Supplementary Figure S1*. ICD-10 codes by costing group (I-IV) for primary hospital admissions of invasive GAS infection cases. Only ICD-10 groups with ≥10 total cases are shown. ICD-10 codes have been grouped using Clinical Classification Software (Clinical Classifications Software for ICD-10 Data)*



\* Clinical Classification Software group names have been abbreviated for ease of presentation.

Supplementary Figure S2. *ICD-10 codes by costing group (I-IV) of secondary hospital admissions for cases of invasive GAS infection. Only ICD-10 groups with ≥10 total cases are shown. ICD-10 codes have been grouped using Clinical Classification Software (Clinical Classifications Software for ICD-10 Data). Secondary admissions associated with nosocomial invasive GAS infection cases have been removed*



\* Clinical Classification Software group names have been abbreviated for ease of presentation.

Supplementary Figure S3. *Consistency of diagnoses codes (ICD-10), procedure codes (OPCS4), and healthcare resource groups (HRG4) for primary hospital admissions of invasive GAS infection cases*







\* Only including codes which are recorded for ≥1% of the annual primary invasive GAS admissions

Supplementary Figure S4. *Healthcare resource group subchapters by costing group (I-IV) for primary hospital admissions of invasive GAS infection cases*



\* Subchapter names have been abbreviated for ease of presentation.

Supplementary Table S1*. ICD-10 codes used to determine primary hospital admissions with diagnosis of invasive group A streptococcal (GAS) infection.* ICD-10 codes were considered if the name mentioned abscess, cellulitis, empyema, endometriosis, endocarditis, fasciitis, gangrene, infective arthritis, meningitis, myositis, osteomyelitis, peritonitis, pneumonia, puerperal sepsis, sepsis, septicaemia, toxic shock syndrome, unspecified streptococcal infection. 24 ICD-10 codes with mention of a named organism/group of organisms which excluded GAS infection were removed.†

