

UK Colorectal Cancer INTELLIGENCE HUB



CORECT-R DATA CODING V1.0

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Derived Variables:

The following section provides information about derived variables contained within the National Colorectal Cancer Dataset and the National Anal Cancer Dataset. Variables are grouped according to themes;

1. [Patient information](#)
2. [Tumour information](#)
3. [Comorbidity information](#)
4. [Primary procedure](#)
5. [Major resection](#)
6. [Oncology](#)
7. [Patient Reported Outcomes \(PROMs\)](#) (available in isolation only)
8. [Anal cancer](#) (containing information about variables which are present in the National Anal Cancer Dataset only)

National Colorectal Cancer Dataset

TUMOUR INFORMATION

Location of the tumour within the colorectum – SITE_CODED

ICD10 code	ICD10 Description	CORECT-R code	CORECT-R description
C180	Caecum	1	Right colon
C181	Appendix		
C182	Ascending colon		
C183	Hepatic flexure		
C184	Transverse colon		
C185	Splenic flexure	2	Left colon
C186	Descending colon		
C187	Sigmoid colon		
C188	Overlapping lesion of colon	3	Colon, unspecified
C189	Colon, unspecified		
C19	Rectosigmoid junction	4	Rectosigmoid
C20	Rectum	5	Rectum

Morphology group – USE_MORPH

ICD02 code	ICD02 Description	CORECT-R code	CORECT-R description
81403	Adenocarcinoma, NOS	1	Adenocarcinoma
81405	Microinvasive adenocarcinoma, NOS		
81406	Adenocarcinoma metastatic		
81409	Adenocarcinoma, NOS unknown if primary or metastatic		
82103	Adenocarcinoma in adenomatous polyp		
82113	Tubular adenocarcinoma		
82133	Serrated adenocarcinoma		
82203	Adenocarcinoma in adenomatous polyposis coli		

82213	Adenocarcinoma in multiple adenomatous polyps		
82553	Adenocarcinoma with mixed subtypes		
82603	Papillary adenocarcinoma, NOS		
82613	Adenocarcinoma in villous adenoma		
82623	Villous adenocarcinoma		
82633	Adenocarcinoma in tubulovillous adenoma		
82635	Microinvasive adenocarcinoma in tubulovillous adenoma		
84803	Mucinous adenocarcinoma		
84809	OU mucinous adenocarcinoma		
84813	Mucin-producing adenocarcinoma		
84903	Signet ring cell carcinoma		
85103	Medullary carcinoma, NOS		
80703	Squamous cell carcinoma, NOS	2	Squamous
80705	Microinvasive squamous cell carcinoma, NOS		
80713	Squamous cell carcinoma, keratinizing, NOS		
80723	Squamous cell carcinoma, large cell, non-keratinising, NOS		
80733	Squamous cell carcinoma, small cell, nonkeratinizing		
80833	Basaloid squamous cell carcinoma		
80943	Basosquamous carcinoma		
81233	Basaloid carcinoma		
81243	Cloacogenic carcinoma		
87203	Malignant melanoma, NOS	3	Melanoma
87213	Melanoma nodular		
87303	Amelanotic melanoma		
87463	Mucosal lentiginous melanoma		
87703	Mixed epithelioid and spindle cell melanoma		
80003	Neoplasm, malignant	4	Cancer/carcinoma NOS
80009	Neoplasm malignant, uncertain whether primary or metastatic		
80013	Tumour cells malignant		
80103	Carcinoma, NOS		
80109	Carcinomatosis		
80203	Carcinoma, undifferentiated, NOS		
80213	Carcinoma, anaplastic, NOS		
80223	Pleomorphic carcinoma		
82303	Solid carcinoma NOS		
85603	Adenosquamous carcinoma	5	Mixed
85703	Adenocarcinoma with squamous metaplasia		
85743	Adenocarcinoma with neuroendocrine differentiation		
80123	Large cell carcinoma, NOS	6	Neuroendocrine
80133	Large cell neuroendocrine carcinoma		
80413	Small cell carcinoma, NOS		
80419	OU small cell carcinoma		
80453	Combined small cell carcinoma		
82043	Carcinoid tumour non-argentaffin malignant		

82401	Carcinoid tumour of uncertain malignant potential		
82403	Carcinoid tumour, NOS		
82413	Enterochromaffin cell carcinoid		
82433	Goblet cell carcinoid		
82453	Adenocarcinoid tumour		
82463	Neuroendocrine carcinoma, NOS		
82493	Neuroendocrine carcinoma, moderately differentiated		
88003	Sarcoma, NOS	7	Sarcoma
88013	Spindle cell sarcoma		
88023	Giant cell sarcoma (except of bone)		
88033	Small cell sarcoma		
88043	Epithelioid sarcoma		
88053	Undifferentiated sarcoma		
88063	Desmoplastic small round cell tumour		
88113	Fibromyxosarcoma		
88143	Infantile fibrosarcoma		
88153	Solitary fibrous tumour, malignant		
88303	Malignant fibrous histiocytoma		
88503	Liposarcoma, NOS		
88513	Liposarcoma, well differentiated		
88523	Myxoid liposarcoma		
88543	Pleomorphic liposarcoma		
88583	Dedifferentiated liposarcoma		
88903	Leiomyosarcoma, NOS		
88913	Epithelioid leiomyosarcoma		
89203	Alveolar rhabdomyosarcoma		
89333	Adenosarcoma		
89363	Gastrointestinal stromal sarcoma		
91203	Haemangiosarcoma		
91403	Kaposi sarcoma		

COMORBIDITY INFORMATION

Information below pertains to the predefined comorbidity measures which are included in the National Colorectal Cancer Dataset and the National Anal Cancer Dataset. Additional measures can be derived as per user requirements and the codes included and timeframe covered can be adapted accordingly.

Charlson comorbidity score – CHARLSON

ICD10 code*	ICD10 description	Charlson score	Charlson group
G45	Transient cerebral ischemic attacks and related syndromes	1	Cerebrovascular Disease
G46	Vascular syndromes of brain in cerebrovascular diseases		
H340	Transient retinal artery occlusion		
I60	Nontraumatic subarachnoid haemorrhage		
I61	Nontraumatic intracerebral haemorrhage		
I62	Other and unspecified nontraumatic intracranial haemorrhage		
I63	Cerebral infarction		
I64	Stroke, not specified as haemorrhage or infarction		
I65	Occlusion and stenosis of precerebral arteries, not resulting in cerebral infarction		
I66	Occlusion and stenosis of cerebral arteries, not resulting in cerebral infarction		
I67	Other cerebrovascular diseases		
I68	Cerebrovascular disorders in diseases classified elsewhere		
I69	Sequelae of cerebrovascular disease		
I278	Other specified pulmonary heart diseases		
I279	Pulmonary heart disease, unspecified		
J40	Bronchitis, not specified as acute or chronic		
J41	Simple and mucopurulent chronic bronchitis		
J42	Unspecified chronic bronchitis		
J43	Emphysema		
J44	Other chronic obstructive pulmonary disease		
J45	Asthma		
J46	Status asthmaticus		
J47	Bronchiectasis		
J60	Coalworker's pneumoconiosis		
J61	Pneumoconiosis due to asbestos and other mineral fibres		
J62	Pneumoconiosis due to dust containing silica		
J63	Pneumoconiosis due to other inorganic dusts		
J64	Unspecified pneumoconiosis		
J65	Pneumoconiosis associated with tuberculosis		
J66	Airway disease due to specific organic dust		
J67	Hypersensitivity pneumonitis due to organic dust		
J684	Chronic respiratory conditions due to chemicals, gases, fumes and vapours		
J701	Chronic and other pulmonary manifestations due to radiation		
J703	Chronic drug-induced interstitial lung disorders		

I099	Rheumatic heart disease, unspecified	1	Congestive Heart Failure
I110	Hypertensive heart disease with heart failure		
I130	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney		
I132	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or		
I255	Ischemic cardiomyopathy		
I420	Dilated cardiomyopathy		
I425	Other restrictive cardiomyopathy		
I426	Alcoholic cardiomyopathy		
I427	Cardiomyopathy due to drug and external agent		
I428	Other cardiomyopathies		
I429	Cardiomyopathy, unspecified		
I43	Cardiomyopathy in diseases classified elsewhere		
I50	Heart failure		
P290	Neonatal cardiac failure		
F00	Dementia in Alzheimer disease	1	Dementia
F01	Vascular dementia		
F02	Dementia in other diseases classified elsewhere		
F03	Unspecified dementia		
F051	Delirium superimposed on dementia		
G30	Alzheimer's disease		
G311	Senile degeneration of brain, not elsewhere classified		
E100	Insulin-dependent diabetes mellitus with coma	1	Diabetes without chronic complication
E101	Insulin-dependent diabetes mellitus with ketoacidosis		
E106	Insulin-dependent diabetes mellitus with other specified complications		
E108	Insulin-dependent diabetes mellitus with unspecified complications		
E109	Insulin-dependent diabetes mellitus without complications		
E110	Non-insulin-dependent diabetes mellitus with hyperosmolarity		
E111	Non-insulin-dependent diabetes mellitus with ketoacidosis		
E116	Non-insulin-dependent diabetes mellitus with other specified complications		
E118	Non-insulin-dependent diabetes mellitus with unspecified complications		
E119	Non-insulin-dependent diabetes mellitus without complications		
E120	Malnutrition-related diabetes mellitus with coma		
E121	Malnutrition-related diabetes mellitus with ketoacidosis		
E126	Malnutrition-related diabetes mellitus with other specified complications		
E128	Malnutrition-related diabetes mellitus with unspecified complications		
E129	Malnutrition-related diabetes mellitus without complications		
E130	Other specified diabetes mellitus with hyperosmolarity		
E131	Other specified diabetes mellitus with ketoacidosis		
E136	Other specified diabetes mellitus with other specified complications		
E138	Other specified diabetes mellitus with unspecified complications		

E139	Other specified diabetes mellitus without complications			
E140	Unspecified diabetes mellitus with hyperosmolarity			
E141	Unspecified diabetes mellitus with ketoacidosis			
E146	Unspecified diabetes mellitus with other specified complications			
E148	Unspecified diabetes mellitus with unspecified complications			
E149	Unspecified diabetes mellitus without complications			
I21	ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction	1	Myocardial Infarction	
I22	Subsequent ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction			
I252	Old myocardial infarction			
K25	Gastric ulcer	1	Peptic Ulcer Disease	
K26	Duodenal ulcer			
K27	Peptic ulcer, site unspecified			
K28	Gastrojejunal ulcer			
I70	Atherosclerosis	1	Peripheral Vascular Disease	
I71	Aortic aneurysm and dissection			
I731	Thromboangiitis obliterans [Buerger's disease]			
I738	Other specified peripheral vascular diseases			
I739	Peripheral vascular disease, unspecified			
I771	Stricture of artery			
I790	Aneurysm of aorta in diseases classified elsewhere			
I792	Peripheral angiopathy in diseases classified elsewhere			
K551	Chronic vascular disorders of intestine			
K558	Other vascular disorders of intestine			
K559	Vascular disorder of intestine, unspecified			
Z958	Presence of other cardiac and vascular implants and grafts			
M05	Rheumatoid arthritis with rheumatoid factor	1		Rheumatic Disease
M06	Other rheumatoid arthritis			
M315	Giant cell arteritis with polymyalgia rheumatica			
M32	Systemic lupus erythematosus (SLE)			
M33	Dermatopolymyositis			
M34	Systemic sclerosis [scleroderma]			
M351	Other overlap syndromes			
M353	Polymyalgia rheumatica			
M360	Dermato(poly)myositis in neoplastic disease			
B18	Chronic viral hepatitis	1	Mild Liver Disease	
K70	Alcoholic liver disease			
K73	Chronic hepatitis, not elsewhere classified			
K74	Fibrosis and cirrhosis of liver			
K760	Fatty (change of) liver, not elsewhere classified			
K762	Central haemorrhagic necrosis of liver			
K763	Infarction of liver			
K764	Peliosis hepatis			
K768	Other specified diseases of liver			
K769	Liver disease, unspecified			

