive nerve root signs and symptoms lasting three months (except in severe cases) despite best efforts with non-operative management.

Coding

Code Script

```
WHEN        ( LEFT(der.Spell_Dominant_Procedure,4) in
('V331','V332','V333','V334','V335','V336','V337','V338','V339','V511','V518','V519','V583','V603')
                OR (LEFT(der.Spell_Dominant_Procedure,4) in
                ('V521','V522','V525','V528','V529','V588','V589','V608','V609' )
                    AND  apcs.Der_Procedure_All like '%Z993%' ) )
        AND (der.Spell_Primary_Diagnosis like '%M51[01]%'
        OR der.Spell_Primary_Diagnosis like '%M54[134]%')
        AND
        isnull(APCS.Age_At_Start_of_Spell_SUS,APCS.Der_Age_at_CDS_Activity_Date) between 19 AND 120
        AND APCS.Admission_Method not like ('2%')
        THEN '2J_Discectomy'
```

Code Definitions

Procedure codes (OPCS)

V331 Primary laminectomy excision of lumbar intervertebral disc

V332 Primary fenestration excision of lumbar intervertebral disc

V333 Primary anterior excision of lumbar intervertebral disc and interbody fusion of joint of lumbar spine

V334 Primary anterior excision of lumbar intervertebral disc NEC

V335 Primary anterior excision of lumbar intervertebral disc and posterior graft fusion of joint of lumbar spine

V336 Primary anterior excision of lumbar intervertebral disc and posterior instrumentation of lumbar spine

V337 Primary microdiscectomy of lumbar intervertebral disc

V338 Other specified primary excision of lumbar intervertebral disc

V339 Unspecified primary excision of lumbar intervertebral disc

V511 Primary direct lateral excision of lumbar intervertebral disc and interbody fusion of joint of lumbar spine

V518 Other specified other primary excision of lumbar intervertebral disc

V519 Unspecified other primary excision of lumbar intervertebral disc

V521 Enzyme destruction of intervertebral disc (must have *Z993 Intervertebral disc of lumbar spine* in addition)

V522 Destruction of intervertebral disc NEC (must have *Z993 Intervertebral disc of lumbar spine* in addition)

V525 Aspiration of intervertebral disc NEC (must have *Z993 Intervertebral disc of lumbar spine* in addition)

V528 Other specified other operations on intervertebral disc (must have *Z993 Intervertebral disc of lumbar spine* in addition)

V529 Unspecified other operations on intervertebral disc (must have *Z993 Intervertebral disc of lumbar spine* in addition)

V583 Primary automated percutaneous mechanical excision of lumbar intervertebral disc

V588 Other specified primary automated percutaneous mechanical excision of intervertebral disc (must have *Z993 Intervertebral disc of lumbar spine* in addition)

V589 Unspecified primary automated percutaneous mechanical excision of intervertebral disc (must have *Z993 Intervertebral disc of lumbar spine* in addition)

V603 Primary percutaneous decompression using coblation to lumbar intervertebral disc

V608 Other specified primary percutaneous decompression using coblation to intervertebral disc (must have *Z993 Intervertebral disc of lumbar spine* in addition)

V609 Unspecified primary percutaneous decompression using coblation to intervertebral disc (must have *Z993 Intervertebral disc of lumbar spine* in addition)

Diagnosis codes (ICD)

M510 Lumbar and other intervertebral disc disorders with myelopathy

M511 Lumbar and other intervertebral disc disorders with radiculopathy

M541 Radiculopathy

M543 Sciatica

M544 Lumbago with sciatica

Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120
for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Lumbar radiofrequency facet joint denervation

EBI recommendation

Lumbar radiofrequency facet joint denervation (RFD) should only be offered in accordance with NICE Guideline NG59 which recommends it as an adjunct in the management of chronic low back pain only when non-operative treatment has failed, and the main source of pain is thought to arise from one or more degenerate facet joints.

Coding

Code Script

```
WHEN      ( LEFT(der.Spell_Dominant_Procedure,4) in ('V485','V487')
          AND (apcs.der_procedure_all like '%Z67[567]%'
               OR apcs.der_procedure_all like '%Z993%') )
          AND LEFT(der.spell_primary_diagnosis,4) in
          ('M512','M518','M519','M545','M549')
          AND
          isnull(APCS.Age_At_Start_of_Spell_SUS,APCS.Der_Age_at_CDS
          _Activity_Date) between 19 AND 120
          AND APCS.Admission_Method not like ('2%')
          THEN '2K_RFD_back'
```

Code Definitions

Procedure codes (OPCS):

Main

V485 Radiofrequency controlled thermal denervation of spinal facet joint of lumbar vertebra

V487 Radiofrequency controlled thermal denervation of spinal facet joint of vertebra NEC

Z675 Lumbar intervertebral joint (secondary to V48)

Z676 Lumbosacral joint (secondary to V48)

Z677 Sacrococcygeal joint (secondary to V48)

Z993 Intervertebral disc of lumbar spine (secondary to V48)

Potential

V486 Denervation of spinal facet joint of lumbar vertebra NEC

Y114 Radiofrequency controlled thermal destruction of organ NOC (secondary to V486)

A572 Rhizotomy of spinal nerve root (this code could be used if documented as rhizotomy)

A573 Radiofrequency controlled thermal destruction of spinal nerve root (this code could be used if documented as rhizotomy)

Diagnosis codes (ICD)

M512 Other specified intervertebral disc displacement

M518 Other specified intervertebral disc disorders

M519 Intervertebral disc disorder, unspecified

M545 Low back pain

M549 Dorsalgia, unspecified

Additional Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Arthroscopic surgery for meniscal tears

EBI recommendation

The British Association for surgery of the Knee (BASK) recently published guidelines for the use of arthroscopic surgery to treat degenerate meniscal tears.

Coding

Code Script

WHEN   (LEFT(der.Spell_Dominant_Procedure,4) in ('W821','W822','W823','W828','W829')

        OR (LEFT(der.Spell_Dominant_Procedure,4) = 'W714' and (APCS.der_procedure_all like '%Y767%' and APCS.der_procedure_all like '%Z846%'))

        OR (LEFT(der.Spell_Dominant_Procedure,4) = 'W715' and (APCS.der_procedure_all like '%Y767%' and APCS.der_procedure_all like '%Z846%')))

    AND (APCS.Der_Diagnosis_All like '%M232%' OR (APCS.Der_Diagnosis_All like '%M233%' and APCS.Der_Diagnosis_All like '%M238%'))

    AND APCS.der_diagnosis_all not like '%S832%'

    AND APCS.Admission_Method not like ('2%')

    THEN '2E_arthroscopic_surgery'

Code Definitions

Procedure codes (OPCS)

Main

W714 Open autologous chondrocyte implantation into articular structure

W715 Open stem cell implantation into articular structure

Y767   Arthroscopic approach to joint (secondary to W714/W715)

Z846   Knee joint (secondary to W714/W715 and Y767)

W821 Endoscopic total excision meniscus of knee joint

W822 Endoscopic resection of meniscus of knee joint

W823 Endoscopic repair of meniscus of knee joint

W824 Endoscopic total replacement of meniscus of knee joint

W825 Endoscopic partial replacement of meniscus of knee joint

W828 Other specified therapeutic endoscopic operations on meniscus of knee joint

W829 Unspecified therapeutic endoscopic operations on meniscus of knee joint

Diagnosis codes (ICD)

Inclusion

M232 Derangement of meniscus due to old tear or injury

M238 Other internal derangements of knee (with M232/3)

Exclusions

S832 Tear of meniscus, current

Potential

M233 Other meniscus derangements

Additional Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Dilatation and curettage for heavy menstrual bleeding

EBI recommendation

Dilatation and curettage (D&C) should not be used for diagnosis or treatment for heavy menstrual bleeding in women because it is clinically ineffective.