| **Clinical classification software group name** | **ICD-10 code** | **ICD-10 description** | **HRG4 codes** |
| --- | --- | --- | --- |
| Acute and chronic tonsillitis | J36 | Peritonsillar abscess | CZ22, PA63, WA14, SB97 |
| Anal and rectal conditions | K61.0 | Anal abscess | FZ41, PA26, WA14, SB97 |
| Appendicitis and other appendiceal conditions | K35.0 | Acute appendicitis with generalized peritonitis | FZ40, PA16, WA14, SB97 |
| K35.1 | Acute appendicitis with peritoneal abscess | FZ40, PA26, WA14, SB97 |
| Bacterial infection; unspecified site | A49.1 | Streptococcal infection, unspecified | WA09, PA17, PA45, WA14, SB97 |
| Diseases of mouth; excluding dental | K12.2 | Cellulitis and abscess of mouth | CZ22, PA63, WA14, SB97 |
| Disorders of teeth and jaw | K04.7 | Periapical abscess without sinus |
| Diverticulosis and diverticulitis | K57.0 | Diverticulosis of small intestine with perforation and abscess | FZ33, PA25, WA14, SB97 |
| K57.2 | Diverticulosis of large intestine with perforation and abscess | FZ45, PA25, WA14, SB97 |
| K57.8 | Diverticulosis of intestine, part unspecified, with perforation and abscess | FZ45, PA25, WA14, SB97 |
| Endometriosis | N80.1 | Endometriosis of ovary | MB03, WA14, SB97 |
| N80.8 | Other endometriosis |
| Gangrene | R02 | Gangrene, not elsewhere classified | QZ17, PA23, WA14, SB97 |
| Heart valve disorders | I38 | Endocarditis, valve unspecified | EB02, PA23, WA14, SB97 |
| Infective arthritis and osteomyelitis (except that caused by tuberculosis or sexually transmitted disease) | M00 | Pyogenic arthritis | HD25, PA16, PA45, WA14, SB97 |
| M00.2 | Other streptococcal arthritis and polyarthritis |
| M00.8 | Arthritis and polyarthritis due other spec bacterial agents |
| M00.9 | Pyogenic arthritis, unspecified |
| M02.9 | Other streptococcal arthritis and polyarthritis-Site unspecified | HD23, PA34, WA14, SB97 |
| M46.3 | Infection of intervertebral disc (pyogenic) | HC31, PA16, WA14, SB97 |
| M86.1 | Other acute osteomyelitis | MB01, PA57, PA58, WA14, SB97 |
| M86.3 | Chronic multifocal osteomyelitis |
| M86.4 | Chronic osteomyelitis with draining sinus |
| M86.6 | Other chronic osteomyelitis |
| M86.8 | Other osteomyelitis |
| M86.9 | Osteomyelitis, unspecified | HD25, PA16, PA45, WA14, SB97 |
| M87.9 | Osteonecrosis, unspecified | MB01, PA57, PA58, WA14, SB97 |
| Inflammatory conditions of male genital organs | N45.0 | Orchitis, epididymitis and epididymo-orchitis with abscess | LB35, PA70, WA14, SB97 |
| Inflammatory diseases of female pelvic organs | A48.3 | Toxic shock syndrome | WA03, PA16, WA14, SB97 |
| N73.1 | Chronic parametritis and pelvic cellulitis | MB04, WA14, SB97 |
| N73.2 | Unspecified parametritis and pelvic cellulitis |
| N73.3 | Female acute pelvic peritonitis |
| N73.5 | Female pelvic peritonitis, unspecified |
| N76.4 | Abscess of vulva |
| Meningitis (except that caused by tuberculosis or sexually transmitted disease) | G00 | Bacterial meningitis, not elsewhere classified | AA22, PA16, PA45, WA14, SB97 |
| G00.2 | Streptococcal meningitis |
| G00.8 | Other bacterial meningitis |
| G00.9 | Bacterial meningitis, unspecified |
| G03.8 | Meningitis due to other specified causes |
| G03.9 | Meningitis, unspecified |
| Other CNS infection and poliomyelitis | G06.0 | Intracranial abscess and granuloma | AA22, PA16, WA14, SB97 |
| G06.1 | Intraspinal abscess and granuloma |
| G06.2 | Extradural and subdural abscess, unspecified |
| Other complications of birth; puerperium affecting management of mother | O85 | Puerperal sepsis | NZ08, NZ05, WA14, SB97 |