Z944	Liver transplant status		
C00	Malignant neoplasm of lip	2	Cancer
C01	Malignant neoplasm of base of tongue		
C02	Malignant neoplasm of other and unspecified parts of tongue		
C03	Malignant neoplasm of gum		
C04	Malignant neoplasm of floor of mouth		
C05	Malignant neoplasm of palate		
C06	Malignant neoplasm of other and unspecified parts of mouth		
C07	Malignant neoplasm of parotid gland		
C08	Malignant neoplasm of other and unspecified major salivary glands		
C09	Malignant neoplasm of tonsil		
C10	Malignant neoplasm of oropharynx		
C11	Malignant neoplasm of nasopharynx		
C12	Malignant neoplasm of pyriform sinus		
C13	Malignant neoplasm of hypopharynx		
C14	Malignant neoplasm of other and ill-defined sites in the lip, oral cavity and pharynx		
C15	Malignant neoplasm of oesophagus		
C16	Malignant neoplasm of stomach		
C17	Malignant neoplasm of small intestine		
C18	Malignant neoplasm of colon		
C19	Malignant neoplasm of rectosigmoid junction		
C20	Malignant neoplasm of rectum		
C21	Malignant neoplasm of anus and anal canal		
C22	Malignant neoplasm of liver and intrahepatic bile ducts		
C23	Malignant neoplasm of gallbladder		
C24	Malignant neoplasm of other and unspecified parts of biliary tract		
C25	Malignant neoplasm of pancreas		
C26	Malignant neoplasm of other and ill-defined digestive organs		
C30	Malignant neoplasm of nasal cavity and middle ear		
C31	Malignant neoplasm of accessory sinuses		
C32	Malignant neoplasm of larynx		
C33	Malignant neoplasm of trachea		
C34	Malignant neoplasm of bronchus and lung		
C37	Malignant neoplasm of thymus		
C38	Malignant neoplasm of heart, mediastinum and pleura		
C39	Malignant neoplasm of other and ill-defined sites in the respiratory system and intrathoracic organs		
C40	Malignant neoplasm of bone and articular cartilage of limbs		
C41	Malignant neoplasm of bone and articular cartilage of other and unspecified sites		
C43	Malignant melanoma of skin		
C45	Mesothelioma		
C46	Kaposi's sarcoma		
C47	Malignant neoplasm of peripheral nerves and autonomic nervous system		

C48	Malignant neoplasm of retroperitoneum and peritoneum		
C49	Malignant neoplasm of other connective and soft tissue		
C50	Malignant neoplasm of breast		
C51	Malignant neoplasm of vulva		
C52	Malignant neoplasm of vagina		
C53	Malignant neoplasm of cervix uteri		
C54	Malignant neoplasm of corpus uteri		
C55	Malignant neoplasm of uterus, part unspecified		
C56	Malignant neoplasm of ovary		
C57	Malignant neoplasm of other and unspecified female genital organs		
C58	Malignant neoplasm of placenta		
C60	Malignant neoplasm of penis		
C61	Malignant neoplasm of prostate		
C62	Malignant neoplasm of testis		
C63	Malignant neoplasm of other and unspecified male genital organs		
C64	Malignant neoplasm of kidney, except renal pelvis		
C65	Malignant neoplasm of renal pelvis		
C66	Malignant neoplasm of ureter		
C67	Malignant neoplasm of bladder		
C68	Malignant neoplasm of other and unspecified urinary organs		
C69	Malignant neoplasm of eye and adnexa		
C70	Malignant neoplasm of meninges		
C71	Malignant neoplasm of brain		
C72	Malignant neoplasm of spinal cord, cranial nerves and other parts of central nervous system		
C73	Malignant neoplasm of thyroid gland		
C74	Malignant neoplasm of adrenal gland		
C75	Malignant neoplasm of other endocrine glands and related structures		
C76	Malignant neoplasm of other and ill-defined sites		
C81	Hodgkin lymphoma		
C82	Follicular lymphoma		
C83	Non-follicular lymphoma		
C84	Mature T/NK-cell lymphomas		
C85	Other specified and unspecified types of non-Hodgkin lymphoma		
C88	Malignant immunoproliferative diseases and certain other B-cell lymphomas		
C90	Multiple myeloma and malignant plasma cell neoplasms		
C91	Lymphoid leukaemia		
C92	Myeloid leukaemia		
C93	Monocytic leukaemia		
C94	Other leukaemia's of specified cell type		
C95	Leukaemia of unspecified cell type		
C96	Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue		
C97	Malignant neoplasms of independent (primary) multiple sites		

E102	Insulin-dependent diabetes mellitus with kidney complications	2	Diabetes with chronic complication
E103	Insulin-dependent diabetes mellitus with ophthalmic complications		
E104	Insulin-dependent diabetes mellitus with neurological complications		
E105	Insulin-dependent diabetes mellitus with circulatory complications		
E107	Insulin-dependent diabetes mellitus with multiple complications		
E112	Non-insulin-dependent diabetes mellitus with kidney complications		
E113	Non-insulin-dependent diabetes mellitus with ophthalmic complications		
E114	Non-insulin-dependent diabetes mellitus with neurological complications		
E115	Non-insulin-dependent diabetes mellitus with circulatory complications		
E117	Non-insulin-dependent diabetes mellitus with multiple complications		
E122	Malnutrition-related diabetes mellitus with renal complications		
E123	Malnutrition-related diabetes mellitus with ophthalmic complications		
E124	Malnutrition-related diabetes mellitus with neurological complications		
E125	Malnutrition-related diabetes mellitus with peripheral circulatory complications		
E127	Malnutrition-related diabetes mellitus with multiple complications		
E132	Other specified diabetes mellitus with kidney complications		
E133	Other specified diabetes mellitus with ophthalmic complications		
E134	Other specified diabetes mellitus with neurological complications		
E135	Other specified diabetes mellitus with circulatory complications		
E137	Other specified diabetes mellitus with multiple complications		
E142	Unspecified diabetes mellitus with kidney complications		
E143	Unspecified diabetes mellitus with ophthalmic complications		
E144	Unspecified diabetes mellitus with neurological complications		
E145	Unspecified diabetes mellitus with circulatory complications		
E147	Unspecified diabetes mellitus with multiple complications		
G041	Tropical spastic paraplegia	2	Hemiplegia or paraplegia
G114	Hereditary spastic paraplegia		
G114	Hereditary spastic paraplegia		
G801	Spastic diplegic cerebral palsy		
G802	Spastic hemiplegic cerebral palsy		
G81	Hemiplegia and hemiparesis		
G82	Paraplegia (paraparesis) and quadriplegia (quadriparesis)		
G830	Diplegia of upper limbs		
G831	Monoplegia of lower limb		
G832	Monoplegia of upper limb		
G833	Monoplegia, unspecified		
G834	Cauda equina syndrome		
G839	Paralytic syndrome, unspecified		
I120	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	2	Renal Disease

I120	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease		
I131	Hypertensive heart and chronic kidney disease without heart failure		
I132	Hypertensive heart and chronic kidney disease without heart failure		
N032	Chronic nephritic syndrome with diffuse membranous glomerulonephritis		
N033	Chronic nephritic syndrome with diffuse mesangial proliferative glomerulonephritis		
N034	Chronic nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis		
N035	Chronic nephritic syndrome with diffuse mesangiocapillary glomerulonephritis		
N036	Chronic nephritic syndrome with dense deposit disease		
N037	Chronic nephritic syndrome with diffuse crescentic glomerulonephritis		
N052	Unspecified nephritic syndrome with diffuse membranous glomerulonephritis		
N053	Unspecified nephritic syndrome with diffuse mesangial proliferative glomerulonephritis		
N054	Unspecified nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis		
N055	Unspecified nephritic syndrome with diffuse mesangiocapillary glomerulonephritis		
N056	Unspecified nephritic syndrome with dense deposit disease		
N057	Unspecified nephritic syndrome with diffuse crescentic glomerulonephritis		
N18	Chronic kidney disease (CKD)		
N19	Unspecified kidney failure		
N250	Renal osteodystrophy		
Z490	Preparatory care for renal dialysis		
Z491	Extracorporeal dialysis		
Z492	Other dialysis		
Z940	Kidney transplant status		
Z992	Dependence on renal dialysis		
I850	Oesophageal varices with bleeding	3	Severe Liver Disease
I859	Oesophageal varices without bleeding		
I864	Gastric varices		
I982	Oesophageal varices without bleeding in diseases classified elsewhere		
K704	Alcoholic hepatic failure		
K711	Toxic liver disease with hepatic necrosis		
K721	Chronic hepatic failure		
K729	Hepatic failure, unspecified		
K765	Hepatic veno-occlusive disease		
K766	Portal hypertension		
K767	Hepatorenal syndrome		
C77	Secondary and unspecified malignant neoplasm of lymph nodes	6	Metastatic Cancer
C78	Secondary malignant neoplasm of respiratory and digestive organs		
C79	Secondary malignant neoplasm of other and unspecified sites		

C80	Malignant neoplasm without specification of site		
B20	Human immunodeficiency virus [HIV] disease	6	HIV
B21	Human immunodeficiency virus [HIV] disease resulting in malignant neoplasms		
B22	Human immunodeficiency virus [HIV] disease resulting in other specified diseases		
B24	Unspecified human immunodeficiency virus [HIV] disease		

Elixhauser comorbidity score – ELIX

ICD10 code*	ICD10 description	Elixhauser score	Elixhauser group
F11	Opioid related disorders	-7	Drug Abuse
F12	Cannabis related disorders		
F13	Sedative, hypnotic, or anxiolytic related disorders		
F14	Cocaine related disorders		
F15	Other stimulant related disorders		
F16	Hallucinogen related disorders		
F18	Inhalant related disorders		
F19	Other psychoactive substance related disorders		
Z715	Drug abuse counselling and surveillance		
Z722	Drug use		
E66	Overweight and obesity	-4	Obesity
F204	Post-schizophrenic depression	-3	Depression
F313	Bipolar disorder, current episode depressed, mild or moderate severity		
F314	Bipolar disorder, current episode depressed, severe, without psychotic features		
F315	Bipolar disorder, current episode depressed, severe, with psychotic features		
F32	Major depressive disorder, single episode		
F33	Major depressive disorder, recurrent		
F341	Dysthymic disorder		
F412	Mixed anxiety and depressive disorder		
F432	Adjustment disorders		
D500	Iron deficiency anaemia secondary to blood loss (chronic)	-2	Blood Loss Anaemia
D508	Other iron deficiency anaemias	-2	Deficiency Anaemia
D509	Iron deficiency anaemia, unspecified		
D51	Vitamin B12 deficiency anaemia		
D52	Folate deficiency anaemia		
D53	Other nutritional anaemias		
A520	Cardiovascular and cerebrovascular syphilis	-1	Valvular Disease
I05	Rheumatic mitral valve diseases		
I06	Rheumatic aortic valve diseases		
I07	Rheumatic tricuspid valve diseases		
I08	Multiple valve diseases		

I091	Rheumatic diseases of endocardium, valve unspecified		
I098	Other specified rheumatic heart diseases		
I34	Nonrheumatic mitral valve disorders		
I35	Nonrheumatic aortic valve disorders		
I36	Nonrheumatic tricuspid valve disorders		
I37	Nonrheumatic pulmonary valve disorders		
I38	Endocarditis, valve unspecified		
I39	Endocarditis and heart valve disorders in diseases classified elsewhere		
Q230	Congenital stenosis of aortic valve		
Q231	Congenital insufficiency of aortic valve		
Q232	Congenital mitral stenosis		
Q233	Congenital mitral insufficiency		
Z952	Presence of prosthetic heart valve		
Z954	Presence of other heart-valve replacement		
B20	Human immunodeficiency virus [HIV] disease	0	AIDS/HIV
B21	Human immunodeficiency virus [HIV] disease resulting in malignant neoplasms		
B22	Human immunodeficiency virus [HIV] disease resulting in other specified diseases		
B24	Unspecified human immunodeficiency virus [HIV] disease		
E52	Niacin deficiency [pellagra]	0	Alcohol abuse
F10	Mental and behavioural disorders due to use of alcohol		
G621	Alcoholic polyneuropathy		
I426	Alcoholic cardiomyopathy		
K292	Alcoholic gastritis		
K701	Alcoholic fatty liver		
K704	Alcoholic cirrhosis of liver		
K710	Alcoholic liver disease, unspecified		
T51	Toxic effect of alcohol		
Z502	Alcohol rehabilitation		
Z714	Alcohol abuse counselling and surveillance		
Z721	Alcohol use		
E102	Insulin-dependent diabetes mellitus with kidney complications	0	Diabetes complicated
E103	Insulin-dependent diabetes mellitus with ophthalmic complications		
E104	Insulin-dependent diabetes mellitus with neurological complications		
E105	Insulin-dependent diabetes mellitus with circulatory complications		
E106	Insulin-dependent diabetes mellitus with other specified complications		
E107	Insulin-dependent diabetes mellitus with multiple complications		
E108	Insulin-dependent diabetes mellitus with unspecified complications		
E112	Non-insulin-dependent diabetes mellitus with kidney complications		