Code Script

Code script

```
WHEN    LEFT(der.Spell_Dominant_Procedure,4) in ('Q108', 'Q103')
        AND (der.Spell_Primary_Diagnosis like '%N920%'
            OR der.Spell_Primary_Diagnosis like '%N921%'
            OR der.Spell_Primary_Diagnosis like '%N922%'
            OR der.Spell_Primary_Diagnosis like '%N924%'
            OR der.Spell_Primary_Diagnosis like '%N950%')
        AND APCS.Admission_Method not like ('2%')
        THEN 'B_menstr_D&C'
```

Code Definitions

Procedure codes (OPCS)

Q108 Other specified curettage of uterus

Q188 Other specified diagnostic endoscopic examination of uterus (included this here, rather than the exclusions, as it is unlikely to be used for anything else, but there is the potential for it to be)

Q103 Dilation of cervix uteri and curettage of uterus NEC

Diagnosis codes (ICD)

N920 Excessive and frequent menstruation with regular cycle

N921 Excessive and frequent menstruation with irregular cycle

N922 Excessive menstruation at puberty

N924 Excessive bleeding in the premenopausal period

N950   Postmenopausal bleeding (trails from menorrhagia, postmenopausal - unlikely
         to be found on search)

Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120
for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Knee MRI when symptoms are suggestive of osteoarthritis
Knee MRI for suspected meniscal tears

EBI recommendation

Knee MRI when symptoms are suggestive of osteoarthritis

An initial diagnosis of OA can be made when clinical assessment is suggestive of this pathology. If imaging is required to confirm the diagnosis, then weight bearing radiographs are the first-line of investigation. Magnetic resonance imaging (MRI) for knees is not usually needed.

Knee MRI for suspected meniscal tears

The majority of patients who present to primary care with knee pain do not require initial investigation with an MRI scan once red flag symptoms and signs have been excluded. Patients with persistent mechanical knee symptoms should be referred to secondary care and should have an MRI scan of the knee to investigate for a meniscal tear and/or other pathology.

Coding

Code Script

Coding and count merged for T Knee MRI when symptoms are suggestive of osteoarthritis and U Knee MRI for suspected meniscal tears, producing a single metric.

Outpatient

```
WHEN     LEFT(opa.Der_Procedure_All,4) in ('U133','U211')
         AND (opa.Der_Procedure_All like '%Z846%'
                 OR opa.Der_Procedure_All like '%O132%')
         AND (not (      opa.der_diagnosis_all like '%M00[01289]%'
                 OR opa.der_diagnosis_all like '%M01[01234568]%'
                 OR opa.der_diagnosis_all like '%M0[25][012389]%'
                 OR opa.der_diagnosis_all like '%M03[0126]%'
                 OR opa.der_diagnosis_all like '%M0[68][0123489]%'
                 OR opa.der_diagnosis_all like '%M07[0-6]%'
```

```
                OR opa.der_diagnosis_all like '%M09[0128]%'
                OR opa.der_diagnosis_all like '%M10[012349]%'
                OR opa.der_diagnosis_all like '%M11[01289]%'
                OR opa.der_diagnosis_all like '%M12[0123458]%'
                OR opa.der_diagnosis_all like '%M13[0189]%'
                OR opa.der_diagnosis_all like '%M14[01234568]%'
                OR opa.der_diagnosis_all like '%M15[12348]%'
                OR opa.der_diagnosis_all like '%M16[012345679]%'
                OR opa.der_diagnosis_all like '%M17[2345]%'
                OR opa.der_diagnosis_all like '%M238%'
                OR opa.der_diagnosis_all like '%C40[289]%'
                OR opa.der_diagnosis_all like '%C7[69]5%'
                OR opa.der_diagnosis_all like '%D162%')
            OR opa.der_diagnosis_all IS NULL)
        AND
        ISNULL(opa.Age_at_Start_of_Episode_SUS,opa.Der_Age_at_CD
        S_Activity_Date) between 19 AND 120
        THEN 'C_knee_arth'
```

Code Definitions

Procedure codes (OPCS)

U133 Magnetic resonance imaging of bone

U211 Magnetic resonance imaging NEC

Z846 Knee joint (secondary to U code)

O132 Knee NEC (secondary to U code)

Diagnosis codes (ICD)

Inclusion

M150 Primary generalized (osteo)arthrosis

M159 Polyarthrosis, unspecified

M170 Primary gonarthrosis, bilateral

M171 Other primary gonarthrosis

M179 Gonarthrosis, unspecified

M232 Derangement of meniscus due to old tear or injury

S832 Tear of meniscus, current

Exclusion

M000 Staphylococcal arthritis and polyarthritis

M001 Pneumococcal arthritis and polyarthritis

M002 Other streptococcal arthritis and polyarthritis

M008 Arthritis and polyarthritis due to other specified bacterial agents

M009 Pyogenic arthritis, unspecified

M010 Meningococcal arthritis

M011 Tuberculous arthritis

M012 Arthritis in Lyme disease

M013 Arthritis in other bacterial diseases classified elsewhere

M014 Rubella arthritis

M015 Arthritis in other viral diseases classified elsewhere

M016 Arthritis in mycoses

M018 Arthritis in other infectious and parasitic diseases classified elsewhere

M020 Arthropathy following intestinal bypass

M021 Postdysenteric arthropathy

M022 Postimmunization arthropathy

M023 Reiter disease

M028 Other reactive arthropathies

M029 Reactive arthropathy, unspecified

M030 Postmeningococcal arthritis

M031 Postinfective arthropathy in syphilis

M032 Other postinfectious arthropathies in diseases classified elsewhere

M036 Reactive arthropathy in other diseases classified elsewher

M050 Felty syndrome

M051 Rheumatoid lung disease

M052 Rheumatoid vasculitis

M053 Rheumatoid arthritis with involvement of other organs and systems

M058 Other seropositive rheumatoid arthritis

M059 Seropositive rheumatoid arthritis, unspecified

M060 Seronegative rheumatoid arthritis

M061 Adult-onset Still disease

M062 Rheumatoid bursitis

M063 Rheumatoid nodule

M064 Inflammatory polyarthropathy

M068 Other specified rheumatoid arthritis

M069 Rheumatoid arthritis, unspecified

M070 Distal interphalangeal psoriatic arthropathy

M071 Arthritis mutilans

M072 Psoriatic spondylitis

M073 Other psoriatic arthropathies

M074 Arthropathy in Crohn disease [regional enteritis]

M075 Arthropathy in ulcerative colitis

M076 Other enteropathic arthropathies

M080 Juvenile rheumatoid arthritis

M081 Juvenile ankylosing spondylitis

M082 Juvenile arthritis with systemic onset

M083 Juvenile polyarthritis (seronegative)

M084 Pauciarticular juvenile arthritis

M088 Other juvenile arthritis

M089 Juvenile arthritis, unspecified

M090 Juvenile arthritis in psoriasis

M091 Juvenile arthritis in Crohn disease [regional enteritis]