| O86.8 | Other specified puerperal infections |
| Other connective tissue disease | M60.0 | Infective myositis | HD25, PA16, WA14, SB97 |
| M60.9 | Myositis, unspecified |
| M72.5 | Fasciitis, not elsewhere classified | HD21, PA34, WA14, SB97, EA10 |
| Other ear and sense organ disorders | H60.1 | Cellulitis of external ear | CZ23, PA18, PA45, WA14, SB97 |
| Other lower respiratory disease | J85.2 | Abscess of lung without pneumonia | DZ10, PA14, PA45, WA14, SB97 |
| Other perinatal conditions | P23.6 | Congenital pneumonia due to other bacterial agents | UZ03, PB02, WA14, SB97 |
| P23.9 | Congenital pneumonia, unspecified | DZ11, PA59, PB02, WA14, SB97 |
| P36.0 | Sepsis of newborn due to streptococcus, group B | UZ03, PB02, WA14, SB97 |
| P36.1 | Sepsis of newborn due to other and unspecified streptococci |
| P36.8 | Other bacterial sepsis of newborn |
| P36.9 | Bacterial sepsis of newborn, unspecified |
| Other upper respiratory disease | J34.0 | Abscess, furuncle and carbuncle of nose | CZ21, PA63, WA14, SB97 |
| J39.0 | Retropharyngeal and parapharyngeal abscess | CZ22, PA63, WA14, SB97 |
| J39.1 | Other abscess of pharynx |
| Peri-; endo-; and myocarditis; cardiomyopathy (except that caused by tuberculosis or sexually transmitted disease) | I33.0 | Acute and subacute infective endocarditis | EB02, PA23, WA14, SB97 |
| I33.9 | Acute and subacute endocarditis, unspecified |
| Peritonitis and intestinal abscess | K63.0 | Abscess of intestine | FZ47, PA26, WA14, SB97 |
| K65.0 | Generalized (acute) peritonitis | FZ47, PA25, WA14, SB97 |
| K65.8 | Other peritonitis |
| K65.9 | Peritonitis, unspecified |
| Pneumonia (except that caused by tuberculosis or sexually transmitted disease) | J15.3 | Pneumonia due to streptococcus, group B | DZ11, PA14, PA45, WA14, SB97 |
| J15.4 | Pneumonia due to other streptococci |
| J15.8 | Pneumonia due to other specified bacteria |
| J15.9 | Unspecified bacterial pneumonia |
| J18.0 | Bronchopneumonia, unspecified organism | DZ23, PA14, PA45, WA14, SB97 |
| J18.1 | Lobar pneumonia, unspecified organism | DZ11, PA14, PA45, WA14, SB97 |
| J18.2 | Hypostatic pneumonia, unspecified organism | DZ23, PA14, PA45, WA14, SB97 |
| J18.8 | Other pneumonia, unspecified organism | DZ11, PA14, PA45, WA14, SB97 |
| J18.9 | Pneumonia, unspecified organism |
| J85.0 | Gangrene and necrosis of lung | DZ10, PA14, PA45, WA14, SB97 |
| J85.1 | Abscess of lung with pneumonia |
| Septicemia (except in labor) | A40.0 | Sepsis due to streptococcus, group A | WA03, PA16, PA45, WA14, SB97 |
| A40.8 | Other streptococcal sepsis |
| A40.9 | Streptococcal sepsis, unspecified |
| A41.9 | Sepsis, unspecified |
| Skin and subcutaneous tissue infections | L02.1 | Cutaneous abscess, furuncle and carbuncle of neck | JD05, PA17, PA45, WA14, SB97 |
| L02.2 | Cutaneous abscess, furuncle and carbuncle of trunk | JD04, PA17, PA45, WA14, SB97 |
| L02.3 | Cutaneous abscess, furuncle and carbuncle of buttock |
| L02.4 | Cutaneous abscess, furuncle and carbuncle of limb |
| L02.8 | Cutaneous abscess, furuncle and carbuncle of other sites | JD05, PA17, PA45, WA14, SB97 |
| L02.9 | Cutaneous abscess, furuncle and carbuncle, unspecified |
| L03.0 | Cellulitis of finger and toe | JD03, PA17, PA45, WA14, SB97 |
| L03.1 | Cellulitis of other parts of limb |
| L03.2 | Cellulitis of face | JD04, PA17, PA45, WA14, SB97 |
| L03.3 | Cellulitis of trunk |
| L03.8 | Cellulitis of other sites | JD03, PA35, WA14, SB97 |
| L03.9 | Cellulitis, unspecified | JD06, PA35, WA14, SB97 |
| L05.0 | Pilonidal cyst with abscess | JD06, PA18, PA45, WA14, SB97 |