E113	Non-insulin-dependent diabetes mellitus with ophthalmic complications		
E114	Non-insulin-dependent diabetes mellitus with neurological complications		
E115	Non-insulin-dependent diabetes mellitus with circulatory complications		
E116	Non-insulin-dependent diabetes mellitus with other specified complications		
E117	Non-insulin-dependent diabetes mellitus with multiple complications		
E118	Non-insulin-dependent diabetes mellitus with unspecified complications		
E122	Malnutrition-related diabetes mellitus with renal complications		
E123	Malnutrition-related diabetes mellitus with ophthalmic complications		
E124	Malnutrition-related diabetes mellitus with neurological complications		
E125	Malnutrition-related diabetes mellitus with peripheral circulatory complications		
E126	Malnutrition-related diabetes mellitus with other specified complications		
E127	Malnutrition-related diabetes mellitus with multiple complications		
E128	Malnutrition-related diabetes mellitus with unspecified complications		
E132	Other specified diabetes mellitus with kidney complications		
E133	Other specified diabetes mellitus with ophthalmic complications		
E134	Other specified diabetes mellitus with neurological complications		
E135	Other specified diabetes mellitus with circulatory complications		
E136	Other specified diabetes mellitus with other specified complications		
E137	Other specified diabetes mellitus with multiple complications		
E138	Other specified diabetes mellitus with unspecified complications		
E142	Unspecified diabetes mellitus with kidney complications		
E143	Unspecified diabetes mellitus with ophthalmic complications		
E144	Unspecified diabetes mellitus with neurological complications		
E145	Unspecified diabetes mellitus with circulatory complications		
E146	Unspecified diabetes mellitus with other specified complications		
E147	Unspecified diabetes mellitus with multiple complications		
E148	Unspecified diabetes mellitus with unspecified complications		
E100	Insulin-dependent diabetes mellitus with coma	0	Diabetes uncomplicated
E101	Insulin-dependent diabetes mellitus with ketoacidosis		
E109	Insulin-dependent diabetes mellitus without complications		
E110	Non-insulin-dependent diabetes mellitus with hyperosmolarity		
E111	Non-insulin-dependent diabetes mellitus with ketoacidosis		

E119	Non-insulin-dependent diabetes mellitus without complications		
E120	Malnutrition-related diabetes mellitus with coma		
E121	Malnutrition-related diabetes mellitus with ketoacidosis		
E129	Malnutrition-related diabetes mellitus without complications		
E130	Other specified diabetes mellitus with hyperosmolarity		
E131	Other specified diabetes mellitus with ketoacidosis		
E139	Other specified diabetes mellitus without complications		
E140	Unspecified diabetes mellitus with hyperosmolarity		
E141	Unspecified diabetes mellitus with ketoacidosis		
E149	Unspecified diabetes mellitus without complications		
I11	Hypertensive heart disease	0	Hypertension complicated
I12	Hypertensive chronic kidney disease		
I13	Hypertensive heart and chronic kidney disease		
I15	Secondary hypertension		
I10	Essential (primary) hypertension	0	Hypertension uncomplicated
E00	Congenital iodine-deficiency syndrome	0	Hypothyroidism
E01	Iodine-deficiency related thyroid disorders and allied conditions		
E02	Subclinical iodine-deficiency hypothyroidism		
E03	Other hypothyroidism		
E890	Postprocedural hypothyroidism		
K257	Chronic gastric ulcer without haemorrhage or perforation	0	Peptic Ulcer Disease
K259	Gastric ulcer, unspecified as acute or chronic, without haemorrhage or perforation		
K267	Chronic duodenal ulcer without haemorrhage or perforation		
K269	Duodenal ulcer, unspecified as acute or chronic, without haemorrhage or perforation		
K277	Chronic peptic ulcer, site unspecified, without haemorrhage or perforation		
K279	Peptic ulcer, site unspecified, unspecified as acute or chronic, without haemorrhage or perforation		
K287	Chronic gastrojejunal ulcer without haemorrhage or perforation		
K289	Gastrojejunal ulcer, unspecified as acute or chronic, without haemorrhage or perforation		
F20	Schizophrenia	0	Psychoses
F22	Delusional disorders		
F23	Brief psychotic disorder		
F24	Induced delusional disorder		
F25	Schizoaffective disorders		
F28	Other psychotic disorder not due to a substance or known physiological condition		
F29	Unspecified psychosis not due to a substance or known physiological condition		
F302	Manic episode, severe with psychotic symptoms		
F312	Bipolar disorder, current episode manic severe with psychotic features		
F315	Bipolar disorder, current episode depressed, severe, with psychotic features		

L940	Localized scleroderma [morphea]	0	Rhematoid arthritis
L941	Linear scleroderma		
L943	Sclerodactyly		
M05	Rheumatoid arthritis with rheumatoid factor		
M06	Other rheumatoid arthritis		
M08	Juvenile arthritis		
M120	Chronic postrheumatic arthropathy [Jaccoud]		
M123	Palindromic rheumatism		
M30	Polyarteritis nodosa and related conditions		
M310	Hypersensitivity angiitis		
M311	Thrombotic microangiopathy		
M312	Lethal midline granuloma		
M313	Wegener's granulomatosis		
M32	Systemic lupus erythematosus (SLE)		
M33	Dermatopolymyositis		
M34	Systemic sclerosis [scleroderma]		
M35	Other systemic involvement of connective tissue		
M45	Ankylosing spondylitis		
M461	Sacroiliitis, not elsewhere classified		
M468	Other specified inflammatory spondylopathies		
M469	Unspecified inflammatory spondylopathy		
I70	Atherosclerosis	2	Peripheral vascular disorders
I71	Aortic aneurysm and dissection		
I731	Thromboangiitis obliterans [Buerger's disease]		
I738	Other specified peripheral vascular diseases		
I739	Peripheral vascular disease, unspecified		
I771	Stricture of artery		
I790	Aneurysm of aorta in diseases classified elsewhere		
I792	Peripheral angiopathy in diseases classified elsewhere		
K551	Chronic vascular disorders of intestine		
K558	Other vascular disorders of intestine		
K559	Vascular disorder of intestine, unspecified		
Z958	Presence of other cardiac and vascular implants and grafts		
Z959	Presence of cardiac and vascular implant and graft, unspecified		
I278	Other specified pulmonary heart diseases		
I279	Pulmonary heart disease unspecified		
J40	Bronchitis, not specified as acute or chronic		
J41	Simple and mucopurulent chronic bronchitis		
J42	Unspecified chronic bronchitis		
J43	Emphysema		
J44	Other chronic obstructive pulmonary disease		
J45	Asthma		
J46	Status asthmaticus		
J47	Bronchiectasis		

J60	Coalworker's pneumoconiosis		
J61	Pneumoconiosis due to asbestos and other mineral fibres		
J62	Pneumoconiosis due to dust containing silica		
J63	Pneumoconiosis due to other inorganic dusts		
J64	Unspecified pneumoconiosis		
J65	Pneumoconiosis associated with tuberculosis		
J66	Airway disease due to specific organic dust		
J67	Hypersensitivity pneumonitis due to organic dust		
J684	Chronic respiratory conditions due to chemicals, gases, fumes and vapours		
J701	Chronic and other pulmonary manifestations due to radiation		
J703	Chronic drug-induced interstitial lung disorders		
D65	Disseminated intravascular coagulation [defibrination syndrome]	3	Coagulopathy
D66	Hereditary factor VIII deficiency		
D67	Hereditary factor IX deficiency		
D68	Other coagulation defects		
D691	Qualitative platelet defects		
D693	Immune thrombocytopenic purpura		
D694	Other primary thrombocytopenia		
D695	Secondary thrombocytopenia		
D696	Thrombocytopenia, unspecified		
I26	Pulmonary embolism	4	Pulmonary circulation diseases
I27	Other pulmonary heart diseases		
I280	Arteriovenous fistula of pulmonary vessels		
I288	Other diseases of pulmonary vessels		
I289	Disease of pulmonary vessels, unspecified		
C00	Malignant neoplasm of lip	4	Solid Tumour No Mets
C01	Malignant neoplasm of base of tongue		
C02	Malignant neoplasm of other and unspecified parts of tongue		
C03	Malignant neoplasm of gum		
C04	Malignant neoplasm of floor of mouth		
C05	Malignant neoplasm of palate		
C06	Malignant neoplasm of other and unspecified parts of mouth		
C07	Malignant neoplasm of parotid gland		
C08	Malignant neoplasm of other and unspecified major salivary glands		
C09	Malignant neoplasm of tonsil		
C10	Malignant neoplasm of oropharynx		
C11	Malignant neoplasm of nasopharynx		
C12	Malignant neoplasm of pyriform sinus		
C13	Malignant neoplasm of hypopharynx		
C14	Malignant neoplasm of other and ill-defined sites in the lip, oral cavity and pharynx		
C15	Malignant neoplasm of oesophagus		

C16	Malignant neoplasm of stomach		
C17	Malignant neoplasm of small intestine		
C18	Malignant neoplasm of colon		
C19	Malignant neoplasm of rectosigmoid junction		
C20	Malignant neoplasm of rectum		
C21	Malignant neoplasm of anus and anal canal		
C22	Malignant neoplasm of liver and intrahepatic bile ducts		
C23	Malignant neoplasm of gallbladder		
C24	Malignant neoplasm of other and unspecified parts of biliary tract		
C25	Malignant neoplasm of pancreas		
C26	Malignant neoplasm of other and ill-defined digestive organs		
C30	Malignant neoplasm of nasal cavity and middle ear		
C31	Malignant neoplasm of accessory sinuses		
C32	Malignant neoplasm of larynx		
C33	Malignant neoplasm of trachea		
C34	Malignant neoplasm of bronchus and lung		
C37	Malignant neoplasm of thymus		
C38	Malignant neoplasm of heart, mediastinum and pleura		
C39	Malignant neoplasm of other and ill-defined sites in the respiratory system and intrathoracic organs		
C40	Malignant neoplasm of bone and articular cartilage of limbs		
C41	Malignant neoplasm of bone and articular cartilage of other and unspecified sites		
C43	Malignant melanoma of skin		
C45	Mesothelioma		
C46	Kaposi's sarcoma		
C47	Malignant neoplasm of peripheral nerves and autonomic nervous system		
C48	Malignant neoplasm of retroperitoneum and peritoneum		
C49	Malignant neoplasm of other connective and soft tissue		
C50	Malignant neoplasm of breast		
C51	Malignant neoplasm of vulva		
C52	Malignant neoplasm of vagina		
C53	Malignant neoplasm of cervix uteri		
C54	Malignant neoplasm of corpus uteri		
C55	Malignant neoplasm of uterus, part unspecified		
C56	Malignant neoplasm of ovary		
C57	Malignant neoplasm of other and unspecified female genital organs		
C58	Malignant neoplasm of placenta		
C60	Malignant neoplasm of penis		
C61	Malignant neoplasm of prostate		
C62	Malignant neoplasm of testis		
C63	Malignant neoplasm of other and unspecified male genital organs		
C64	Malignant neoplasm of kidney, except renal pelvis		

C65	Malignant neoplasm of renal pelvis			
C66	Malignant neoplasm of ureter			
C67	Malignant neoplasm of bladder			
C68	Malignant neoplasm of other and unspecified urinary organs			
C69	Malignant neoplasm of eye and adnexa			
C70	Malignant neoplasm of meninges			
C71	Malignant neoplasm of brain			
C72	Malignant neoplasm of spinal cord, cranial nerves and other parts of central nervous system			
C73	Malignant neoplasm of thyroid gland			
C74	Malignant neoplasm of adrenal gland			
C75	Malignant neoplasm of other endocrine glands and related structures			
C76	Malignant neoplasm of other and ill-defined sites			
C97	Malignant neoplasms of independent (primary) multiple sites			
I441	Atrioventricular block, second degree	5	Cardiac Arrhythmias	
I442	Atrioventricular block, complete			
I443	Other and unspecified atrioventricular block			
I456	Pre-excitation syndrome			
I459	Conduction disorder, unspecified			
I47	Paroxysmal tachycardia			
I48	Atrial fibrillation and flutter			
I49	Other cardiac arrhythmias			
R000	Tachycardia, unspecified			
R001	Bradycardia, unspecified			
R008	Other abnormalities of heart beat			
T821	Mechanical complication of cardiac electronic device			
Z450	Encounter for adjustment and management of cardiac device			
Z950	Presence of cardiac pacemaker			
E222	Syndrome of inappropriate secretion of antidiuretic hormone	5		Fluid and Electrolyte Disorders
E86	Volume depletion			
E87	Other disorders of fluid, electrolyte and acid-base balance			
I120	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	5	Renal failure	
I132	Hypertensive heart and chronic kidney disease without heart failure			
N120	Tubulo-interstitial nephritis			
N130	Hydronephrosis with ureteropelvic junction obstruction			
N18	Chronic kidney disease (CKD)			
N19	Unspecified kidney failure			
N250	Renal osteodystrophy			
Z490	Preparatory care for renal dialysis			
Z491	Extracorporeal dialysis			
Z492	Other dialysis			