M092 Juvenile arthritis in ulcerative colitis

M098 Juvenile arthritis in other diseases classified elsewhere

M100 Idiopathic gout

M101 Lead-induced gout

M102 Drug-induced gout

M103 Gout due to impairment of renal function

M104 Other secondary gout

M109 Gout, unspecified

M110 Hydroxyapatite deposition disease

M111 Familial chondrocalcinosis

M112 Other chondrocalcinosis

M118 Other specified crystal arthropathies

M119 Crystal arthropathy, unspecified

M120 Chronic postrheumatic arthropathy [Jaccoud]

M121 Kaschin-Beck disease

M122 Villonodular synovitis (pigmented)

M123 Palindromic rheumatism

M124 Intermittent hydrarthrosis

M125 Traumatic arthropathy

M128 Other specific arthropathies, not elsewhere classified

M130 Polyarthritis, unspecified

M131 Monoarthritis, not elsewhere classified

M138 Other specified arthritis

M139 Arthritis, unspecified

M140 Gouty arthropathy due to enzyme defects and other inherited disorders

M141 Crystal arthropathy in other metabolic disorders

M142 Diabetic arthropathy

M143 Lipoid dermatoarthritis

M144 Arthropathy in amyloidosis

M145 Arthropathies in other endocrine, nutritional and metabolic disorders

M146 Neuropathic arthropathy

M148 Arthropathies in other specified diseases classified elsewhere

M151 Heberden nodes (with arthropathy)

M152 Bouchard nodes (with arthropathy)

M153 Secondary multiple arthrosis

M154 Erosive (osteo)arthrosis

M158 Other polyarthrosis

M160 Primary coxarthrosis, bilateral

M161 Other primary coxarthrosis

M162 Coxarthrosis resulting from dysplasia, bilateral

M163 Other dysplastic coxarthrosis

M164 Post-traumatic coxarthrosis, bilateral

M165 Other post-traumatic coxarthrosis

M166 Other secondary coxarthrosis, bilateral

M167 Other secondary coxarthrosis

M169 Coxarthrosis, unspecified

M172 Post-traumatic gonarthrosis, bilateral

M173 Other post-traumatic gonarthrosis

M174 Other secondary gonarthrosis, bilateral

M175 Other secondary gonarthrosis

M238 Other internal derangements of knee (code for knee locking but not specific to this)

C402 Malignant neoplasm: Long bones of lower limb

C408 Malignant neoplasm: Overlapping lesion of bone and articular cartilage of limbs

C409 Malignant neoplasm: Bone and articular cartilage of limb, unspecified

C765 Malignant neoplasm of other and ill-defined sites: Lower limb

C795 Secondary malignant neoplasm of bone and bone marrow

D162 Benign neoplasm: Long bones of lower limb

Additional Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Optical coherence tomography (OCT) use in diabetic retinopathy referral

EBI recommendation

Referral to/ assessment in secondary care face to face treatment clinics should NOT be accepted for any patient with diabetic maculopathy grading of M1 or above without an OCT scan and assessment of images to filter referrals. The OCT scan can be performed at either: Diabetic eye screening (DES) OR Local referral refinement.

Coding

Code script

Inpatient

```
WHEN      LEFT(der.Spell_Dominant_Procedure,4) IN ('C873', 'C911')
          AND ( APCS.Der_Diagnosis_All LIKE '%H36[08]%'
                OR APCS.Der_Diagnosis_All LIKE '%E103%'
                OR APCS.Der_Diagnosis_All LIKE '%E113%'
                OR APCS.Der_Diagnosis_All LIKE '%E123%'
                OR APCS.Der_Diagnosis_All LIKE '%E133%'
                OR APCS.Der_Diagnosis_All LIKE '%E143%'
                OR APCS.Der_Diagnosis_All LIKE '%O24[012349]%' )
          AND APCS.Admission_Method NOT LIKE '2%'
          THEN '3B_OCT_in_Diabetic_Retinopathy'


          Outpatient
WHEN      (OPA.Der_Procedure_All LIKE '%C873%'
          OR OPA.Der_Procedure_All LIKE '%C911%')
          AND ( OPA.Der_Diagnosis_All LIKE '%H36[08]%'
                OR OPA.Der_Diagnosis_All LIKE '%E103%'
                OR OPA.Der_Diagnosis_All LIKE '%E113%'
                OR OPA.Der_Diagnosis_All LIKE '%E123%'
                OR OPA.Der_Diagnosis_All LIKE '%E133%'
```

OR OPA.Der_Diagnosis_All LIKE '%E143%'
OR OPA.Der_Diagnosis_All LIKE '%O24[012349]%')
THEN '3B_OCT_in_Diabetic_Retinopathy'

Code Definitions

Procedure codes (OPCS)

C873 Tomography evaluation of retina

C911 Optical coherence tomography of anterior segment of eye

Diagnosis codes (ICD)

H360 Diabetic retinopathy (must be assigned with, either directly in front of or directly below E10-E14 or O24)

H368 Other retinal disorders in diseases classified elsewhere (must be assigned with, either directly in front of or directly below E10-E14 or O24)

E103 Type 1 diabetes mellitus - With ophthalmic complications

E113 Type 2 diabetes mellitus - With ophthalmic complications

E123 Malnutrition-related diabetes mellitus - With ophthalmic complications

E133 Other specified diabetes mellitus - With ophthalmic complications

E143 Unspecified diabetes mellitus - With ophthalmic complications

O240 Diabetes mellitus in pregnancy: Pre-existing type 1 diabetes mellitus*

O241 Diabetes mellitus in pregnancy: Pre-existing type 2 diabetes mellitus*

O242 Diabetes mellitus in pregnancy: Pre-existing malnutrition-related diabetes mellitus*

O243 Diabetes mellitus in pregnancy: Pre-existing diabetes mellitus, unspecified*

O244 Diabetes mellitus arising in pregnancy*

O249 Diabetes mellitus in pregnancy, unspecified*

* Unlikely to be O24

Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

ERCP in acute gallstone pancreatitis without cholangitis

EBI recommendation

Early endoscopic retrograde cholangiopancreatography (ERCP) for acute gallstone pancreatitis without cholangitis is not recommended, should only be performed if there is evidence of cholangitis or obstructive jaundice with imaging evidence of a stone in the common bile duct.