† A40.1, A40.3, A41.0, A41.1, A41.2, A41.3, A41.4, B01.0, B01.2, G00.1, J10.0, J11.0, J12.0, J12.1, J12.9, J13, J14, J15.0, J15.1, J15.2, J15.5, J15.6, J15.7, M00.1.

Supplementary Table S2. *HRG4 codes associated with ICD-10 codes used to determine invasive group A streptococcal infection hospital admissions.* HRG4 codes are those associated with the ICD-10 codes compatible with invasive GAS infection in the HRG4 Code to Group workbook.

|  |  |  |  |
| --- | --- | --- | --- |
| **HRG4 subchapter** | **HRG4 code†** | **HRG4 label** | **ICD-10‡** |
| Nervous System Procedures and Disorders | AA22 | Non-Transient Stroke or Cerebrovascular Accident, Nervous system infections or Encephalopathy | 9 |
| Mouth Head Neck and Ears Procedures and Disorders | CZ21 | Minor Head, Neck and Ear Disorders 19 years and over | 1 |
| CZ22 | Intermediate Head, Neck and Ear Disorders 19 years and over | 5 |
| CZ23 | Major Head, Neck and Ear Disorders 19 years and over | 1 |
| Thoracic Procedures and Disorders | DZ10 | Lung Abscess-Empyema | 3 |
| DZ11 | Lobar, Atypical or Viral Pneumonia | 8 |
| DZ23 | Bronchopneumonia | 2 |
| Cardiac Procedures | EA10 | Percutaneous Interventions: Balloon valve intermediate interventions and arterial duct closure | 1 |
| Cardiac Disorders | EB02 | Endocarditis | 3 |
| Digestive System Procedures and Disorders | FZ33 | Small Intestinal Disorders (excluding Inflammatory Bowel Disease) with length of stay 2 days or more | 1 |
| FZ40 | Appendix Disorders with length of stay 2 days or more | 2 |
| FZ41 | Anal Disorders with length of stay 2 days or more | 1 |
| FZ45 | Non-Malignant Large Intestinal Disorders with length of stay 2 days or more | 2 |
| FZ47 | Non-Malignant General Abdominal Disorders with length of stay 2 days or more | 4 |
| Spinal Surgery and Disorders | HC31 | Spinal Infection | 1 |
| Musculoskeletal Disorders | HD21 | Soft Tissue Disorders | 1 |
| HD23 | Inflammatory Spine, Joint or Connective Tissue Disorders | 1 |
| HD25 | Infections of Bones or Joints | 7 |
| Skin Disorders | JD03 | Intermediate Skin disorders category 2 | 3 |
| JD04 | Intermediate Skin disorders category 1 | 5 |
| JD05 | Minor Skin disorders category 2 | 3 |
| JD06 | Minor Skin disorders category 1 | 2 |
| Urological and Male Reproductive System Procedures and Disorders | LB35 | Scrotum, Testis or Vas Deferens Disorders | 1 |
| Female Reproductive System Disorders | MB01 | Lower Genital Tract Disorders | 6 |
| MB03 | Uterus (including Fibroids) Disorders, Menstrual Disorders or Endometriosis | 2 |
| MB04 | Ovary, Fallopian Tube or Pelvic Disorders | 5 |
| Obstetric Medicine | NZ05 | Ante-natal or Post-natal Investigation age between 16 and 40 years with length of stay 0 days | 2 |
| NZ08 | Ante-natal or Post-natal Investigation age between 16 and 40 years with length of stay 1 day or more | 2 |
| Paediatric Medicine | PA14 | Lower Respiratory Tract Disorders without Acute Bronchiolitis with length of stay 1 day or more | 12 |
| PA16 | Major Infections | 23 |
| PA17 | Intermediate Infections | 11 |
| PA18 | Minor Infections | 2 |
| PA23 | Cardiac Conditions | 4 |
| PA25 | Major Gastrointestinal or Metabolic Disorders | 6 |
| PA26 | Other Gastrointestinal or Metabolic Disorders | 3 |
| PA34 | Musculoskeletal or Connective Tissue Disorders | 2 |
| PA35 | Skin Disorders | 2 |
| PA57 | Examination, follow-up, special screening and other admissions with length of stay 1 day or more | 6 |
| PA58 | Examination, follow-up, special screening and other admissions with length of stay 0 days | 6 |
| PA59 | Major Congenital Conditions under 1 year | 1 |
| PA63 | Head, Neck and Ear Disorders with length of stay 0 days | 6 |
| PA70 | Other Renal Diseases | 1 |
| Neonatal Disorders | PB02 | Minor Neonatal Diagnoses | 6 |
| Vascular Procedures and Disorders | QZ17 | Non-Surgical Peripheral Vascular Disease | 1 |
| Undefined Groups | UZ03 | Data invalid for grouping | 5 |
| Immunology, infectious diseases, poisoning, shock, special examinations, screening and other healthcare contacts | WA03 | Septicaemia | 5 |
| WA09 | Other non-viral infection | 1 |
| WA14 | Planned Procedures not carried out | 93 |

† Two HRG4 codes for cancer care were excluded (PA45, SB97).

‡ The number of invasive GAS ICD-10 from this study which were associated with the HRG4 code.

Supplementary Table S3. *OPCS-4 three character codes used to defined study groups and sub-groups for types of operations and procedures.* OPCS-4 three character codes were taken for the main operation recorded (if any) for each FCE for all primary admissions not defined as nosocomial infections. Subsidiary classification of sites (from OPCS-4 chapters Y and Z) were excluded from grouping.