Z940	Kidney transplant status		
Z992	Dependence on renal dialysis		
G10	Huntington's disease	6	Other Neurological disorders
G11	Hereditary ataxia		
G12	Spinal muscular atrophy and related syndromes		
G13	Systemic atrophies primarily affecting central nervous system in diseases classified elsewhere		
G20	Parkinson's disease		
G21	Secondary parkinsonism		
G22	Parkinsonism in diseases classified elsewhere		
G254	Drug-induced chorea		
G255	Other chorea		
G312	Degeneration of nervous system due to alcohol		
G318	Other specified degenerative diseases of nervous system		
G319	Degenerative disease of nervous system, unspecified		
G32	Other degenerative disorders of nervous system in diseases classified elsewhere		
G320	Subacute combined degeneration of spinal cord in diseases classified elsewhere		
G328	Other specified degenerative disorders of nervous system in diseases classified elsewhere		
G32X	Other degenerative disorders of nervous system in diseases classified elsewhere		
G35	Multiple sclerosis		
G36	Other acute disseminated demyelination		
G37	Other demyelinating diseases of central nervous system		
G40	Epilepsy and recurrent seizures		
G41	Status epilepticus		
G931	Anoxic brain damage, not elsewhere classified		
G934	Other and unspecified encephalopathy		
R470	Dysphasia and aphasia		
R56	Convulsions, not elsewhere classified		
E40	Kwashiorkor	6	Weight Loss
E41	Nutritional marasmus		
E42	Marasmic kwashiorkor		
E43	Unspecified severe protein-calorie malnutrition		
E44	Protein-calorie malnutrition of moderate and mild degree		
E45	Retarded development following protein-calorie malnutrition		
E46	Unspecified protein-calorie malnutrition		
R634	Abnormal weight loss		
R64	Cachexia		
I099	Rheumatic heart disease, unspecified	7	Congestive Heart Failure
I110	Hypertensive heart disease with heart failure		
I130	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney		
I132	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or		
I255	Ischemic cardiomyopathy		

I420	Dilated cardiomyopathy			
I425	Other restrictive cardiomyopathy			
I426	Alcoholic cardiomyopathy			
I427	Cardiomyopathy due to drug and external agent			
I428	Other cardiomyopathies			
I429	Cardiomyopathy, unspecified			
I43	Cardiomyopathy in diseases classified elsewhere			
I50	Heart failure			
P290	Neonatal cardiac failure			
G041	Tropical spastic paraplegia	7	Paralysis	
G114	Hereditary spastic paraplegia			
G801	Spastic diplegic cerebral palsy			
G802	Spastic hemiplegic cerebral palsy			
G81	Hemiplegia and hemiparesis			
G82	Paraplegia (paraparesis) and quadriplegia (quadriparesis)			
G830	Diplegia of upper limbs			
G831	Monoplegia of lower limb			
G832	Monoplegia of upper limb			
G833	Monoplegia, unspecified			
G834	Cauda equina syndrome			
G839	Paralytic syndrome, unspecified			
C81	Hodgkin lymphoma	9		Lymphoma
C82	Follicular lymphoma			
C83	Non-follicular lymphoma			
C84	Mature T/NK-cell lymphomas			
C85	Other specified and unspecified types of non-Hodgkin lymphoma			
C88	Malignant immunoproliferative diseases and certain other B-cell lymphomas			
C900	Multiple myeloma			
C902	Extramedullary plasmacytoma			
C96	Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue			
B18	Chronic viral hepatitis	11	Liver Disease	
I85	Oesophageal varices			
K70	Alcoholic liver disease			
K711	Toxic liver disease with hepatic necrosis			
K713	Toxic liver disease with chronic persistent hepatitis			
K714	Toxic liver disease with chronic lobular hepatitis			
K715	Toxic liver disease with chronic active hepatitis			
K717	Toxic liver disease with fibrosis and cirrhosis of liver			
K72	Hepatic failure, not elsewhere classified			
K73	Chronic hepatitis, not elsewhere classified			
K74	Fibrosis and cirrhosis of liver			
K760	Fatty (change of) liver, not elsewhere classified			
K762	Central haemorrhagic necrosis of liver			

K763	Infarction of liver		
K764	Peliosis hepatis		
K765	Hepatic veno-occlusive disease		
K766	Portal hypertension		
K767	Hepatorenal syndrome		
K768	Other specified diseases of liver		
K769	Liver disease, unspecified		
Z944	Liver transplant status		
C77	Secondary and unspecified malignant neoplasm of lymph nodes	12	Metastatic Cancer
C78	Secondary malignant neoplasm of respiratory and digestive organs		
C79	Secondary malignant neoplasm of other and unspecified sites		
C80	Malignant neoplasm without specification of site		

C3 comorbidity score – C3

ICD10 code*	ICD10 description	C3 score	C3 group
E100	Insulin-dependent diabetes mellitus with coma	-0.13	Diabetes: uncomplicated
E101	Insulin-dependent diabetes mellitus with ketoacidosis		
E109	Insulin-dependent diabetes mellitus without complications		
E110	Non-insulin-dependent diabetes mellitus with hyperosmolarity		
E111	Non-insulin-dependent diabetes mellitus with ketoacidosis		
E119	Non-insulin-dependent diabetes mellitus without complications		
E120	Malnutrition-related diabetes mellitus with coma		
E121	Malnutrition-related diabetes mellitus with ketoacidosis		
E129	Malnutrition-related diabetes mellitus without complications		
E130	Other specified diabetes mellitus with hyperosmolarity		
E131	Other specified diabetes mellitus with ketoacidosis		
E139	Other specified diabetes mellitus without complications		
E140	Unspecified diabetes mellitus with hyperosmolarity		
E141	Unspecified diabetes mellitus with ketoacidosis		
E149	Unspecified diabetes mellitus without complications		
N301	Interstitial cystitis (chronic)	0.12	Urinary tract problem: chronic (not incl gender specific conditions)
N302	Other chronic cystitis		
N31	Neuromuscular dysfunction of bladder, not elsewhere classified		
N32	Other disorders of bladder		
N35	Urethral stricture		
N36	Other disorders of urethra		
C00	Malignant neoplasm of lip	0.20	Other malignancy
C01	Malignant neoplasm of base of tongue		

C02	Malignant neoplasm of other and unspecified parts of tongue		
C03	Malignant neoplasm of gum		
C04	Malignant neoplasm of floor of mouth		
C05	Malignant neoplasm of palate		
C06	Malignant neoplasm of other and unspecified parts of mouth		
C07	Malignant neoplasm of parotid gland		
C08	Malignant neoplasm of other and unspecified major salivary glands		
C09	Malignant neoplasm of tonsil		
C10	Malignant neoplasm of oropharynx		
C11	Malignant neoplasm of nasopharynx		
C12	Malignant neoplasm of pyriform sinus		
C13	Malignant neoplasm of hypopharynx		
C14	Malignant neoplasm of other and ill-defined sites in the lip, oral cavity and pharynx		
C15	Malignant neoplasm of oesophagus		
C16	Malignant neoplasm of stomach		
C17	Malignant neoplasm of small intestine		
C18	Malignant neoplasm of colon		
C19	Malignant neoplasm of rectosigmoid junction		
C20	Malignant neoplasm of rectum		
C21	Malignant neoplasm of anus and anal canal		
C22	Malignant neoplasm of liver and intrahepatic bile ducts		
C23	Malignant neoplasm of gallbladder		
C24	Malignant neoplasm of other and unspecified parts of biliary tract		
C25	Malignant neoplasm of pancreas		
C26	Malignant neoplasm of other and ill-defined digestive organs		
C30	Malignant neoplasm of nasal cavity and middle ear		
C31	Malignant neoplasm of accessory sinuses		
C32	Malignant neoplasm of larynx		
C33	Malignant neoplasm of trachea		
C34	Malignant neoplasm of bronchus and lung		
C37	Malignant neoplasm of thymus		
C38	Malignant neoplasm of heart, mediastinum and pleura		
C39	Malignant neoplasm of other and ill-defined sites in the respiratory system and intrathoracic organs		
C40	Malignant neoplasm of bone and articular cartilage of limbs		
C41	Malignant neoplasm of bone and articular cartilage of other and unspecified sites		
C43	Malignant melanoma of skin		
C45	Mesothelioma		
C46	Kaposi's sarcoma		
C47	Malignant neoplasm of peripheral nerves and autonomic nervous system		
C48	Malignant neoplasm of retroperitoneum and peritoneum		
C49	Malignant neoplasm of other connective and soft tissue		

C50	Malignant neoplasm of breast		
C51	Malignant neoplasm of vulva		
C52	Malignant neoplasm of vagina		
C53	Malignant neoplasm of cervix uteri		
C54	Malignant neoplasm of corpus uteri		
C55	Malignant neoplasm of uterus, part unspecified		
C56	Malignant neoplasm of ovary		
C57	Malignant neoplasm of other and unspecified female genital organs		
C58	Malignant neoplasm of placenta		
C60	Malignant neoplasm of penis		
C61	Malignant neoplasm of prostate		
C62	Malignant neoplasm of testis		
C63	Malignant neoplasm of other and unspecified male genital organs		
C64	Malignant neoplasm of kidney, except renal pelvis		
C65	Malignant neoplasm of renal pelvis		
C66	Malignant neoplasm of ureter		
C67	Malignant neoplasm of bladder		
C68	Malignant neoplasm of other and unspecified urinary organs		
C69	Malignant neoplasm of eye and adnexa		
C70	Malignant neoplasm of meninges		
C71	Malignant neoplasm of brain		
C72	Malignant neoplasm of spinal cord, cranial nerves and other parts of central nervous system		
C73	Malignant neoplasm of thyroid gland		
C74	Malignant neoplasm of adrenal gland		
C75	Malignant neoplasm of other endocrine glands and related structures		
C81	Hodgkin lymphoma		
C82	Follicular lymphoma		
C83	Non-follicular lymphoma		
C84	Mature T/NK-cell lymphomas		
C85	Other specified and unspecified types of non-Hodgkin lymphoma		
C88	Malignant immunoproliferative diseases and certain other B-cell lymphomas		
C90	Multiple myeloma and malignant plasma cell neoplasms		
C91	Lymphoid leukaemia		
C92	Myeloid leukaemia		
C93	Monocytic leukaemia		
C94	Other leukaemia's of specified cell type		
C95	Leukaemia of unspecified cell type		
M80	Osteoporosis with current pathological fracture	0.40	Osteoporosis & bone disorder
M810	Age-related osteoporosis without current pathological fracture		
M811	Postoophorectomy osteoporosis		
M815	Idiopathic osteoporosis		

M818	Other osteoporosis without current pathological fracture		
M819	Osteoporosis unspecified		
M831	Senile osteomalacia		
M832	Adult osteomalacia due to malabsorption		
M833	Adult osteomalacia due to malnutrition		
M834	Aluminum bone disease		
M835	Other drug-induced osteomalacia in adults		
M838	Other adult osteomalacia		
M839	Adult osteomalacia, unspecified		
M85	Other disorders of bone density and structure		
M863	Chronic multifocal osteomyelitis		
M864	Chronic osteomyelitis with draining sinus		
M865	Other chronic haematogenous osteomyelitis		
M866	Other chronic osteomyelitis		
M88	Osteitis deformans [Paget's disease of bone]		
H16	Keratitis	0.43	Eye problems likely to affect vision long-term
H181	Bullous keratopathy		
H184	Corneal degeneration		
H185	Hereditary corneal dystrophies		
H186	Keratoconus		
H201	Chronic iridocyclitis		
H212	Degeneration of iris and ciliary body		
H301	Disseminated chorioretinal inflammation		
H311	Choroidal degeneration		
H312	Hereditary choroidal dystrophy		
H313	Choroidal haemorrhage and rupture		
H314	Choroidal detachment		
H330	Retinal detachment with retinal break		
H332	Serous retinal detachment		
H333	Retinal breaks without detachment		
H334	Traction detachment of retina		
H335	Other retinal detachments		
H34	Retinal vascular occlusions		
H35	Other retinal disorders		
H43	Disorders of vitreous body		
H46	Optic neuritis		
H47	Other disorders of optic [2nd] nerve and visual pathways		
H49	Paralytic strabismus		
H50	Other strabismus		
H51	Other disorders of binocular movement		
H530	Amblyopia ex anopsia		
H531	Subjective visual disturbances		
H532	Diplopia		
H533	Other and unspecified disorders of binocular vision		

H534	Visual field defects		
H536	Night blindness		
H538	Other visual disturbances		
H539	Unspecified visual disturbance		
H54	Blindness and low vision		
Q12	Congenital lens malformations		
Q13	Congenital malformations of anterior segment of eye		
Q14	Congenital malformations of posterior segment of eye		
Q15	Other congenital malformations of eye		
H80	Otosclerosis	0.43	Inner ear disorder
H81	Disorders of vestibular function		
H83	Other diseases of inner ear		
H90	Conductive and sensorineural hearing loss		
H910	Ototoxic hearing loss		
H911	Presbycusis		
H913	Deaf nonspeaking, not elsewhere classified		
H918	Other specified hearing loss		
H919	Unspecified hearing loss		
H930	Degenerative and vascular disorders of ear		
H931	Tinnitus		
H932	Other abnormal auditory perceptions		
H933	Disorders of acoustic nerve		
E66	Overweight and obesity	0.43	
K220	Achalasia of cardia	0.46	GI ulcer & upper GI disease
K221	Ulcer of oesophagus		
K224	Dyskinesia of oesophagus		
K225	Diverticulum of oesophagus, acquired		
K228	Other specified diseases of oesophagus		
K229	Disease of oesophagus, unspecified		
K25	Gastric ulcer		
K26	Duodenal ulcer		
K27	Peptic ulcer, site unspecified		
K28	Gastrojejunal ulcer		
K311	Adult hypertrophic pyloric stenosis		
K312	Hourglass stricture and stenosis of stomach		
K314	Gastric diverticulum		
K316	Fistula of stomach and duodenum		
I70	Atherosclerosis	0.47	Peripheral vascular disease
I71	Aortic aneurysm and dissection		
I72	Other aneurysm		
I731	Thromboangiitis obliterans [Buerger's disease]		
I738	Other specified peripheral vascular diseases		
I739	Peripheral vascular disease, unspecified		
I771	Stricture of artery		