Coding

Code Script

```
 -- APCS Procedure
WHERE 1=1

-- Main Procedure
AND apcs.[Der_Procedure_All] LIKE '%J43[12389]%'

-- Diagnosis
AND (APCs.[Der_Diagnosis_All] LIKE '%K851%')

-- With no APCE Procedure within 30 days
AND (CASE WHEN apcep.[Primary_Procedure_Code] LIKE '%J43[12389]%'
AND datediff(dd,apcs.Admission_Date,[Primary_Procedure_Date])<=3 THEN 1
ELSE 0 END +
CASE WHEN apcep.[Procedure_Code_2] LIKE '%J43[12389]%' AND
datediff(dd,apcs.Admission_Date,[Procedure_Date_2])<=3 THEN 1 ELSE 0
END +
CASE WHEN apcep.[Procedure_Code_3] LIKE '%J43[12389]%' AND
datediff(dd,apcs.Admission_Date,[Procedure_Date_3])<=3 THEN 1 ELSE 0
END +
CASE WHEN apcep.[Procedure_Code_4] LIKE '%J43[12389]%' AND
datediff(dd,apcs.Admission_Date,[Procedure_Date_4])<=3 THEN 1 ELSE 0
END +
CASE WHEN apcep.[Procedure_Code_5] LIKE '%J43[12389]%' AND
datediff(dd,apcs.Admission_Date,[Procedure_Date_5])<=3 THEN 1 ELSE 0
```

END +

CASE WHEN apcep.[Procedure_Code_6] LIKE '%J43[12389]%' AND datediff(dd,apcs.Admission_Date,[Procedure_Date_6])<=3 THEN 1 ELSE 0 END +

CASE WHEN apcep.[Procedure_Code_7] LIKE '%J43[12389]%' AND datediff(dd,apcs.Admission_Date,[Procedure_Date_7])<=3 THEN 1 ELSE 0 END +

CASE WHEN apcep.[Procedure_Code_8] LIKE '%J43[12389]%' AND datediff(dd,apcs.Admission_Date,[Procedure_Date_8])<=3 THEN 1 ELSE 0 END +

CASE WHEN apcep.[Procedure_Code_9] LIKE '%J43[12389]%' AND datediff(dd,apcs.Admission_Date,[Procedure_Date_9])<=3 THEN 1 ELSE 0 END +

CASE WHEN apcep.[Procedure_Code_10] LIKE '%J43[12389]%' AND datediff(dd,apcs.Admission_Date,[Procedure_Date_10])<=3 THEN 1 ELSE 0 END +

CASE WHEN apcep.[Procedure_Code_11] LIKE '%J43[12389]%' AND datediff(dd,apcs.Admission_Date,[Procedure_Date_11])<=3 THEN 1 ELSE 0 END +

CASE WHEN apcep.[Procedure_Code_12] LIKE '%J43[12389]%' AND datediff(dd,apcs.Admission_Date,[Procedure_Date_12])<=3 THEN 1 ELSE 0 END +

CASE WHEN apcep.[Procedure_Code_13] LIKE '%J43[12389]%' AND datediff(dd,apcs.Admission_Date,[Procedure_Date_13])<=3 THEN 1 ELSE 0 END +

CASE WHEN apcep.[Procedure_Code_14] LIKE '%J43[12389]%' AND datediff(dd,apcs.Admission_Date,[Procedure_Date_14])<=3 THEN 1 ELSE 0 END +

CASE WHEN apcep.[Procedure_Code_15] LIKE '%J43[12389]%' AND datediff(dd,apcs.Admission_Date,[Procedure_Date_15])<=3 THEN 1 ELSE 0 END +

CASE WHEN apcep.[Procedure_Code_16] LIKE '%J43[12389]%' AND datediff(dd,apcs.Admission_Date,[Procedure_Date_16])<=3 THEN 1 ELSE 0 END +

CASE WHEN apcep.[Procedure_Code_17] LIKE '%J43[12389]%' AND datediff(dd,apcs.Admission_Date,[Procedure_Date_17])<=3 THEN 1 ELSE 0 END +

CASE WHEN apcep.[Procedure_Code_18] LIKE '%J43[12389]%' AND datediff(dd,apcs.Admission_Date,[Procedure_Date_18])<=3 THEN 1 ELSE 0 END +

CASE WHEN apcep.[Procedure_Code_19] LIKE '%J43[12389]%' AND datediff(dd,apcs.Admission_Date,[Procedure_Date_19])<=3 THEN 1 ELSE 0

END +
CASE WHEN apcep.[Procedure_Code_20] LIKE '%J43[12389]%' AND
datediff(dd,apcs.Admission_Date,[Procedure_Date_20])<=3 THEN 1 ELSE 0
END +
CASE WHEN apcep.[Procedure_Code_21] LIKE '%J43[12389]%' AND
datediff(dd,apcs.Admission_Date,[Procedure_Date_21])<=3 THEN 1 ELSE 0
END +
CASE WHEN apcep.[Procedure_Code_22] LIKE '%J43[12389]%' AND
datediff(dd,apcs.Admission_Date,[Procedure_Date_22])<=3 THEN 1 ELSE 0
END +
CASE WHEN apcep.[Procedure_Code_23] LIKE '%J43[12389]%' AND
datediff(dd,apcs.Admission_Date,[Procedure_Date_23])<=3 THEN 1 ELSE 0
END +
CASE WHEN apcep.[Procedure_Code_24] LIKE '%J43[12389]%' AND
datediff(dd,apcs.Admission_Date,[Procedure_Date_24])<=3 THEN 1 ELSE 0
END
)>0

Code Definitions

Procedure codes (OPCS)

J431 Endoscopic retrograde cholangiopancreatography and biopsy of lesion of ampulla of Vater

J432 Endoscopic retrograde cholangiopancreatography and biopsy of lesion of biliary or pancreatic system NEC

J433 Endoscopic retrograde cholangiopancreatography and collection of bile

J438 Other specified diagnostic endoscopic retrograde examination of bile duct and pancreatic duct

J439 Unspecified diagnostic endoscopic retrograde examination of bile duct and pancreatic duct

J451 Endoscopic retrograde pancreatography and biopsy of lesion of pancreas

J452 Endoscopic retrograde pancreatography and collection of pancreatic juice

J453 Endoscopic retrograde pancreatography through accessory ampulla of Vater

J458 Other specified diagnostic endoscopic retrograde examination of pancreatic duct

J459 Unspecified diagnostic endoscopic retrograde examination of pancreatic duct

Diagnosis codes (ICD)

K851 Biliary acute pancreatitis

Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Needle biopsy of prostate

EBI recommendation

Traditionally needle biopsies would have been taken for diagnosis of prostate cancer. However, studies now show that multiparametric magnetic resonance imaging (mpMRI) scans, which produce a detailed picture of the prostate gland, can more accurately detect clinically significant prostate cancer compared to biopsy alone. This proposal details who should be referred, how they should be triaged, over what time period, and how they should be managed, including the type of imaging, how to report, the need for biopsy and how this should be performed.

Coding

Code script

Inpatient

```
WHEN      LEFT(der.Spell_Dominant_Procedure,4) IN ('M702', 'M703')
          AND ( APCS.Der_Diagnosis_All LIKE '%R798%')
          AND (NOT (APCS.Der_Diagnosis_All LIKE '%Z804%')
              OR    APCS.Der_Diagnosis_All IS NULL )
          THEN '3I_Needle_Biopsy_Prostate'
```

Outpatient

```
WHEN      OPA.Der_Procedure_All LIKE '%M70[23]%'
          AND (NOT (OPA.Der_Diagnosis_All LIKE '%Z804%')
              OR  OPA.Der_Diagnosis_All IS NULL )
          THEN '3I_Needle_Biopsy_Prostate
```

Code Definitions

Procedure codes (OPCS)

Main

M702 Perineal needle biopsy of prostate

M703 Rectal needle biopsy of prostate

Other codes in policy

U211 Magnetic resonance imaging NEC (code does not reflect multiparametric nature)

Z422 Prostate (secondary to U211)

H444 Examination of rectum under anaesthetic*

H448 Other specified manipulation of rectum*

* No codes available for this and no SNOMED CT cross map, but might be coded to these

Diagnosis codes (ICD)

Inclusion

R798 Other specified abnormal findings of blood chemistry (ode is not specific to PSA)

Exclusion

Z804 Family history of malignant neoplasm of genital organs (not specific to the prostate. Might be excluded as a secondary diagnosis.