|  |  |  |  |
| --- | --- | --- | --- |
| Study group | Study sub-group | OPCS-4 code (three character)† | OPCS-4 Description |
| Cardiovascular care | Cardiac interventions | K59 | Cardioverter defibrillator introduced through the vein |
| K60 | Cardiac pacemaker system introduced through vein |
| K61 | Other cardiac pacemaker system |
| K63 | Contrast radiology of heart |
| K65 | Catheterisation of heart |
| K68 | Drainage of pericardium |
| Echocardiography | U20 | Diagnostic echocardiography |
| Intravenous and intra-arterial cannulation and procedures | L13 | Transluminal operations on pulmonary artery |
| L16 | Extra-anatomic bypass of aorta |
| L18 | Emergency replacement of aneurysmal segment of aorta |
| L26 | Transluminal operations on aorta |
| L47 | Transluminal operations on other visceral branch of abdominal aorta |
| L56 | Emergency replacement of aneurysmal femoral artery |
| L60 | Reconstruction of femoral artery |
| L62 | Other open operations on femoral artery |
| L63 | Transluminal operations on femoral artery |
| L70 | Other open operations on other artery |
| L71 | Therapeutic transluminal operations on other artery |
| L72 | Diagnostic transluminal operations on other artery |
| L74 | Arteriovenous shunt |
| L91 | Other vein related operations |
| L92 | Unblocking of access catheter |
| L93 | Other open operations on vein |
| L94 | Therapeutic transluminal operations on vein |
| L95 | Diagnostic transluminal operations on vein |
| L97 | Other operations on blood vessel |
| L99 | Other therapeutic transluminal operations on vein |
| Diagnostics | Biopsies | B32 | Biopsy of breast |
| S13 | Punch biopsy of skin |
| S15 | Other biopsy of skin |
| T81 | Biopsy of muscle |
| T85 | Block dissection of lymph nodes |
| T86 | Sampling of lymph nodes |
| T87 | Excision or biopsy of lymph node |
| Y20 | Biopsy of organ NOC |
| Diagnostic imaging and tests | A55 | Diagnostic spinal puncture |
| U01 | Diagnostic imaging of whole body |
| U05 | Diagnostic imaging of central nervous system |
| U06 | Diagnostic imaging of face and neck |
| U07 | Diagnostic imaging of chest |
| U08 | Diagnostic imaging of abdomen |
| U09 | Diagnostic imaging of pelvis |
| U10 | Diagnostic imaging of heart |
| U11 | Diagnostic imaging of vascular system |
| U13 | Diagnostic imaging of musculoskeletal system |
| U15 | Diagnostic imaging of respiratory system |
| U16 | Diagnostic imaging of hepatobiliary system |
| U21 | Diagnostic imaging procedures |
| U29 | Diagnostic endocrinology |
| U32 | Diagnostic blood tests |
| Y21 | Cytology of organ NOC |
| Y53 | Approach to organ under image control |
| Y97 | Radiology with contrast |
| Y98 | Radiology procedures |
| Gastrointestinal care | Endoscopy or intubation of gastrointestinal tract | G16 | Diagnostic fibreoptic endoscopic examination of oesophagus |
| G19 | Diagnostic endoscopic examination of oesophagus using rigid oesophagoscope |
| G43 | Fibreoptic endoscopic extirpation of lesion of upper gastrointestinal tract |
| G44 | Other therapeutic fibreoptic endoscopic operations on upper gastrointestinal tract |
| G45 | Diagnostic fibreoptic endoscopic examination of upper gastrointestinal tract |
| G47 | Intubation of stomach |
| G64 | Therapeutic endoscopic operations on jejunum |
| H22 | Diagnostic endoscopic examination of colon |
| H23 | Endoscopic extirpation of lesion of lower bowel using fibreoptic sigmoidoscope |
| H25 | Diagnostic endoscopic examination of lower bowel using fibreoptic sigmoidoscope |
| H27 | Other therapeutic endoscopic operations on sigmoid colon using rigid sigmoidoscope |
| H28 | Diagnostic endoscopic examination of sigmoid colon using rigid sigmoidoscope |
| Gynaecology and obstetric care | Female genital tract procedures | P23 | Other repair of prolapse of vagina |
| P26 | Introduction of supporting pessary into vagina |
| Q18 | Diagnostic endoscopic examination of uterus |
| Q49 | Therapeutic endoscopic operations on ovary |
| Q55 | Other examination of female genital tract |
| Pregnancy and delivery (excluding surgical delivery) | R15 | Other induction of labour |
| R21 | Forceps cephalic delivery |
| R22 | Vacuum delivery |
| R24 | Normal delivery |