K551	Chronic vascular disorders of intestine		
K552	Angiodysplasia of colon		
K558	Other vascular disorders of intestine		
K559	Vascular disorder of intestine, unspecified		
E70	Disorders of aromatic amino-acid metabolism	0.51	Metabolic disorder
E71	Disorders of branched-chain amino-acid metabolism and fatty-acid metabolism		
E72	Other disorders of amino-acid metabolism		
E74	Other disorders of carbohydrate metabolism		
E75	Disorders of sphingolipid metabolism and other lipid storage disorders		
E76	Disorders of glycosaminoglycan metabolism		
E77	Disorders of glycoprotein metabolism		
E78	Disorders of lipoprotein metabolism and other lipidemias		
E791	Lesch-Nyhan syndrome		
E798	Other disorders of purine and pyrimidine metabolism		
E799	Disorder of purine and pyrimidine metabolism, unspecified		
E80	Disorders of porphyrin and bilirubin metabolism		
E83	Disorders of mineral metabolism		
E85	Amyloidosis		
E88	Other and unspecified metabolic disorders		
K50	Crohn's disease [regional enteritis]	0.55	
K51	Ulcerative colitis		
K522	Allergic and dietetic gastroenteritis and colitis		
K528	Other specified noninfective gastroenteritis and colitis		
K529	Noninfective gastroenteritis and colitis, unspecified		
D55	Anaemia due to enzyme disorders	0.56	Coagulopathy and other blood disorder
D56	Thalassemia		
D57	Sickle-cell disorders		
D58	Other hereditary haemolytic anaemias		
D590	Drug-induced autoimmune haemolytic anaemia		
D591	Other autoimmune haemolytic anaemias		
D592	Drug-induced nonautoimmune haemolytic anaemia		
D593	Haemolytic-uremic syndrome		
D594	Other nonautoimmune haemolytic anaemias		
D598	Other acquired haemolytic anaemias		
D599	Acquired haemolytic anaemia, unspecified		
D60	Acquired pure red cell aplasia [erythroblastopenia]		
D61	Other aplastic anaemias and other bone marrow failure syndromes		
D64	Other anaemias		
D66	Hereditary factor VIII deficiency		
D67	Hereditary factor IX deficiency		
D68	Other coagulation defects		
D691	Qualitative platelet defects		
D692	Other nonthrombocytopenic purpura		

D693	Immune thrombocytopenic purpura		
D694	Other primary thrombocytopenia		
D696	Thrombocytopenia, unspecified		
D698	Other specified haemorrhagic conditions		
D699	Haemorrhagic condition, unspecified		
D70	Neutropenia		
D71	Functional disorders of polymorphonuclear neutrophils		
D72	Other disorders of white blood cells		
D74	Methemoglobinemia		
D750	Familial erythrocytosis		
D752	Essential thrombocytosis		
D758	Other specified diseases of blood and blood-forming organs		
D759	Disease of blood and blood-forming organs, unspecified		
I20	Angina pectoris	0.58	Angina
L93	Lupus erythematosus	0.59	Connective tissue disease
M05	Rheumatoid arthritis with rheumatoid factor		
M06	Other rheumatoid arthritis		
M08	Juvenile arthritis		
M120	Chronic postrheumatic arthropathy [Jaccoud]		
M123	Palindromic rheumatism		
M30	Polyarteritis nodosa and related conditions		
M31	Other necrotizing vasculopathies		
M32	Systemic lupus erythematosus (SLE)		
M33	Dermatopolymyositis		
M34	Systemic sclerosis [scleroderma]		
M35	Other systemic involvement of connective tissue		
G950	Syringomyelia and syringobulbia	0.63	
G951	Vascular myelopathies		
M07	Enteropathic arthropathies		
M13	Other arthritis		
M150	Primary generalized (osteo)arthritis		
M151	Heberden's nodes (with arthropathy)		
M152	Bouchard's nodes (with arthropathy)		
M154	Erosive (osteo)arthritis		
M158	Other polyosteoarthritis		
M159	Polyosteoarthritis, unspecified		
M400	Postural kyphosis		
M402	Other and unspecified kyphosis		
M403	Flatback syndrome		
M404	Postural lordosis		
M405	Lordosis, unspecified		
M41	Scoliosis		
M42	Spinal osteochondrosis		
M43	Other deforming dorsopathies		

M45	Ankylosing spondylitis		
M453	Ankylosing spondylitis of cervicothoracic region		
M454	Ankylosing spondylitis of thoracic region		
M455	Ankylosing spondylitis of thoracolumbar region		
M456	Ankylosing spondylitis lumbar region		
M457	Ankylosing spondylitis of lumbosacral region		
M458	Ankylosing spondylitis sacral and sacrococcygeal region		
M459	Ankylosing spondylitis of unspecified sites in spine		
M45X	Ankylosing spondylitis		
M460	Spinal enthesopathy		
M461	Sacroiliitis, not elsewhere classified		
M462	Osteomyelitis of vertebra		
M468	Other specified inflammatory spondylopathies		
M469	Unspecified inflammatory spondylopathy		
M47	Spondylosis		
M480	Spinal stenosis		
M481	Ankylosing hyperostosis [Forestier]		
M482	Kissing spine		
M485	Collapsed vertebra, not elsewhere classified		
M488	Other specified spondylopathies		
M489	Spondylopathy, unspecified		
E102	Insulin-dependent diabetes mellitus with kidney complications	0.64	Diabetes: with complications
E103	Insulin-dependent diabetes mellitus with ophthalmic complications		
E104	Insulin-dependent diabetes mellitus with neurological complications		
E105	Insulin-dependent diabetes mellitus with circulatory complications		
E106	Insulin-dependent diabetes mellitus with other specified complications		
E107	Insulin-dependent diabetes mellitus with multiple complications		
E108	Insulin-dependent diabetes mellitus with unspecified complications		
E112	Non-insulin-dependent diabetes mellitus with kidney complications		
E113	Non-insulin-dependent diabetes mellitus with ophthalmic complications		
E114	Non-insulin-dependent diabetes mellitus with neurological complications		
E115	Non-insulin-dependent diabetes mellitus with circulatory complications		
E116	Non-insulin-dependent diabetes mellitus with other specified complications		
E117	Non-insulin-dependent diabetes mellitus with multiple complications		
E118	Non-insulin-dependent diabetes mellitus with unspecified complications		
E122	Malnutrition-related diabetes mellitus with renal complications		

E123	Malnutrition-related diabetes mellitus with ophthalmic complications		
E124	Malnutrition-related diabetes mellitus with neurological complications		
E125	Malnutrition-related diabetes mellitus with peripheral circulatory complications		
E126	Malnutrition-related diabetes mellitus with other specified complications		
E127	Malnutrition-related diabetes mellitus with multiple complications		
E128	Malnutrition-related diabetes mellitus with unspecified complications		
E132	Other specified diabetes mellitus with kidney complications		
E133	Other specified diabetes mellitus with ophthalmic complications		
E134	Other specified diabetes mellitus with neurological complications		
E135	Other specified diabetes mellitus with circulatory complications		
E136	Other specified diabetes mellitus with other specified complications		
E137	Other specified diabetes mellitus with multiple complications		
E138	Other specified diabetes mellitus with unspecified complications		
E142	Unspecified diabetes mellitus with kidney complications		
E143	Unspecified diabetes mellitus with ophthalmic complications		
E144	Unspecified diabetes mellitus with neurological complications		
E145	Unspecified diabetes mellitus with circulatory complications		
E146	Unspecified diabetes mellitus with other specified complications		
E147	Unspecified diabetes mellitus with multiple complications		
E148	Unspecified diabetes mellitus with unspecified complications		
E01	Iodine-deficiency related thyroid disorders and allied conditions	0.68	Endocrine disorder
E02	Subclinical iodine-deficiency hypothyroidism		
E03	Other hypothyroidism		
E035	Myxedema coma		
E038	Other specified hypothyroidism		
E039	Hypothyroidism, unspecified		
E03X	Other hypothyroidism		
E05	Thyrotoxicosis [hyperthyroidism]		
E050	Thyrotoxicosis with diffuse goitre		
E051	Thyrotoxicosis with toxic single thyroid nodule		
E052	Thyrotoxicosis with toxic multinodular goitre		
E053	Thyrotoxicosis with ectopic thyroid tissue		
E054	Thyrotoxicosis factitia		
E055	Thyroid crisis of storm		
E058	Other thyrotoxicosis		
E059	Thyrotoxicosis unspecified		
E05X	Thyrotoxicosis [hyperthyroidism]		

E062	Chronic thyroiditis with transient thyrotoxicosis		
E063	Autoimmune thyroiditis		
E065	Other chronic thyroiditis		
E07	Other disorders of thyroid		
E163	Increased secretion of glucagon		
E164	Increased secretion of gastrin		
E168	Other specified disorders of pancreatic internal secretion		
E169	Disorder of pancreatic internal secretion, unspecified		
E20	Hypoparathyroidism		
E210	Primary hyperparathyroidism		
E212	Other hyperparathyroidism		
E213	Hyperparathyroidism, unspecified		
E214	Other specified disorders of parathyroid gland		
E215	Disorder of parathyroid gland, unspecified		
E22	Hyperfunction of pituitary gland		
E230	Hypopituitarism		
E232	Diabetes insipidus		
E233	Hypothalamic dysfunction, not elsewhere classified		
E236	Other disorders of pituitary gland		
E237	Disorder of pituitary gland, unspecified		
E240	Pituitary-dependent Cushing's disease		
E241	Nelson's syndrome		
E243	Ectopic ACTH syndrome		
E244	Alcohol-induced pseudo-Cushing's syndrome		
E248	Other Cushing's syndrome		
E249	Cushing's syndrome, unspecified		
E25	Adrenogenital disorders		
E26	Hyperaldosteronism		
E27	Other disorders of adrenal gland		
E31	Polyglandular dysfunction		
E32	Diseases of thymus		
E345	Androgen insensitivity syndrome		
E348	Other specified endocrine disorders		
E349	Endocrine disorder, unspecified		
F20	Schizophrenia	0.75	Major psychiatric disorder
F22	Delusional disorders		
F25	Schizoaffective disorders		
F28	Other psychotic disorder not due to a substance or known physiological condition		
F29	Unspecified psychosis not due to a substance or known physiological condition		
F302	Manic episode, severe with psychotic symptoms		
F31	Bipolar disorder		
F321	Major depressive disorder, single episode, moderate		
F322	Major depressive disorder, single episode, severe without psychotic features		

F323	Major depressive disorder, single episode, severe with psychotic features		
F328	Other depressive episodes		
F329	Major depressive disorder, single episode, unspecified		
F33	Major depressive disorder, recurrent		
F39	Unspecified mood [affective] disorder		
I10	Essential (primary) hypertension	0.78	Hypertension: primary
I119	Hypertensive heart disease without heart failure		
I129	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease		
I139	Hypertensive heart and renal disease, unspecified		
I441	Atrioventricular block, second degree	0.84	Cardiac arrhythmia
I442	Atrioventricular block, complete		
I443	Other and unspecified atrioventricular block		
I456	Pre-excitation syndrome		
I459	Conduction disorder, unspecified		
I47	Paroxysmal tachycardia		
I48	Atrial fibrillation and flutter		
I49	Other cardiac arrhythmias		
T821	Mechanical complication of cardiac electronic device		
Z450	Encounter for adjustment and management of cardiac device		
Z950	Presence of cardiac pacemaker		
I21	ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction	0.94	Myocardial Infarction
I22	Subsequent ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction		
I23	Certain current complications following ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction		
I241	Dressler's syndrome		
I252	Old myocardial infarction		
I05	Rheumatic mitral valve diseases	0.98	Cardiac valve disease
I06	Rheumatic aortic valve diseases		
I07	Rheumatic tricuspid valve diseases		
I07X	Rheumatic tricuspid valve diseases		
I08	Multiple valve diseases		
I091	Rheumatic diseases of endocardium, valve unspecified		
I098	Other specified rheumatic heart diseases		
I34	Nonrheumatic mitral valve disorders		
I35	Nonrheumatic aortic valve disorders		
I36	Nonrheumatic tricuspid valve disorders		
I37	Nonrheumatic pulmonary valve disorders		
I38	Endocarditis, valve unspecified		
Q230	Congenital stenosis of aortic valve		
Q231	Congenital insufficiency of aortic valve		