Additional Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Surgical intervention for chronic rhinosinusitis

EBI recommendation

First-line treatment is with appropriate medical therapy, which should include intranasal steroids and nasal saline irrigation. In the case of CRSwNP a trial of a short course of oral steroids should also be considered. Where first-line medical treatment has failed patients should be referred for diagnostic confirmation and they then may be considered for endoscopic sinus surgery.

Coding

Code Script

```
WHEN        ( (apcs.der_procedure_all like '%E081%'
                OR apcs.der_procedure_all like '%E1[257][123489]%'
                OR apcs.der_procedure_all like '%E1[34][1-9]%'
                OR apcs.der_procedure_all like '%E14[1-9]%'
                OR apcs.der_procedure_all like '%E16[1289]%'
                OR apcs.der_procedure_all like '%E641%')
            AND apcs.der_procedure_all like '%Y76[12]%' )
            AND (der.Spell_Primary_Diagnosis like '%J310%'
                OR der.Spell_Primary_Diagnosis like'J32[0123489]%'
                OR der.Spell_Primary_Diagnosis like'J33[0189]%' )
            AND APCS.Admission_Method not like ('2%')
            THEN '2C_sinus_surgery'
```

Code Definitions

Procedure codes (OPCS)

E081 Polypectomy of internal nose

E121 Ligation of maxillary artery using sublabial approach

E122 Drainage of maxillary antrum using sublabial approach

E123 Irrigation of maxillary antrum using sublabial approach

E124 Transantral neurectomy of vidian nerve using sublabial approach

E128 Other specified operations on maxillary antrum using sublabial approach

E129 Unspecified operations on maxillary antrum using sublabial approach

E131 Drainage of maxillary antrum NEC

E132 Excision of lesion of maxillary antrum

E133 Intranasal antrostomy

E134 Biopsy of lesion of maxillary antrum

E135 Closure of fistula between maxillary antrum and mouth

E136 Puncture of maxillary antrum

E137 Neurectomy of vidian nerve NEC

E138 Other specified other operations on maxillary antrum

E139 Unspecified other operations on maxillary antrum

E141 External frontoethmoidectomy

E142 Intranasal ethmoidectomy

E143 External ethmoidectomy

E144 Transantral ethmoidectomy

E145 Bone flap to frontal sinus

E146 Trephine of frontal sinus

E147 Median drainage of frontal sinus

E148 Other specified operations on frontal sinus

E149 Unspecified operations on frontal sinus

E151 Drainage of sphenoid sinus

E152 Puncture of sphenoid sinus

E153 Repair of sphenoidal sinus

E154 Excision of lesion of sphenoid sinus

E158 Other specified operations on sphenoid sinus

E159 Unspecified operations on sphenoid sinus

E161 Frontal sinus osteoplasty

E162 Drainage of frontal sinus NEC

E168 Other specified other operations on frontal sinus

E169 Unspecified other operations on frontal sinus

E171 Excision of nasal sinus NEC

E172 Excision of lesion of nasal sinus NEC

E173 Biopsy of lesion of nasal sinus NEC

E174 Lateral rhinotomy into nasal sinus NEC

E178 Other specified operations on unspecified nasal sinus

E179 Unspecified operations on unspecified nasal sinus

E641 Endoscopic extirpation of lesion of nasal cavity

Y761 Functional endoscopic sinus surgery (secondary to one of the codes above)

Y762 Functional endoscopic nasal surgery (secondary to one of the codes above)

Diagnosis codes (ICD)

J310 Chronic rhinitis

J320 Chronic maxillary sinusitis

J321 Chronic frontal sinusitis

J322 Chronic ethmoidal sinusitis

J323 Chronic sphenoidal sinusitis

J324 Chronic pansinusitis

J328 Other chronic sinusitis

J329 Chronic sinusitis, unspecified

J330 Polyp of nasal cavity

J331 Polypoid sinus degeneration

J338 Other polyp of sinus

J339 Nasal polyp, unspecified

Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Scans for shoulder pain and guided injections for shoulder pain

EBI recommendation

Scans for Shoulder pain

X-rays should be used routinely as the first line of radiological investigation for the diagnosis of most routine shoulder pathology. This practice should be followed in primary, intermediate and secondary care. Primary care patients that are deemed urgent or have red flags should be referred urgently to the appropriate secondary care team.

Image Guided Injections for Shoulder pain

Evidence does not support the use of guided subacromial injections over unguided subacromial injections in the treatment of subacromial shoulder pain. Other image guided shoulder injections should only be offered under the guidance of a secondary care shoulder service.

Coding

Code Script

```
WHEN      ( (opa.Der_Procedure_All like '%U13[23456]%'
               OR opa.Der_Procedure_All like '%U21[1267]%'
               OR opa.Der_Procedure_All like '%U365%' )
          AND (opa.Der_Procedure_All like '%Z54[289]%'
               OR opa.Der_Procedure_All like '%Z68[89]%'
               OR opa.Der_Procedure_All like '%Z81[123489]%') )
          AND
          ISNULL(opa.Age_at_Start_of_Episode_SUS,opa.Der_Age_at_CD
          S_Activity_Date) between 19 AND 120
          THEN '2W_I_shoulder_imaging_I'

WHEN      (opa.Der_Procedure_All like '%W90[34]%'
          AND (opa.Der_Procedure_All like '%Y53[123456789]%'
               OR opa.Der_Procedure_All like '%Y681%'
               OR opa.Der_Procedure_All like '%Z81[34]%') )
```

```
AND
ISNULL(opa.Age_at_Start_of_Episode_SUS,opa.Der_Age_at_CD
S_Activity_Date) between 19 AND 120
THEN '2W_II_shoulder_guided_injections'
```

Code Definitions

Procedure codes (OPCS)

U132 Ultrasound of bone

U133 Magnetic resonance imaging of bone

U134 Plain x-ray of joint

U135 Plain x-ray of bone

U136 Computed tomography of bone

U211 Magnetic resonance imaging NEC

U212 Computed tomography NEC

U216 Ultrasound scan NEC

U217 Plain x-ray NEC

U365 Cone beam computed tomography NEC

Z542 Rotator cuff of shoulder*

Z548 Specified muscle of shoulder or upper arm NEC*

Z549 Muscle of shoulder or upper arm NEC*

Z688 Specified bone of shoulder girdle NEC*

Z689 Bone of shoulder girdle NEC*

Z811 Sternoclavicular joint*

Z812 Acromioclavicular joint*

Z813 Glenohumeral joint*

Z814 Shoulder joint*

Z818 Specified joint of shoulder girdle or arm NEC*

Z819 Joint of shoulder girdle or arm NEC*

* Secondary to one of the above U codes

W903 Injection of therapeutic substance into joint

W904 Injection into joint NEC

Y531 Approach to organ under radiological control**

Y532 Approach to organ under ultrasonic control**

Y533 Approach to organ under computed tomography scan control**

Y534 Approach to organ under fluoroscopic control**

Y535 Approach to organ under image intensifier**

Y536 Approach to organ under video control**

Y537 Approach to organ under magnetic resonance imaging control**

Y538 Other specified approach to organ under image control**

Y539 Unspecified approach to organ under image control**

Y681 Approach to organ under contrast enhanced ultrasonic control**

Z813 Glenohumeral joint**

Z814 Shoulder joint**

** Secondary to one of the above W codes

Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Arthroscopic shoulder decompression for subacromial pain

EBI recommendation

Recent research has indicated that in patients with pure subacromial impingement (with no other associated diagnoses such as rotator cuff tears, calcific tendinopathy and acromio-clavicular joint pain), non-operative management with a combination of exercise and physiotherapy is effective in the majority of cases. Patients suffering with persistent symptoms, despite appropriate non-operative management, should be given the option to choose decompression surgery.