| R28 | Instrumental removal of products of conception from delivered uterus |
| R29 | Manual removal of products of conception from delivered uterus |
| R32 | Repair of obstetric laceration |
| Renal care | Catheterisation and endoscopic examination of bladder | M45 | Diagnostic endoscopic examination of bladder |
| M47 | Urethral catheterisation of bladder |
| Dialysis for renal failure | X40 | Compensation for renal failure |
| X41 | Placement of ambulatory apparatus for compensation for renal failure |
| X42 | Placement of other apparatus for compensation for renal failure |
| Respiratory care | Endoscopy of respiratory tract | E25 | Diagnostic endoscopic examination of pharynx |
| E34 | Microtherapeutic endoscopic operations on larynx |
| E35 | Other therapeutic endoscopic operations on larynx |
| E36 | Diagnostic endoscopic examination of larynx |
| E48 | Therapeutic fibreoptic endoscopic operations on lower respiratory tract |
| E49 | Diagnostic fibreoptic endoscopic examination of lower respiratory tract |
| Invasive ventilations and associated procedures | E42 | Exteriorisation of trachea |
| X56 | Intubation of trachea |
| Non-invasive ventilations and associated procedures | E85 | Ventilation support |
| E89 | Other respiratory support |
| Pleural drainage and respiratory tests | E92 | Respiratory tests |
| T12 | Puncture of pleura |
| T13 | Introduction of substance into pleural cavity |
| Surgery and associated procedures | Abdominal surgery | J13 | Diagnostic percutaneous operations on liver |
| J72 | Other operations on spleen |
| M13 | Percutaneous puncture of kidney |
| T28 | Other repair of anterior abdominal wall |
| T30 | Opening of abdomen |
| T31 | Other operations on anterior abdominal wall |
| T34 | Open drainage of peritoneum |
| T36 | Operations on omentum |
| T41 | Other open operations on peritoneum |
| T42 | Therapeutic endoscopic operations on peritoneum |
| T43 | Diagnostic endoscopic examination of peritoneum |
| T45 | Image controlled operations on abdominal cavity |
| T46 | Other drainage of peritoneal cavity |
| T51 | Excision of fascia of abdomen |
| Y50 | Approach through abdominal cavity |
| Y75 | Minimal access to abdominal cavity |
| Amputations | X08 | Amputation of arm |
| X09 | Amputation of hand |
| X10 | Amputation of leg |
| X11 | Amputation of foot |
| X12 | Amputation of toe |
| X08 | Operations on amputation stump |
| Chest surgery including heart and lung | E55 | Open extirpation of lesion of lung |
| E59 | Other operations on lung |
| K25 | Plastic repair of mitral valve |
| K26 | Plastic repair of aortic valve |
| K27 | Plastic repair of tricuspid valve |
| T05 | Other operations on chest wall |
| T07 | Open excision of pleura |
| T08 | Open drainage of pleural cavity |
| T10 | Therapeutic endoscopic operations on pleura |
| T14 | Other operations on pleura |
| Y49 | Approach through thoracic cavity |
| Y74 | Minimal access to thoracic cavity |
| Female genital tract and pregnancy-related operations | P13 | Other operations on female perineum |
| P29 | Other operations on vagina |
| Q07 | Abdominal excision of uterus |
| Q08 | Vaginal excision of uterus |
| Q09 | Other open operations on uterus |
| Q10 | Curettage of uterus |
| Q11 | Other evacuation of contents of uterus |
| Q12 | Intrauterine contraceptive device |
| Q14 | Introduction of abortifacient into uterine cavity |
| Q23 | Unilateral excision of adnexa of uterus |
| Q30 | Other repair of fallopian tube |
| Q34 | Other open operations on fallopian tube |
| R14 | Surgical induction of labour |
| R18 | Other caesarean delivery |
| R27 | Other operations to facilitate delivery |
| R34 | Other obstetric operations |
| Gastrointestinal tract surgery | G21 | Other operations on oesophagus |
| G27 | Total excision of stomach |
| G34 | Artificial opening into stomach |
| G40 | Incision of pylorus |
| G41 | Other operations on pylorus |
| G52 | Operations on ulcer of duodenum |
| G69 | Excision of ileum |
| G74 | Creation of artificial opening into ileum |
| H01 | Emergency excision of appendix |
| H02 | Other excision of appendix |
| H07 | Other excision of right hemicolon |
| H10 | Excision of sigmoid colon |
| H12 | Extirpation of lesion of colon |