Q232	Congenital mitral stenosis			
Q233	Congenital mitral insufficiency			
Q238	Other congenital malformations of aortic and mitral valves			
Q239	Congenital malformation of aortic and mitral valves, unspecified			
T820	Mechanical complication of heart valve prosthesis			
Z952	Presence of prosthetic heart valve			
Z953	Presence of xenogenic heart valve			
Z954	Presence of other heart-valve replacement			
F40	Phobic anxiety disorders	0.99	Anxiety and behavioural disorders	
F41	Other anxiety disorders			
F42	Obsessive-compulsive disorder			
F44	Dissociative and conversion disorders			
F45	Somatoform disorders			
F48	Other nonpsychotic mental disorders			
F50	Eating disorders			
F55	Abuse of non-psychoactive substances			
F59	Unspecified behavioural syndromes associated with physiological disturbances and physical factors			
F60	Specific personality disorders			
F61	Mixed and other personality disorders			
F63	Impulse disorders			
F64	Gender identity disorders			
F65	Disorders of sexual preference			
F66	Other sexual disorders			
F68	Other disorders of adult personality and behaviour			
F69	Unspecified disorder of adult personality and behaviour			
E84	Cystic fibrosis	1.00		Chronic pulmonary disease
J40	Bronchitis, not specified as acute or chronic			
J41	Simple and mucopurulent chronic bronchitis			
J42	Unspecified chronic bronchitis			
J43	Emphysema			
J44	Other chronic obstructive pulmonary disease			
J45	Asthma			
J46	Status asthmaticus			
J47	Bronchiectasis			
J60	Coalworker's pneumoconiosis			
J61	Pneumoconiosis due to asbestos and other mineral fibres			
J62	Pneumoconiosis due to dust containing silica			
J63	Pneumoconiosis due to other inorganic dusts			
J64	Unspecified pneumoconiosis			
J65	Pneumoconiosis associated with tuberculosis			
J66	Airway disease due to specific organic dust			
J67	Hypersensitivity pneumonitis due to organic dust			
J684	Chronic respiratory conditions due to chemicals, gases, fumes and vapours			

J701	Chronic and other pulmonary manifestations due to radiation		
J703	Chronic drug-induced interstitial lung disorders		
J84	Other interstitial pulmonary diseases		
J961	Chronic respiratory failure		
J980	Diseases of bronchus, not elsewhere classified		
J982	Interstitial emphysema		
J983	Compensatory emphysema		
J984	Other disorders of lung		
F101	Alcohol abuse	1.03	Alcohol abuse
F102	Alcohol dependence		
F103	Alcohol withdrawal state		
F104	Alcohol withdrawal state with delirium		
F105	Alcohol psychotic disorder		
F106	Alcohol amnesic syndrome		
F107	Alcohol residual and late-onset psychotic disorder		
F108	Alcohol other mental and behavioural state		
F109	Alcohol use, unspecified		
F10X	Mental and behavioural disorders due to use of alcohol		
Z502	Alcohol rehabilitation		
Z714	Alcohol abuse counselling and surveillance		
G60	Hereditary and idiopathic neuropathy	1.05	Muscular & peripheral nerve disorder
G61	Inflammatory polyneuropathy		
G62	Other and unspecified polyneuropathies		
G64	Other disorders of peripheral nervous system		
G70	Myasthenia gravis and other myoneural disorders		
G71	Primary disorders of muscles		
G720	Drug-induced myopathy		
G721	Alcoholic myopathy		
G722	Myopathy due to other toxic agents		
G723	Periodic paralysis		
G724	Inflammatory and immune myopathies, not elsewhere classified		
G728	Other specified myopathies		
G729	Myopathy, unspecified		
G731	Lambert-Eaton syndrome in neoplastic disease		
E40	Kwashiorkor	1.11	Malnutrition and nutritional disorder
E41	Nutritional marasmus		
E42	Marasmic kwashiorkor		
E43	Unspecified severe protein-calorie malnutrition		
E44	Protein-calorie malnutrition of moderate and mild degree		
E45	Retarded development following protein-calorie malnutrition		
E46	Unspecified protein-calorie malnutrition		
E50	Vitamin A deficiency		
E51	Thiamine deficiency		
E52	Niacin deficiency [pellagra]		

E53	Deficiency of other B group vitamins		
E54	Ascorbic acid deficiency		
E55	Vitamin D deficiency		
E56	Other vitamin deficiencies		
E58	Dietary calcium deficiency		
E59	Dietary selenium deficiency		
E60	Dietary zinc deficiency		
E61	Deficiency of other nutrient elements		
E63	Other nutritional deficiencies		
E64	Sequelae of malnutrition and other nutritional deficiencies		
F00	Dementia in Alzheimer disease	1.14	Dementia
F01	Vascular dementia		
F020	Dementia in Pick disease		
F021	Dementia in Creutzfeld-Jakob disease		
F022	Dementia in Huntington disease		
F023	Dementia in Parkinson disease		
F03	Unspecified dementia		
F051	Delirium superimposed on dementia		
G30	Alzheimer's disease		
G310	Frontotemporal dementia		
G311	Senile degeneration of brain, not elsewhere classified		
G10	Huntington's disease	1.14	Other neurological disorders excluding epilepsy
G110	Congenital nonprogressive ataxia		
G111	Early-onset cerebellar ataxia		
G112	Late-onset cerebellar ataxia		
G113	Cerebellar ataxia with defective DNA repair		
G118	Other hereditary ataxias		
G119	Hereditary ataxia, unspecified		
G12	Spinal muscular atrophy and related syndromes		
G13	Systemic atrophies primarily affecting central nervous system in diseases classified elsewhere		
G20	Parkinson's disease		
G21	Secondary parkinsonism		
G22	Parkinsonism in diseases classified elsewhere		
G23	Other degenerative diseases of basal ganglia		
G254	Drug-induced chorea		
G255	Other chorea		
G312	Degeneration of nervous system due to alcohol		
G318	Other specified degenerative diseases of nervous system		
G319	Degenerative disease of nervous system, unspecified		
G35	Multiple sclerosis		
G36	Other acute disseminated demyelination		
G37	Other demyelinating diseases of central nervous system		
G90	Disorders of autonomic nervous system		
G934	Other and unspecified encephalopathy		

R470	Dysphasia and aphasia		
I26	Pulmonary embolism	1.14	Pulmonary circulation disorder
I27	Other pulmonary heart diseases		
I280	Arteriovenous fistula of pulmonary vessels		
I281	Aneurysm of pulmonary artery		
I288	Other diseases of pulmonary vessels		
I289	Disease of pulmonary vessels, unspecified		
I099	Rheumatic heart disease, unspecified	1.16	Congestive heart failure
I099	Rheumatic heart disease unspecified		
I110	Hypertensive heart disease with heart failure		
I110	Hypertensive heart disease with heart failure		
I130	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney		
I132	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or		
I255	Ischemic cardiomyopathy		
I420	Dilated cardiomyopathy		
I425	Other restrictive cardiomyopathy		
I426	Alcoholic cardiomyopathy		
I427	Cardiomyopathy due to drug and external agent		
I428	Other cardiomyopathies		
I429	Cardiomyopathy, unspecified		
I43	Cardiomyopathy in diseases classified elsewhere		
I50	Heart failure		
I120	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	1.18	Chronic renal disease
I120	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease		
I131	Hypertensive heart and chronic kidney disease without heart failure		
I132	Hypertensive heart and chronic kidney disease without heart failure		
N032	Chronic nephritic syndrome with diffuse membranous glomerulonephritis		
N033	Chronic nephritic syndrome with diffuse mesangial proliferative glomerulonephritis		
N034	Chronic nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis		
N035	Chronic nephritic syndrome with diffuse mesangiocapillary glomerulonephritis		
N036	Chronic nephritic syndrome with dense deposit disease		
N037	Chronic nephritic syndrome with diffuse crescentic glomerulonephritis		
N038	Chronic nephritic syndrome with other morphologic changes		
N039	Chronic nephritic syndrome with unspecified morphologic changes		
N042	Nephrotic syndrome with diffuse membranous glomerulonephritis		
N043	Nephrotic syndrome with diffuse mesangial proliferative glomerulonephritis		
N044	Nephrotic syndrome with diffuse endocapillary proliferative glomerulonephritis		

N045	Nephrotic syndrome with diffuse mesangiocapillary glomerulonephritis			
N046	Nephrotic syndrome with dense deposit disease			
N047	Nephrotic syndrome with diffuse crescentic glomerulonephritis			
N048	Nephrotic syndrome with other morphologic changes			
N049	Nephrotic syndrome with unspecified morphologic changes			
N052	Unspecified nephritic syndrome with diffuse membranous glomerulonephritis			
N053	Unspecified nephritic syndrome with diffuse mesangial proliferative glomerulonephritis			
N054	Unspecified nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis			
N055	Unspecified nephritic syndrome with diffuse mesangiocapillary glomerulonephritis			
N056	Unspecified nephritic syndrome with dense deposit disease			
N057	Unspecified nephritic syndrome with diffuse crescentic glomerulonephritis			
N058	Unspecified nephritic syndrome with other morphologic changes			
N059	Unspecified nephritic syndrome with unspecified morphologic changes			
N11	Chronic tubulo-interstitial nephritis			
N18	Chronic kidney disease (CKD)			
N19	Unspecified kidney failure			
N250	Renal osteodystrophy			
N258	Other disorders resulting from impaired renal tubular function			
N259	Disorder resulting from impaired renal tubular function, unspecified			
Z49	Encounter for care involving renal dialysis			
Z992	Dependence on renal dialysis			
G45	Transient cerebral ischemic attacks and related syndromes	1.21	Cerebrovascular disease	
G46	Vascular syndromes of brain in cerebrovascular diseases			
I60	Nontraumatic subarachnoid haemorrhage			
I61	Nontraumatic intracerebral haemorrhage			
I62	Other and unspecified nontraumatic intracranial haemorrhage			
I63	Cerebral infarction			
I64	Stroke, not specified as haemorrhage or infarction			
I65	Occlusion and stenosis of precerebral arteries, not resulting in cerebral infarction			
I658	Occlusion and stenosis of other precerebral arteries			
I659	Occlusion and stenosis of unspecified precerebral artery			
I65X	Occlusion and stenosis of precerebral arteries, not resulting in cerebral infarction			
I66	Occlusion and stenosis of cerebral arteries, not resulting in cerebral infarction			
I67	Other cerebrovascular diseases			
I69	Sequelae of cerebrovascular disease			
I85	Oesophageal varices	1.21		Liver disease: moderate or severe
I864	Gastric varices			

I982	Oesophageal varices without bleeding in diseases classified elsewhere			
K70	Alcoholic liver disease			
K710	Alcoholic liver disease, unspecified			
K711	Toxic liver disease with hepatic necrosis			
K713	Toxic liver disease with chronic persistent hepatitis			
K714	Toxic liver disease with chronic lobular hepatitis			
K715	Toxic liver disease with chronic active hepatitis			
K717	Toxic liver disease with fibrosis and cirrhosis of liver			
K721	Chronic hepatic failure			
K729	Hepatic failure, unspecified			
K73	Chronic hepatitis, not elsewhere classified			
K74	Fibrosis and cirrhosis of liver			
K760	Fatty (change of) liver, not elsewhere classified			
K762	Central haemorrhagic necrosis of liver			
K763	Infarction of liver			
K764	Peliosis hepatis			
K765	Hepatic veno-occlusive disease			
K766	Portal hypertension			
K767	Hepatorenal syndrome			
K768	Other specified diseases of liver			
K769	Liver disease, unspecified			
Z944	Liver transplant status			
G041	Tropical spastic paraplegia	1.28	Paralysis	
G114	Hereditary spastic paraplegia			
G114	Hereditary spastic paraplegia			
G800	Spastic quadriplegic cerebral palsy			
G801	Spastic diplegic cerebral palsy			
G802	Spastic hemiplegic cerebral palsy			
G81	Hemiplegia and hemiparesis			
G82	Paraplegia (paraparesis) and quadriplegia (quadriparesis)			
G830	Diplegia of upper limbs			
G831	Monoplegia of lower limb			
G832	Monoplegia of upper limb			
G833	Monoplegia, unspecified			
G834	Cauda equina syndrome			
G839	Paralytic syndrome, unspecified			
F51	Sleep disorders not due to a substance or known physiological condition	1.35		Sleep disorder
G470	Insomnia			
G471	Hypersomnia			
G472	Circadian rhythm sleep disorders			
G473	Sleep apnoea			