Coding

Code script

```
WHEN      ( (LEFT(der.Spell_Dominant_Procedure,4) ='O291'
          AND apcs.der_procedure_all like '%Y767%')
              OR (LEFT(der.Spell_Dominant_Procedure,4) ='W844'
          AND apcs.der_procedure_all like '%Z812%')
              OR (LEFT(der.Spell_Dominant_Procedure,4) ='W572'
          AND apcs.der_procedure_all like '%Z812%') )
          AND apcs.der_diagnosis_all like '%M754%'
          AND apcs.der_diagnosis_all not like '%M751%'
          AND APCS.Admission_Method not like ('2%')
          THEN 'L_should_decom'
```

Code Definitions

Procedure codes (OPCS)

Main

O291 Subacromial decompression

Y767 Arthroscopic approach to joint (must be supplementary to O291)

W844 Endoscopic decompression of joint (may be performed along with O291)

Z812 Acromioclavicular joint (secondary to W844)

W572 Endoscopic decompression of joint (may be performed along with O291)

Z812 Acromioclavicular joint (secondary to W572)

Potential

O291 Subacromial decompression (when Y767 is not included in the supplementary position this indicates an open procedure)

Diagnosis codes (ICD)

Includes

M754 Impingement syndrome of shoulder

Exclusions

M751 Rotator cuff syndrome (code for rotator cuff tear)

Additional Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Removal of benign skin lesions

EBI recommendation

Removal of benign skin lesions means treating asymptomatic lumps, bumps or tags on the skin that are not suspicious of cancer. Treatment carries a small risk of infection, bleeding or scarring and is not usually offered by the NHS if it is just to improve appearance. In certain cases, treatment (surgical excision or cryotherapy) may be offered if certain criteria are met.

Code Script

Code script

WHEN   LEFT(der.Spell_Dominant_Procedure,4) in 'S063','S064','S065','S066','S067','S068','S069','S081','S082','S083','S088','S089','S091','S092','S093','S094','S095','S098','S099','S101','S102','S111','S112','B353','C101','C108','C109','C111','C112','C118','C119','C121','C122','C123','C124','C125','C126','C128','C129','D021','D022','D028','D029','E091','E092','E096','E098','E099','F011','F018','F019','F021','F022','F028','F029','N012','N013','N018','N019','N242','N271','N272','N273','N278','N279','P054','P058','P059','P061','P062','P063','P065','P068','P069','P111','P112','P113','P114','P118','P119','T291','T292','T293','T298','T299')

AND not (apcs.der_diagnosis_all like '%C4[34][0123456789]%')

AND not (apcs.der_diagnosis_all like '%D0[34][0123456789]%' or apcs.der_diagnosis_all like '%L570%')

AND APCS.Admission_Method not like ('2%')

THEN 'F_skin_lesions'

Code Definitions

Procedure codes (OPCS)

S063   Shave excision of lesion of skin of head or neck

S064   Shave excision of lesion of skin NEC

S065   Excision of lesion of skin of head or neck NEC

S066   Re-excision of skin margins of head or neck

S067   Re-excision of skin margins NEC

S068 Other specified other excision of lesion of skin

S069 Unspecified other excision of lesion of skin

S081 Curettage and cauterisation of lesion of skin of head or neck

S082 Curettage and cauterisation of lesion of skin NEC

S083 Curettage of lesion of skin of head or neck NEC

S088 Other specified curettage of lesion of skin

S089 Unspecified curettage of lesion of skin

S091 Laser destruction of lesion of skin of head or neck

S092 Laser destruction of lesion of skin NEC

S093 Photodestruction of lesion of skin of head or neck NEC

S094 Infrared photocoagulation of lesion of skin of head or neck

S095 Infrared photocoagulation of lesion of skin NEC

S098 Other specified photodestruction of lesion of skin

S099 Unspecified photodestruction of lesion of skin

S101 Cauterisation of lesion of skin of head or neck NEC

S102 Cryotherapy to lesion of skin of head or neck

S111 Cauterisation of lesion of skin NEC

S112 Cryotherapy to lesion of skin NEC

B353 Extirpation of lesion of nipple

C101 Excision of lesion of eyebrow

C108 Other specified operations on eyebrow

C109 Unspecified operations on eyebrow

C111 Excision of lesion of canthus

C112 Destruction of lesion of canthus

C118 Other specified operations on canthus

C119 Unspecified operations on canthus

C121 Excision of lesion of eyelid NEC

C122 Cauterisation of lesion of eyelid

C123 Cryotherapy to lesion of eyelid

C124 Curettage of lesion of eyelid

C125 Destruction of lesion of eyelid NEC

C126 Wedge excision of lesion of eyelid

C128 Other specified extirpation of lesion of eyelid

C129 Unspecified extirpation of lesion of eyelid

D021 Excision of lesion of external ear

D022 Destruction of lesion of external ear

D028 Other specified extirpation of lesion of external ear

D029 Unspecified extirpation of lesion of external ear

E091 Excision of lesion of external nose

E092 Destruction of lesion of external nose NEC

E096 Laser destruction of lesion of external nose

E098 Other specified operations on external nose

E099 Unspecified operations on external nose

F011 Excision of vermilion border of lip and advancement of mucosa of lip

F018 Other specified partial excision of lip

F019 Unspecified partial excision of lip

F021 Excision of lesion of lip

F022 Destruction of lesion of lip

F028 Other specified extirpation of lesion of lip

F029 Unspecified extirpation of lesion of lip

N012 Excision of lesion of scrotum

N013 Destruction of lesion of scrotum

N018 Other specified extirpation of scrotum

N019 Unspecified extirpation of scrotum

N242 Operations on skin of male perineum NEC

N271 Excision of lesion of penis

N272 Cauterisation of lesion of penis

N273 Destruction of lesion of penis NEC

N278 Other specified extirpation of lesion of penis

N279 Unspecified extirpation of lesion of penis

P054 Excision of lesion of vulva NEC

P058 Other specified excision of vulva

P059 Unspecified excision of vulva

P061 Laser destruction of lesion of vulva

P062 Cryosurgery to lesion of vulva

P063 Cauterisation of lesion of vulva

P065 Excision of lesion of labia

P068 Other specified extirpation of lesion of vulva

P069 Unspecified extirpation of lesion of vulva

P111 Excision of lesion of female perineum

P112 Laser destruction of lesion of female perineum

P113 Cauterisation of lesion of female perineum

P114 Destruction of lesion of female perineum NEC

P118 Other specified extirpation of lesion of female perineum

P119 Unspecified extirpation of lesion of female perineum

T291 Excision of umbilicus

T292 Excision of urachus

T293 Extirpation of lesion of umbilicus

T298 Other specified operations on umbilicus

T299 Unspecified operations on umbilicus

Diagnosis codes (ICD)