| H15 | Other exteriorisation of colon |
| H16 | Incision of colon |
| H19 | Other open operations on colon |
| H30 | Other operations on colon |
| H33 | Excision of rectum |
| H44 | Manipulation of rectum |
| H51 | Excision of haemorrhoid |
| H56 | Other operations on anus |
| H58 | Drainage through perineal region |
| H62 | Other operations on bowel |
| J18 | Excision of gall bladder |
| J33 | Incision of bile duct |
| Head and neck surgery | A05 | Drainage of lesion of tissue of brain |
| A10 | Other operations on tissue of brain |
| A12 | Creation of connection from ventricle of brain |
| A14 | Other operations on connection from ventricle of brain |
| A16 | Other open operations on ventricle of brain |
| A20 | Other operations on ventricle of brain |
| A39 | Repair of dura |
| A40 | Drainage of extradural space |
| A41 | Drainage of subdural space |
| B08 | Excision of thyroid gland |
| C06 | Incision of orbit |
| C11 | Operations on canthus |
| C12 | Extirpation of lesion of eyelid |
| C14 | Reconstruction of eyelid |
| C16 | Other plastic repair of eyelid |
| C17 | Other repair of eyelid |
| C19 | Incision of eyelid |
| C22 | Other operations on eyelid |
| C46 | Plastic operations on cornea |
| D07 | Clearance of external auditory canal |
| D10 | Exenteration of mastoid air cells |
| D12 | Other operations on mastoid |
| D15 | Drainage of middle ear |
| D28 | Other operations on ear |
| E05 | Surgical arrest of bleeding from internal nose |
| E06 | Packing of cavity of nose |
| E08 | Other operations on internal nose |
| E12 | Operations on maxillary antrum using sublabial approach |
| E13 | Other operations on maxillary antrum |
| E14 | Operations on frontal sinus |
| E17 | Operations on unspecified nasal sinus |
| E20 | Operations on adenoid |
| E27 | Other operations on pharynx |
| F09 | Surgical removal of tooth |
| F10 | Simple extraction of tooth |
| F24 | Incision of tongue |
| F34 | Excision of tonsil |
| F36 | Other operations on tonsil |
| F42 | Other operations on mouth |
| F44 | Excision of salivary gland |
| F45 | Extirpation of lesion of salivary gland |
| V03 | Opening of cranium |
| Y46 | Open approach to contents of cranium |
| Y47 | Burrhole approach to contents of cranium |
| Skin surgery | N01 | Extirpation of scrotum |
| N03 | Other operations on scrotum |
| S04 | Other excision of skin |
| S06 | Other excision of lesion of skin |
| S08 | Curettage of lesion of skin |
| S12 | Phototherapy to skin |
| S17 | Distant flap of skin and muscle |
| S35 | Split autograft of skin |
| S36 | Other autograft of skin |
| S37 | Other graft of skin |
| S40 | Other closure of skin |
| S41 | Suture of skin of head or neck |
| S42 | Suture of skin of other site |
| S43 | Removal of repair material from skin |
| S47 | Opening of skin |
| S55 | Exploration of burnt skin of other site |
| S56 | Exploration of other skin of head or neck |
| S57 | Exploration of other skin of other site |
| S58 | Larvae therapy of skin |
| S60 | Other operations on skin |
| S62 | Other operations on subcutaneous tissue |
| 11 | Harvest of random pattern flap of skin from limb |
| 2 | Harvest of random pattern flap of skin from other site |
| 9 | Harvest of skin for graft |
| Soft tissue and musculoskeletal surgery | B27 | Total excision of breast |
| B30 | Prosthesis for breast |
| B31 | Other plastic operations on breast |
| B33 | Incision of breast |
| O13 | Other leg region |
| T52 | Excision of other fascia |
| T53 | Extirpation of lesion of fascia |
| T54 | Division of fascia |
| T55 | Release of fascia |
| T56 | Other excision of other fascia |
| T57 | Other operations on fascia |
| T62 | Operations on bursa |
| T65 | Excision of tendon |
| T72 | Other operations on sheath of tendon |
| T76 | Transplantation of muscle |
| T77 | Excision of muscle |
| T83 | Other operations on muscle |
| T88 | Drainage of lesion of lymph node |
| T91 | Operations on sentinel lymph node |
| T96 | Other operations on soft tissue |
| V55 | Other operations on spine |
| V67 | Other primary decompression operations on lumbar spine |
| W06 | Total excision of bone |
| W08 | Other excision of bone |
| W09 | Extirpation of lesion of bone |
| W18 | Drainage of bone |