Adapted diabetes complications index score – aDCSI

ICD10 code*	Description	aDCSI score	aDCSI severity	aDCSI description
E109	Insulin-dependent diabetes mellitus without complication	0		Uncomplicated
E119	Non-insulin-dependent diabetes mellitus without complications			
E129	Malnutrition-related diabetes mellitus without complications			
E139	Other specified diabetes mellitus without complications			
E149	Unspecified diabetes mellitus without complications			
E103	Insulin-dependent diabetes mellitus with ophthalmic complications	1	Moderate	Ocular
E113	Non-insulin-dependent 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			
H280	Diabetic cataract			
H350	Background retinopathy and retinal vascular changes			
H353	Degeneration of macula and posterior pole			
H356	Retinal haemorrhage			
H358	Other specified retinal disorders			
H360	Diabetic retinopathy			
H352	Other proliferative retinopathy	2	Severe	
H330	Retinal detachment and breaks			
H540	Blindness, binocular			
H544	Blindness, monocular			
H431	Vitreous haemorrhage			
E102	Insulin-dependent diabetes mellitus with renal complications	1	Moderate	Renal
E112	Non-insulin-dependent diabetes mellitus with renal complications			
E122	Malnutrition-related diabetes mellitus with renal complications			
E132	Other specified diabetes mellitus with renal complications			
E142	Unspecified diabetes mellitus with renal complications			
N083	Glomerular disorders in diabetes mellitus			
N03	Chronic nephritic syndrome			
N04	Nephrotic syndrome			

N05	Unspecified nephritic syndrome			
N17	Acute renal failure	2	Severe	
N18	Chronic kidney disease			
N19	Unspecified kidney failure			
T824	Mechanical complication of vascular dialysis catheter			
Z49	Care involving dialysis			
Z992	Dependence on renal dialysis			
E104	Insulin-dependent diabetes mellitus with neurological complications	1	Moderate	Neurological
E114	Non-insulin-dependent diabetes mellitus with neurological complications			
E124	Malnutrition-related diabetes mellitus with neurological complications			
E134	Other specified diabetes mellitus with neurological complications			
E144	Unspecified diabetes mellitus with neurological complications			
G609	Hereditary and idiopathic neuropathy, unspecified			
G730	Myasthenic syndromes in endocrine diseases			
H490	Third (oculomotor) nerve palsy			
H491	Fourth (trochlear) nerve palsy			
H492	Sixth (abducent) nerve palsy			
G590	Diabetic mononeuropathy			
M146	Neuropathic arthropathy			
M142	Diabetic arthropathy			
G632	Diabetic polyneuropathy			
G990	Autonomic neuropathy in endocrine and metabolic disorders			
G45	Transient cerebral ischaemic attacks and related syndromes	1	Moderate	Cerebrovascular
I61	Intracerebral haemorrhage			
I63	Cerebral infarction			
I64	Stroke, not specified as haemorrhage or infarction			
I69	Sequelae of cerebrovascular disease			
I70	Atherosclerosis	1	Moderate	Cardiovascular
I24	Other acute ischemic heart diseases			
I20	Angina pectoris			
I25	Chronic ischemic heart disease			
I21	Acute myocardial infarction	2	Severe	
I23	Certain current complications following acute myocardial infarction			

I490	Ventricular fibrillation and flutter			
I46	Cardiac arrest			
I48	Atrial fibrillation and flutter			
I22	Subsequent myocardial infarction			
I50	Heart failure			
I110	Hypertensive heart disease with (congestive) heart failure			
I130	Hypertensive heart and renal disease with (congestive) heart failure			
I71	Aortic aneurysm and dissection			
E105	Insulin-dependent diabetes mellitus with peripheral circulatory complications	1	Moderate	Peripheral vascular
E115	Non-insulin-dependent diabetes mellitus with peripheral circulatory complications			
E125	Malnutrition-related diabetes mellitus with peripheral circulatory complications			
E135	Other specified diabetes mellitus with peripheral circulatory complications			
E145	Unspecified diabetes mellitus with peripheral circulatory complications			
I792	Peripheral angiopathy in diseases classified elsewhere			
I724	Aneurysm and dissection of artery of lower extremity			
I739	Peripheral vascular disease, unspecified			
I743	Embolism and thrombosis of arteries of lower extremities	2	Severe	
R02	Gangrene, not elsewhere classified			
I702	Atherosclerosis of arteries of extremities			
A480	Gas gangrene			
L97	Non pressure chronic ulcer of lower limb, not elsewhere classified			
L984	Non pressure chronic ulcer of skin, not elsewhere classified			
E100	Insulin-dependent diabetes mellitus with coma	2	Severe	Metabolic
E110	Non-insulin-dependent diabetes mellitus with coma			
E120	Malnutrition-related diabetes mellitus with coma			
E130	Other specified diabetes mellitus with coma			
E140	Unspecified diabetes mellitus with coma			
E101	Insulin-dependent diabetes mellitus with ketoacidosis			
E111	Non-insulin-dependent diabetes mellitus with ketoacidosis			
E121	Malnutrition-related diabetes mellitus with ketoacidosis			
E131	Other specified diabetes mellitus with ketoacidosis			
E141	Unspecified diabetes mellitus with ketoacidosis			

PRIMARY PROCEDURE INFORMATION

Primary procedure – PROCTYPE

OPCS 4 code	OPCS4 description	CORECT-R code	CORECT-R description
H041	Panproctocolectomy and ileostomy	1	Major resection
H042	Panproctocolectomy and anastomosis of ileum to anus and creation of pouch HFQ		
H043	Panproctocolectomy and anastomosis of ileum to anus NEC		
H048	Other specified total excision of colon and rectum		
H049	Unspecified total excision of colon and rectum		
H051	Total colectomy and anastomosis of ileum to rectum		
H052	Total colectomy and ileostomy and creation of rectal fistula HFQ		
H053	Total colectomy and ileostomy NEC		
H058	Other specified total excision of colon		
H059	Unspecified total excision of colon		
H061	Extended right hemicolectomy and end to end anastomosis		
H062	Extended right hemicolectomy and anastomosis of ileum to colon		
H063	Extended right hemicolectomy and anastomosis NEC		
H064	Extended right hemicolectomy and ileostomy HFQ		
H065	Extended right hemicolectomy and end to side anastomosis		
H068	Other specified extended excision of right hemicolon		
H069	Unspecified extended excision of right hemicolon		
H071	Right hemicolectomy and end to end anastomosis of ileum to colon		
H072	Right hemicolectomy and side to side anastomosis of ileum to transverse colon		
H073	Right hemicolectomy and anastomosis NEC		
H074	Right hemicolectomy and ileostomy HFQ		
H075	Right hemicolectomy and end to side anastomosis		
H078	Other specified other excision of right hemicolon		
H079	Unspecified other excision of right hemicolon		
H081	Transverse colectomy and end to end anastomosis		
H082	Transverse colectomy and anastomosis of ileum to colon		
H083	Transverse colectomy and anastomosis NEC		
H084	Transverse colectomy and ileostomy HFQ		
H085	Transverse colectomy and exteriorisation of bowel NEC		
H086	Transverse colectomy and end to side anastomosis		
H088	Other specified excision of transverse colon		
H089	Unspecified excision of transverse colon		
H091	Left hemicolectomy and end to end anastomosis of colon to rectum		
H092	Left hemicolectomy and end to end anastomosis of colon to colon		
H093	Left hemicolectomy and anastomosis NEC		
H094	Left hemicolectomy and ileostomy HFQ		

H095	Left hemicolectomy and exteriorisation of bowel NEC		
H096	Left hemicolectomy and end to side anastomosis		
H098	Other specified excision of left hemicolon		
H099	Unspecified excision of left hemicolon		
H101	Sigmoid colectomy and end to end anastomosis of ileum to rectum		
H102	Sigmoid colectomy and anastomosis of colon to rectum		
H103	Sigmoid colectomy and anastomosis NEC		
H104	Sigmoid colectomy and ileostomy HFQ		
H105	Sigmoid colectomy and exteriorisation of bowel NEC		
H106	Sigmoid colectomy and end to side anastomosis		
H108	Other specified excision of sigmoid colon		
H109	Unspecified excision of sigmoid colon		
H111	Colectomy and end to end anastomosis of colon to colon NEC		
H112	Colectomy and side to side anastomosis of ileum to colon NEC		
H113	Colectomy and anastomosis NEC		
H114	Colectomy and ileostomy NEC		
H115	Colectomy and exteriorisation of bowel NEC		
H116	Colectomy and end to side anastomosis NEC		
H118	Other specified other excision of colon		
H119	Unspecified other excision of colon		
H152	End colostomy		
H291	Subtotal excision of colon and rectum and creation of colonic pouch and anastomosis of colon to anus		
H292	Subtotal excision of colon and rectum and creation of colonic pouch NEC		
H293	Subtotal excision of colon and creation of colonic pouch and anastomosis of colon to rectum		
H294	Subtotal excision of colon and creation of colonic pouch NEC		
H298	Other specified subtotal excision of colon		
H299	Unspecified subtotal excision of colon		
H308	Other specified other operations on colon		
H309	Unspecified other operations on colon		
H328	Other specified exteriorisation of colon		
H329	Unspecified exteriorisation of colon		
H331	Abdominoperineal excision of rectum and end colostomy		
H332	Proctectomy and anastomosis of colon to anus		
H333	Anterior resection of rectum and anastomosis of colon to rectum using staples		
H334	Anterior resection of rectum and anastomosis NEC		
H335	Rectosigmoidectomy and closure of rectal stump and exteriorisation of bowel		
H336	Anterior resection of rectum and exteriorisation of bowel		
H337	Perineal resection of rectum HFQ		
H338	Other specified excision of rectum		
H339	Unspecified excision of rectum		

H341	Open excision of lesion of rectum		
H348	Other specified open extirpation of lesion of rectum		
H349	Unspecified open extirpation of lesion of rectum		
H404	Trans-sphincteric anastomosis of colon to anus		
H411	Rectosigmoidectomy and peranal anastomosis		
H414	Peranal mucosal proctectomy and endoanal anastomosis		
H415	Peranal resection of rectum using staples		
H47	Excision of anus		
H471	Excision of sphincter of anus		
H478	Other specified excision of anus		
H479	Unspecified excision of anus		
H628	Other specified other operations on bowel		
H629	Unspecified other operations on bowel		
X141	Total exenteration of pelvis		
X142	Anterior exenteration of pelvis		
X143	Posterior exenteration of pelvis		
X148	Other specified clearance of pelvis		
X149	Unspecified clearance of pelvis		
Y502	Laparotomy approach NEC		
Y508	Other specified approach through abdominal cavity		
Y509	Unspecified approach through abdominal cavity		
Y701	Emergency operations NOC		
Y702	Immediate operations NOC		
Y703	First stage of staged operations NOC		
Y704	Primary operations NOC		
Y708	Other specified early operations NOC		
Y709	Unspecified early operations NOC		
Y714	Failed minimal access approach converted to open		
Y751	Laparoscopically assisted approach to abdominal cavity		
Y752	Laparoscopic approach to abdominal cavity NEC		
Y753	Robotic minimal access approach to abdominal cavity		
Y754	Hand assisted minimal access approach to abdominal cavity		
Y755	Laparoscopic ultrasonic approach to abdominal cavity		
Y758	Other specified minimal access to abdominal cavity		
Y759	Unspecified minimal access to abdominal cavity		
H122	Excision of lesion of colon NEC	2	Minor resection
H123	Destruction of lesion of colon NEC		
H128	Other specified extirpation of lesion of colon		
H129	Unspecified extirpation of lesion of colon		
H181	Open colonoscopy		
H188	Other specified open endoscopic operations on colon		
H189	Unspecified open endoscopic operations on colon		
H201	Fibreoptic endoscopic snare resection of lesion of colon		
H202	Fibreoptic endoscopic cauterisation of lesion of colon		