Exclusions

C430 Malignant melanoma of lip

C431 Malignant melanoma of eyelid, including canthus

C432 Malignant melanoma of eyelid, including canthus

C433 Malignant melanoma of other and unspecified parts of face

C434 Malignant melanoma of scalp and neck

C435 Malignant melanoma of trunk

C436 Malignant melanoma of upper limb, including shoulder

C437 Malignant melanoma of lower limb, including hip

C438 Overlapping malignant melanoma of skin

C439 Malignant melanoma of skin, unspecified

C440 Other malignant neoplasms of skin of lip

C441 Other malignant neoplasms of skin of eyelid, including canthus

C442 Other malignant neoplasms of skin of ear and external auricular canal

C443 Other malignant neoplasms of skin of other and unspecified parts of face

C444 Other malignant neoplasms of skin of scalp and neck

C445 Other malignant neoplasms of skin of trunk

C446 Other malignant neoplasms of skin of upper limb, including shoulder

C447 Other malignant neoplasms of skin of lower limb, including hip

C448 Other malignant neoplasms of skin - Overlapping lesion of skin

C449 Other malignant neoplasms of skin, unspecified

D030 Melanoma in situ of lip

D031 Melanoma in situ of eyelid, including canthus

D032 Melanoma in situ of ear and external auricular canal

D033 Melanoma in situ of other and unspecified parts of face

D034 Melanoma in situ of scalp and neck

D035 Melanoma in situ of trunk

D036 Melanoma in situ of upper limb, including shoulder

D037 Melanoma in situ of lower limb, including hip

D038 Melanoma in situ of other sites

D039 Melanoma in situ, unspecified

D040 Carcinoma in situ of skin of lip

D041   Carcinoma in situ of skin of eyelid, including canthus

D042   Carcinoma in situ of skin of ear and external auricular canal

D043   Carcinoma in situ of skin of other and unspecified parts of face

D044   Carcinoma in situ of skin of scalp and neck

D045   Carcinoma in situ of skin of trunk

D046   Carcinoma in situ of skin of upper limb, including shoulder

D047   Carcinoma in situ of skin of lower limb, including hip

D048   Carcinoma in situ of skin of other sites

D049   Carcinoma in situ of skin, unspecified

L570   Actinic keratosis

Additional Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Adult Snoring Surgery (in the absence of OSA)

EBI recommendation

Snoring surgery should not be offered for snoring (in people who don't have obstructive sleep apnoea (OSA)) as it does not provide any additional benefit compared to non-surgical treatments and has severe complications.

Coding

Code script

WHEN   (LEFT(der.Spell_Dominant_Procedure,4) in ('F324','F325','F326')
        AND der.Spell_Primary_Diagnosis like '%R065%')
        AND apcs.der_diagnosis_all not like '%G473%'
        AND isnull(APCS.Age_At_Start_of_Spell_SUS,APCS.Der_Age_at_CDS_Activity_Date) between 19 and 120
        AND APCS.Admission_Method not like ('2%')
        THEN 'A_snoring'

Code Definitions

Procedure codes (OPCS)

Main

F324   Operations on uvula NEC

F325   Uvulopalatopharyngoplasty

F326   Uvulopalatoplasty

Potential

F328   Other specified other operations on palate

Y067   Radiofrequency excision of lesion of organ NOC (Secondary to F328)

Y081   Laser excision of organ NOC (Secondary to F328)

Diagnosis codes (ICD)

Includes

R065 Mouth breathing

Exclusion
G473 Sleep apnoea

Additional Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Tonsillectomy for recurrent tonsillitis

EBI recommendation

Recurrent sore throats are a very common condition that present a considerable health burden. In most cases they can be treated with conservative measures. In some cases, where there are recurrent, documented episodes of acute tonsillitis that are disabling to normal function, then tonsillectomy is beneficial, but it should only be offered when the frequency of episodes set out by the Scottish Intercollegiate Guidelines Network criteria are met.

Coding

Code script

```
WHEN      LEFT(der.Spell_Dominant_Procedure,4) in
('F341','F342','F343','F344','F345','F346','F347','F348','F349','F361')
          AND (apcs.der_diagnosis_all like '%J030%'
              OR apcs.der_diagnosis_all like '%J038%'
              OR apcs.der_diagnosis_all like '%J039%'
              OR apcs.der_diagnosis_all like '%J350%')
          AND not (apcs.der_diagnosis_all like '%C[0-8][0-9]%'
          OR apcs.der_diagnosis_all like '%C9[0-7]%')
          AND not (apcs.der_diagnosis_all like '%G473%'
              OR apcs.der_diagnosis_all like '%J36%'
              OR apcs.der_diagnosis_all like '%J390%')
           AND APCS.Admission_Method not like ('2%')
          THEN 'H_tonsil'
```

Code Definitions

Procedure codes (OPCS)

F341   Bilateral dissection tonsillectomy

F342   Bilateral guillotine tonsillectomy

F343   Bilateral laser tonsillectomy

F344   Bilateral excision of tonsil NEC

F345   Excision of remnant of tonsil

F346   Excision of lingual tonsil

F347   Bilateral coblation tonsillectomy

F348   Other specified excision of tonsil

F349   Unspecified excision of tonsil

F351   Bilateral intracapsular tonsillectomy NEC

F352   Bilateral intracapsular coblation tonsillectomy

F358   Other specified intracapsular excision of tonsil

F359   Unspecified intracapsular excision of tonsil

F361   Destruction of tonsil

Includes

J030   Streptococcal tonsillitis

J038   Acute tonsillitis due to other specified organisms

J039   Acute tonsillitis, unspecified

J350   Chronic tonsillitis

Exclusions

C00-C97   Malignant neoplasms

G473   Sleep apnoea

J36X   Peritonsillar abscess

J390   Retropharyngeal and parapharyngeal abscess

Additional Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and
apcs.der_diagnosis_all not like '%D0%' and
apcs.der_diagnosis_all not like '%D3[789]%' and
apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Trigger finger release

EBI recommendation

Trigger finger often resolves over time and is often a nuisance rather than a serious problem. If treatment is necessary steroid injection can be considered. Surgery should only be offered in specific cases according to NICE accredited guidelines by the British Society for Surgery to the Hand, where alternative measures have not been successful and persistent or recurrent triggering, or a locked finger occurs.

Coding

Code script

WHEN   LEFT(der.Spell_Dominant_Procedure,4) in ('T691','T692','T698','T699','T701','T702','T711','T718','T719','T723','T728','T729')

          AND (der.Spell_Primary_Diagnosis like '%M653%'
              OR der.Spell_Primary_Diagnosis like '%M6584%'
              OR der.Spell_Primary_Diagnosis like '%M6594%')
          AND isnull(APCS.Age_At_Start_of_Spell_SUS,APCS.Der_Age_at_CDS_Activity_Date) between 19 AND 120
          AND APCS.Admission_Method not like ('2%')
          THEN 'P_trigger_fing'

Code Definitions

Procedure codes (OPCS)

Main

T691 Primary tenolysis

T692 Revision of tenolysis

T698 Other specified freeing of tendon

T699 Unspecified freeing of tendon

T701 Subcutaneous tenotomy

T702 Tenotomy NEC

T711   Tenosynovectomy

T718   Other specified excision of sheath of tendon

T719   Unspecified excision of sheath of tendon

T723   Release of constriction of sheath of tendon (this is the code that should be used for this procedure)

T728   Other specified other operations on sheath of tendon

T729   Unspecified other operations on sheath of tendon

Z563   Flexor digitorum superficialis (secondary to T code)

Z564   Flexor digitorum profundus (secondary to T code)

Z894   Hand NEC (secondary to T code)

Z895   Thumb NEC (secondary to T code)

Z896   Finger NEC (secondary to T code)

Z897   Multiple digits of hand NEC (secondary to T code)

Potential

T703   Adjustment to muscle origin of tendon

T705   Lengthening of tendon

T708   Other specified adjustment to length of tendon

T709   Unspecified adjustment to length of tendon

Diagnosis codes (ICD)

M653   Trigger finger

M6584   Other synovitis and tenosynovitis - Hand

M6594   Synovitis and tenosynovitis, unspecified - Hand

Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Troponin test

EBI recommendation

Troponin blood testing should be used to diagnose acute myocardial infarction. It should only be used in cases where a clinical diagnosis of acute coronary syndrome or myocarditis is suspected or for prognostic purposes when pulmonary embolism is confirmed.