| W19 | Primary open reduction of fracture of bone and intramedullary fixation |
| W20 | Primary open reduction of fracture of bone and extramedullary fixation |
| W24 | Closed reduction of fracture of bone and internal fixation |
| W25 | Closed reduction of fracture of bone and external fixation |
| W26 | Other closed reduction of fracture of bone |
| W28 | Other internal fixation of bone |
| W30 | Other external fixation of bone |
| W33 | Other open operations on bone |
| W35 | Therapeutic puncture of bone |
| W36 | Diagnostic puncture of bone |
| W39 | Other total prosthetic replacement of hip joint |
| W40 | Total prosthetic replacement of knee joint using cement |
| W42 | Other total prosthetic replacement of knee joint |
| W69 | Open operations on synovial membrane of joint |
| W80 | Debridement and irrigation of joint |
| W81 | Other open operations on joint |
| W82 | Therapeutic endoscopic operations on semilunar cartilage |
| W83 | Therapeutic endoscopic operations on other articular cartilage |
| W84 | Therapeutic endoscopic operations on other joint structure |
| W85 | Therapeutic endoscopic operations on cavity of knee joint |
| W86 | Therapeutic endoscopic operations on cavity of other joint |
| W87 | Diagnostic endoscopic examination of knee joint |
| W88 | Diagnostic endoscopic examination of other joint |
| W90 | Puncture of joint |
| W92 | Other operations on joint |
| Y64 | Harvest of flap of muscle of other site |
| Unclassified operative procedures | Y02 | Placement of prosthesis in organ (not otherwise classified) |
| Y03 | Attention to prosthesis in organ (not otherwise classified) |
| Y05 | Excision of organ (not otherwise classified) |
| Y07 | Obliteration of cavity of organ (not otherwise classified) |
| Y08 | Laser therapy to organ (not otherwise classified) |
| Y11 | Other destruction of organ (not otherwise classified) |
| Y13 | Other destruction of lesion of organ (not otherwise classified) |
| Y18 | Release of organ (not otherwise classified) |
| Y22 | Drainage of organ (not otherwise classified) |
| Y25 | Suture of organ (not otherwise classified) |
| Y26 | Other repair of organ (not otherwise classified) |
| Y31 | Exploration of organ (not otherwise classified) |
| Y32 | Re-exploration of organ (not otherwise classified) |
| Y38 | Injection of therapeutic substance into organ (not otherwise classified) |
| Y41 | Examination of organ (not otherwise classified) |
| Y44 | Other methods of operation on organ (not otherwise classified) |
| Y52 | Approach to organ through other opening |
| Y70 | Early operations (not otherwise classified) |
| Y71 | Late operations (not otherwise classified) |
| Y76 | Minimal access to other body cavity |
| Treatment and rehabilitation | High cost drugs | X82 | High cost hypertension drugs |
| X83 | High cost other cardiovascular drugs |
| X86 | High cost anti-infective drugs |
| X90 | High cost haematology and nutrition drugs |
| X96 | High cost immunology drugs |
| Injections, infusions and transfusions | X28 | Intermittent infusion of therapeutic substance |
| X29 | Continuous Infusion of therapeutic substance |
| X33 | Other blood transfusion |
| X34 | Other intravenous transfusion |
| X35 | Other intravenous injection |
| X37 | Intramuscular injection |
| X38 | Subcutaneous injection |
| Other treatments (including anaesthetic drugs) | A65 | Release of entrapment of peripheral nerve at wrist |
| X48 | Immobilisation using plaster cast |
| X51 | Change of body temperature |
| X52 | Oxygen therapy |
| X59 | Anaesthetic without surgery |
| X70 | Procurement of drugs for chemotherapy for neoplasm in Bands 1-5 |
| X71 | Procurement of drugs for chemotherapy for neoplasm in Bands 6-10 |
| X72 | Delivery of chemotherapy for neoplasm |
| Y80 | General anaesthetic |
| Y81 | Spinal anaesthetic |
| Y82 | Local anaesthetic |
| Y84 | Other anaesthetic |
| Rehabilitation | U50 | Rehabilitation for musculoskeletal disorders |
| U51 | Rehabilitation for neurological disorders |
| U54 | Rehabilitation for other disorders |
| Resuscitation | X50 | External resuscitation |

†Excluding: V55, Y95, Z06, Z08-09, Z15-Z16, Z20, Z22-Z24, Z27-Z31, Z33-Z50, Z52, Z55-Z58, Z60-Z64, Z66, Z68-Z78, Z80-Z92, Z94-Z96, Z98