H203	Fibreoptic endoscopic laser destruction of lesion of colon		
H204	Fibreoptic endoscopic destruction of lesion of colon NEC		
H205	Fibreoptic endoscopic submucosal resection of lesion of colon		
H206	Fibreoptic endoscopic resection of lesion of colon NEC		
H207	Fibreoptic endoscopic mucosal resection of lesion of colon		
H208	Other specified endoscopic extirpation of lesion of colon		
H209	Unspecified endoscopic extirpation of lesion of colon		
H231	Endoscopic snare resection of lesion of lower bowel using fibreoptic sigmoidoscope		
H232	Endoscopic cauterisation of lesion of lower bowel using fibreoptic sigmoidoscope		
H233	Endoscopic laser destruction of lesion of lower bowel using fibreoptic sigmoidoscope		
H234	Endoscopic destruction of lesion of lower bowel using fibreoptic sigmoidoscope NEC		
H235	Endoscopic submucosal resection of lesion of lower bowel using fibreoptic sigmoidoscope		
H236	Endoscopic resection of lesion of lower bowel using fibreoptic sigmoidoscope NEC		
H237	Endoscopic mucosal resection of lesion of lower bowel using fibreoptic sigmoidoscope		
H238	Other specified endoscopic extirpation of lesion of lower bowel using fibreoptic sigmoidoscope		
H239	Unspecified endoscopic extirpation of lesion of lower bowel using fibreoptic sigmoidoscope		
H261	Endoscopic snare resection of lesion of sigmoid colon using rigid sigmoidoscope		
H262	Endoscopic cauterisation of lesion of sigmoid colon using rigid sigmoidoscope		
H263	Endoscopic laser destruction of lesion of sigmoid colon using rigid sigmoidoscope		
H264	Endoscopic cryotherapy to lesion of sigmoid colon using rigid sigmoidoscope		
H265	Endoscopic destruction of lesion of sigmoid colon using rigid sigmoidoscope NEC		
H266	Endoscopic submucosal resection of lesion of sigmoid colon using rigid sigmoidoscope		
H267	Endoscopic resection of lesion of sigmoid colon using rigid sigmoidoscope NEC		
H268	Other specified endoscopic extirpation of lesion of sigmoid colon using rigid sigmoidoscope		
H269	Unspecified endoscopic extirpation of lesion of sigmoid colon using rigid sigmoidoscope		
H371	Endoscopic mucosal resection of lesion of sigmoid colon using rigid sigmoidoscope		
H378	Other specified other endoscopic extirpation of lesion of sigmoid colon using rigid sigmoidoscope		
H379	Unspecified other endoscopic extirpation of lesion of sigmoid colon using rigid sigmoidoscope		
H401	Trans-sphincteric excision of mucosa of rectum		
H402	Trans-sphincteric excision of lesion of rectum		
H403	Trans-sphincteric destruction of lesion of rectum		
H408	Other specified operations on rectum through anal sphincter		
H409	Unspecified operations on rectum through anal sphincter		

H412	Peranal excision of lesion of rectum		
H413	Peranal destruction of lesion of rectum		
H418	Other specified other operations on rectum through anus		
H419	Unspecified other operations on rectum through anus		
H468	Other specified other operations on rectum		
H469	Unspecified other operations on rectum		
H48	Excision of lesion of anus		
H481	Excision of polyp of anus		
H481	Excision of polyp of anus		
H488	Other specified excision of lesion of anus		
H489	Unspecified excision of lesion of anus		
H49	Destruction of lesion of anus		
H498	Other specified destruction of lesion of anus		
H499	Unspecified destruction of lesion of anus		
H131	Bypass of colon by anastomosis of ileum to colon	3	Bypass
H132	Bypass of colon by anastomosis of caecum to sigmoid colon		
H133	Bypass of colon by anastomosis of transverse colon to sigmoid colon		
H134	Bypass of colon by anastomosis of transverse colon to rectum		
H135	Bypass of colon by anastomosis of colon to rectum NEC		
H138	Other specified bypass of colon		
H139	Unspecified bypass of colon		
G741	Creation of continent ileostomy	4	Stoma
G742	Creation of temporary ileostomy		
G743	Creation of defunctioning ileostomy		
G748	Other specified creation of artificial opening into ileum		
G749	Unspecified creation of artificial opening into ileum		
H141	Tube caecostomy		
H144	Appendicocaecostomy		
H148	Other specified exteriorisation of caecum		
H149	Unspecified exteriorisation of caecum		
H151	Loop colostomy		
H152	End colostomy		
H157	Percutaneous endoscopic sigmoid colostomy		
H158	Other specified other exteriorisation of colon		
H159	Unspecified other exteriorisation of colon		
H214	Fibreoptic endoscopic insertion of expanding metal stent into colon	5	Stent
H243	Endoscopic insertion of tubal prosthesis into lower bowel using fibreoptic sigmoidoscope		
H244	Endoscopic insertion of expanding metal stent into lower bowel using fibreoptic sigmoidoscope		
H273	Endoscopic insertion of tubal prosthesis into sigmoid colon using rigid sigmoidoscope		
H274	Endoscopic insertion of expanding metal stent into sigmoid colon using rigid sigmoidoscope		
H314	Image guided insertion of colorectal stent		

Y141	Insertion of expanding covered metal stent into organ NOC		
Y142	Insertion of expanding metal stent into organ NOC		
Y143	Insertion of metal stent into organ NOC		
Y144	Insertion of plastic stent into organ NOC		
Y145	Insertion of stent graft into organ NOC		
Y148	Other specified placement of stent in organ NOC		
Y149	Unspecified placement of stent in organ NOC		
Y155	Conversion to stent in organ NOC		

Method of admission to hospital for primary procedure – ADMITMETH

HES code	HES description	CORECT-R code	CORECT-R description
11	Waiting list	0	Elective
12	Booked		
13	Planned		
31	Admitted ante-partum		
32	Admitted post-partum		
81	Transfer of admitted patient from other hospital provider other than in emergency		
82	Birth of a baby		
83	Baby born outside the healthcare provider		
2C	Baby born at home as intended		
21	Accident and emergency or dental casualty	1	Emergency
22	General practitioner: after request for immediate admission		
23	Bed bureau		
24	Consultant clinic		
25	Admission via mental health crisis resolution team		
2A	Accident and emergency department of another provider		
2B	Transfer of an admitted patient from another hospital provider		
2D	Other emergency admission		
28	Other means		

ADDITIONAL INFORMATION WHERE PRIMARY PROCEDURE IS A MAJOR RESECTION

Procedure group – PROCNAME

Data item:	Stoma opened at major resection
Field name:	PROCNAME
Format:	Number
Description of field content:	1 - Total excision of colon & rectum 2 - Total excision of colon 3 - Subtotal excision of colon 4 - Extended right hemicolectomy 5 - Right hemicolectomy 6 - Transverse colectomy 7 - Left hemicolectomy 8 - Sigmoid colectomy 9 - Other colectomy 10 - APE 11 - Anterior resection 12 - Hartmann's procedure 13 - Pelvic exenteration 14 - Other rectal
Valid event date range:	April 1997 – December 2017
Data source:	HES
Generate by:	UK Colorectal Cancer Intelligence Hub
Associated variables:	Primary procedure - PROCTYPE

Rules for derivation

The variable PROCNAME identifies the type of major resection for individuals who underwent a major resection as their primary procedure. The procedures were grouped according to their OPCS4 codes.

Stoma opened during major surgical resection – STOMA

OPCS4 Code	OPCS4 Description	CORECT-R code	CORECT-R description
H041	Panproctocolectomy and ileostomy	1	Stoma opened
H052	Total colectomy and ileostomy and creation of rectal fistula HFQ		
H053	Total colectomy and ileostomy NEC		
H064	Extended right hemicolectomy and ileostomy HFQ		
H074	Right hemicolectomy and ileostomy HFQ		
H084	Transverse colectomy and ileostomy HFQ		
H085	Transverse colectomy and exteriorisation of bowel NEC		
H094	Left hemicolectomy and ileostomy HFQ		
H095	Left hemicolectomy and exteriorisation of bowel NEC		
H104	Sigmoid colectomy and ileostomy HFQ		
H105	Sigmoid colectomy and exteriorisation of bowel NEC		
H114	Colectomy and ileostomy NEC		
H115	Colectomy and exteriorisation of bowel NEC		
H331	Abdominoperineal excision of rectum and end colostomy		
H335	Rectosigmoidectomy and closure of rectal stump and exteriorisation of bowel		
H336	Anterior resection of rectum and exteriorisation of bowel		
H337	Perineal resection of rectum HFQ		
X141	Total exenteration of pelvis		
X142	Anterior exenteration of pelvis		
X143	Posterior exenteration of pelvis		
X148	Other specified clearance of pelvis		
X149	Unspecified clearance of pelvis		
G741*	Creation of continent ileostomy		
G742*	Creation of temporary ileostomy		
G743*	Creation of defunctioning ileostomy		
G748*	Other specified creation of artificial opening into ileum		
G749*	Unspecified creation of artificial opening into ileum		
H141*	Tube caecostomy		
H144*	Appendicocaecostomy		
H148*	Other specified exteriorisation of caecum		
H149*	Unspecified exteriorisation of caecum		
H151*	Loop colostomy		
H152*	End colostomy		
H157*	Percutaneous endoscopic sigmoid colostomy		
H158*	Other specified other exteriorisation of colon		
H159*	Unspecified other exteriorisation of colon		

Stoma open at 18 months following creation – STOMA18

OPCS4 Code	OPCS4 Description	CORECT-R code	CORECT-R description
G753	Closure of ileostomy	0	Closure of stoma
H143	Closure of caecostomy		
H154	Closure of colostomy		

Approach to major surgical resection – LAP

OPCS4 Code	OPCS4 Description	CORECT-R code	CORECT-R description
Y714	Failed minimal access approach converted to open	1	Laparoscopic

Y751	Laparoscopically assisted approach to abdominal cavity		
Y752	Laparoscopic approach to abdominal cavity NEC		
Y753	Robotic minimal access approach to abdominal cavity		
Y754	Hand assisted minimal access approach to abdominal cavity		
Y755	Laparoscopic ultrasonic approach to abdominal cavity		
Y758	Other specified minimal access to abdominal cavity		
Y759	Unspecified minimal access to abdominal cavity		

Procedures converted from laparoscopic to open – CONVERT

OPCS4 code	OPCS4 description	CORECT-R code	CORECT-R description
Y751	Laparoscopically assisted approach to abdominal cavity	0	Not converted
Y752	Laparoscopic approach to abdominal cavity NEC		
Y753	Robotic minimal access approach to abdominal cavity		
Y754	Hand assisted minimal access approach to abdominal cavity		
Y755	Laparoscopic ultrasonic approach to abdominal cavity		
Y758	Other specified minimal access to abdominal cavity		
Y759	Unspecified minimal access to abdominal cavity		
Y714	Failed minimal access approach converted to open	1	Converted

Type of laparoscopic procedure – APPTYPE

OPCS4 code	OPCS4 description	CORECT-R code	CORECT-R description
Y714	Failed minimal access approach converted to open	0	Standard
Y751	Laparoscopically assisted approach to abdominal cavity		
Y752	Laparoscopic approach to abdominal cavity NEC		
Y754	Hand assisted minimal access approach to abdominal cavity		
Y755	Laparoscopic ultrasonic approach to abdominal cavity		
Y758	Other specified minimal access to abdominal cavity		
Y759	Unspecified minimal access to abdominal cavity		
Y753	Robotic minimal access approach to abdominal cavity	1	Robotic

National Anal Cancer Dataset (variables included in the anal table only)

TUMOUR INFORMATION

Morphology group for anal cancers – USEMORPH_ANAL

ICD02 code	ICD02 Description	CORECT-R code	CORECT-R description		
80703	Squamous cell carcinoma, NOS	1	Squamous cell carcinoma		
80713	Squamous cell carcinoma, keratinizing, NOS				
80723	Squamous cell carcinoma, large cell, non-keratinising, NOS				
80705	Microinvasive squamous cell carcinoma, nos				
80733	Squamous cell carcinoma, small cell, nonkeratinizing				
81233	Basaloid carcinoma	2	Basaloid and cloacogenic carcinoma		
81243	Cloacogenic carcinoma				
81403	Adenocarcinoma, NOS	3	Adenocarcinoma		
84803	Mucinous adenocarcinoma				
82633	Adenocarcinoma in tubulovillous adenoma				
84813	Mucin-producing adenocarcinoma				
85603	Adenosquamous carcinoma				
84903	Signet ring cell carcinoma				
82613	Adenocarcinoma in villous adenoma				
82103	Adenocarcinoma in adenomatous polyp				
82623	Villous adenocarcinoma				
82603	Papillary adenocarcinoma, NOS				
82113	Tubular adenocarcinoma				
81409	Adenocarcinoma, NOS unknown if primary or metastatic				
81405	Microinvasive adenocarcinoma, nos				
80833	Basaloid squamous cell carcinoma			4	Other specified carcinoma
80413	Small cell carcinoma, NOS				
82463	Neuroendocrine carcinoma, NOS				
80943	Basosquamous carcinoma				
89363	Gastrointestinal stromal sarcoma				
80453	Combined small cell carcinoma				
82453	Adenocarcinoid tumor				
80103	Carcinoma, NOS	5	Unspecified carcinoma		
80203	Carcinoma, undifferentiated, NOS				
80123	Large cell carcinoma, NOS				
80109	Carcinomatosis				
80213	Carcinoma, anaplastic, NOS				
87203	Malignant melanoma, NOS	6	Melanoma		
87213	Melanoma nodular				
87303	Amelanotic melanoma				
87463	Mucosal lentiginous melanoma				
88003	Sarcoma, NOS	7	Other specified cancer		
88013	Spindle cell sarcoma				

91203	Haemangiosarcoma		
80453	Combined small cell carcinoma		
82453	Adenocarcinoid tumor		
88033	Small cell sarcoma		
80003	Neoplasm, malignant	9	Unspecified cancer

Abdominoperineal resection – APE

OPCS code	Description	CORECT-R code	CORECT-R description
H331	Abdominoperineal excision of rectum and end colostomy	1	Abdominoperineal resection
H337	Perineal resection of rectum HFQ		