Coding

Code Script

WHEN   ecds.Der_EC_Investigation_All like '%105000003%'

        OR ecds.Der_EC_Investigation_All like '%121870001%'

        OR ecds.Der_EC_Investigation_All like '%121871002%' OR ecds.Der_EC_Investigation_All like '%313724009%'

        OR ecds.Der_EC_Investigation_All like '%313616005%' OR ecds.Der_EC_Investigation_All like '%314068007%'

        OR ecds.Der_EC_Investigation_All like '%166794009%' OR ecds.Der_EC_Investigation_All like '%105001004%'

        OR ecds.Der_EC_Investigation_All like '%784261000000103%'

     THEN '2F_Troponintest'

Code Definitions

Diagnosis codes (ICD)

R070 Pain in throat

R071 Chest pain on breathing

R072 Precordial pain

R073 Other chest pain

R074 Chest pain, unspecified

SNOMED CT

105000003 Troponin measurement

121870001 Troponin I measurement

121871002 Troponin T measurement

313724009 Plasma troponin I measurement

313616005 Serum troponin I measurement

314068007 Plasma troponin T measurement

166794009 Serum troponin T measurement

105001004 Troponin T cardiac measurement

784261000000103 High sensitivity cardiac troponin T measurement

Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Varicose vein surgery

EBI recommendation

Intervention, in terms of endovenous thermal (laser ablation, and radiofrequency ablation), ultrasound guided foam sclerotherapy, open surgery (ligation and stripping), is cost effective for managing symptomatic varicose veins compared to no treatment or the use of compression hosiery. For patients whose veins are purely cosmetic and are not associated with any symptoms do not refer for NHS treatment.

Coding

Code script

WHEN   LEFT(der.Spell_Dominant_Procedure,4) in ('L841','L842','L843','L844','L845','L846','L848','L849','L851','L852','L853','L858','L859','L861','L862','L863','L868','L869','L871','L872','L873','L874','L875','L876','L877','L878','L879','L881','L882','L883','L888','L889')

        AND (der.Spell_Primary_Diagnosis like '%I83[0129]%'

            OR der.Spell_Primary_Diagnosis like '%O220%'

            OR der.Spell_Primary_Diagnosis like '%O878%'

            OR der.Spell_Primary_Diagnosis like '%Q278%')

        AND APCS.Admission_Method not like ('2%')

        THEN 'Q_var_veins'

Code Definitions

Procedure codes (OPCS)

L841   Combined operations on primary long saphenous vein

L842   Combined operations on primary short saphenous vein

L843   Combined operations on primary long and short saphenous vein

L844   Combined operations on recurrent long saphenous vein

L845   Combined operations on recurrent short saphenous vein

L846   Combined operations on recurrent long and short saphenous vein

L848   Other specified combined operations on varicose vein of leg

L849   Unspecified combined operations on varicose vein of leg

L851 Ligation of long saphenous vein

L852 Ligation of short saphenous vein

L853 Ligation of recurrent varicose vein of leg

L858 Other specified ligation of varicose vein of leg

L859 Unspecified ligation of varicose vein of leg

L861 Injection of sclerosing substance into varicose vein of leg NEC

L862 Ultrasound guided foam sclerotherapy for varicose vein of leg

L863 Injection of glue into varicose vein of leg

L868 Other specified injection into varicose vein of leg

L869 Unspecified injection into varicose vein of leg

L871 Stripping of long saphenous vein

L872 Stripping of short saphenous vein

L873 Stripping of varicose vein of leg NEC

L874 Avulsion of varicose vein of leg

L875 Local excision of varicose vein of leg

L876 Incision of varicose vein of leg

L877 Transilluminated powered phlebectomy of varicose vein of leg

L878 Other specified other operations on varicose vein of leg

L879 Unspecified other operations on varicose vein of leg

L881 Percutaneous transluminal laser ablation of long saphenous vein

L882 Radiofrequency ablation of varicose vein of leg

L883 Percutaneous transluminal laser ablation of varicose vein of leg NEC

L888 Other specified transluminal operations on varicose vein of leg

L889 Unspecified transluminal operations on varicose vein of leg

Diagnosis codes (ICD)

I830 Varicose veins of lower extremities with ulcer

I831 Varicose veins of lower extremities with inflammation

I832 Varicose veins of lower extremities with both ulcer and inflammation

I839 Varicose veins of lower extremities without ulcer or inflammation

O220 Varicose veins of lower extremity in pregnancy

O878 Other venous complications in the puerperium (this code is used to classify conditions puerperal varicose veins, but also classifies other venous puerperal complications)

Q278 Other specified congenital malformations of peripheral vascular system (this code is used to classify congenital varicose veins, but also classifies other peripheral vascular complications)

Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'

Vertebral augmentation (vertebroplasty or kyphoplasty) for painful osteoporotic vertebral fractures

EBI recommendation

Vertebroplasty (VP) or kyphoplasty (KP) should be offered as a treatment for painful osteoporotic vertebral fractures on a case-by-case basis.

Coding

Code Script

WHEN   LEFT(der.Spell_Dominant_Procedure,4) in ('V444','V445')
AND der.Spell_Primary_Diagnosis like '%M80[01234589]%'
AND isnull(APCS.Age_At_Start_of_Spell_SUS,APCS.Der_Age_at_CDS_Activity_Date) between 19 AND 120
THEN '2V_vertebroplasty'

Code Definitions

Procedure codes (OPCS)

V444 Vertebroplasty of fracture of spine

V445 Balloon kyphoplasty of fracture of spine

Diagnosis codes (ICD)

M800 Postmenopausal osteoporosis with pathological fracture

M801 Postoophorectomy osteoporosis with pathological fracture

M802 Osteoporosis of disuse with pathological fracture

M803 Postsurgical malabsorption osteoporosis with pathological fracture

M804 Drug-induced osteoporosis with pathological fracture

M805 Idiopathic osteoporosis with pathological fracture

M808 Other osteoporosis with pathological fracture

M809 Unspecified osteoporosis with pathological fracture

Exclusions

apcs.der_diagnosis_all not like '%C[0-9][0-9]%' and

apcs.der_diagnosis_all not like '%D0%' and

apcs.der_diagnosis_all not like '%D3[789]%' and

apcs.der_diagnosis_all not like '%D4[012345678]%'

This code captures code in the ranges C00-C99, D00-D09 and D37-D48.
Age range: the codes use the following age ranges 0-18 for children and 19-120 for adults.

-- Private Appointment Exclusion

AND apcs.Administrative_Category<>'02'