Supplementary data

Table 14. ICD-10 codes for the Charlson Co-morbidity Index

			1400
Myocardial infarction		Other rheumatoid arthritis	M06.x
Acute myocardial infarction	I21	Giant cell arteritis with polymyalgia rheumatica	M31.5 M32.x
Subsequent myocardial infarction	122	Systemic lupus erythematosus	
Old myocardial infarction	1252	Dermatopolymyositis Systemic sclerosis	M33.x M34.x
Congestive cardiac failure	1232	Other overlap syndromes	M35.1
Hypertensive heart disease with (congestive) heart failure	l11.0	Polymyalgia rheumatica	M35.3
Hypertensive heart and renal disease with (congestive)	111.0	Dermato(poly)myositis in neoplastic disease	M36.0
heart failure	I13.0	Peptic ulcer disease	W.00.W
Hypertensive heart and renal disease with both	110.0	Gastric ulcer	K25.x
(congestive) heart failure and renal failure	l13.2	Duodenal ulcer	K26.x
Ischaemic cardiomyopathy	125.5	Peptic ulcer, site unspecified	K27.x
Cardiomyopathy in diseases classified elsewhere	143	Gastrojejunal ulcer	K28.x
Heart failure	150	Liver disease	INZU.X
Cardiomyopathy	142	Chronic viral hepatitis	B18.x
Peripheral vascular disease		Alcoholic fatty liver	K70.0
Aortic aneurysm and dissection	I71.x	Alcoholic hepatitis	K70.1
Thromboangiitis obliterans [Buerger]	173.1	Alcoholic fibrosis and sclerosis of liver	K70.2
Other specified peripheral vascular diseases	173.8	Alcoholic cirrhosis of liver	K70.3
Peripheral vascular disease, unspecified	173.9	Alcoholic liver disease, unspecified	K70.9
Stricture of artery	177.1	Toxic liver disease with chronic persistent hepatitis	K71.3
Aneurysm of aorta in diseases classified elsewhere	179.0	Toxic liver disease with chronic lobular hepatitis	K71.4
Peripheral angiopathy in diseases classified elsewhere	179.2	Toxic liver disease with chronic active hepatitis	K71.5
Chronic vascular disorders of intestine	K55.1	Toxic liver disease with fibrosis and cirrhosis of liver	K71.7
Other vascular disorders of intestine	K55.8	Chronic hepatitis, not elsewhere classified	K73.x
Vascular disorder of intestine, unspecified	K55.9	Fibrosis and cirrhosis of liver	K74.x
Presence of other cardiac and vascular implants		Fatty (change of) liver, not elsewhere classified	K76.0
and grafts	Z95.8	Central haemorrhagic necrosis of liver	K76.2
Presence of cardiac and vascular implant and graft,		Infarction of liver	K76.3
unspecified	Z95.9	Peliosis hepatis	K76.4
Cerebrovascular disease		Other specified diseases of liver	K76.8
Transient cerebral ischaemic attacks and related		Liver disease, unspecified	K76.9
syndromes	G45.x	Diabetes without chronic complication	
Vascular syndromes of brain in cerebrovascular diseases	G46.x	Type 1 diabetes mellitus with coma	E10.0
Transient retinal artery occlusion	H34.0	Type 1 diabetes mellitus with ketoacidosis	E10.1
Cerebrovascular diseases	160-	Type 1 diabetes mellitus without complications	E10.9
	169	Type 2 diabetes mellitus with coma	E11.0
Dementia		Type 2 diabetes mellitus with ketoacidosis	E11.1
Dementia in Alzheimer disease	F00.x	Type 2 diabetes mellitus without complications	E11.9
Vascular dementia	F01.x	Malnutrition-related diabetes mellitus with coma	E12.0
Dementia in other diseases classified elsewhere	F02.x	Malnutrition-related diabetes mellitus with ketoacidosis	E12.1
Unspecified dementia	F03.x	Malnutrition-related diabetes mellitus without complications	
Delirium superimposed on dementia	F05.1	Other specified diabetes mellitus with coma	E13.0
Alzheimer disease	G30.x	Other specified diabetes mellitus with ketoacidosis	E13.1
Senile degeneration of brain, not elsewhere classified	G31.1	Other specified diabetes mellitus without complications	E13.9
Chronic pulmonary disease	107.0	Unspecified diabetes mellitus with coma	E14.0
Other specified pulmonary heart diseases	127.8	Unspecified diabetes mellitus with ketoacidosis	E14.1
Chronic lower respiratory disease	J40- J47	Unspecified diabetes mellitus without complications	E14.9
Cookyaykay nagymaganiagia		Diabetes with end organ damage	E40.0
Coalworker pneumoconiosis	J60.x J61.x	Type 1 diabetes mellitus with renal complications	E10.2
Pneumoconiosis due to asbestos and other mineral fibres	J61.x J62.x	Type 1 diabetes mellitus with ophthalmic complications	E10.3
Pneumoconiosis due to dust containing silica Pneumoconiosis due to other inorganic dusts	J62.x J63.x	Type 1 diabetes mellitus with neurological complications	E10.4
Unspecified pneumoconiosis	J64.x	Type 1 diabetes mellitus with peripheral circulatory	E40 E
Pneumoconiosis associated with tuberculosis	J65.x	complications	E10.5
Airway disease due to specific organic dust	J66.x	Type 1 diabetes mellitus with multiple complications	E10.7
Hypersensitivity pneumonitis due to organic dust	J67.x	Type 2 diabetes mellitus with renal complications	E11.2
Chronic respiratory conditions due to chemicals, gases,	307.X	Type 2 diabetes mellitus with ophthalmic complications Type 2 diabetes mellitus with neurological complications	E11.3
fumes and vapours	J68.4	71	E11.4
Chronic and other pulmonary manifestations due to radiation		Type 2 diabetes mellitus with peripheral circulatory	E11 E
Chronic drug-induced interstitial lung disorders	J70.1	complications Type 2 diabetes mellitus with multiple complications	E11.5 E11.7
Rheumatic disease	0.0.0	Malnutrition-related diabetes mellitus with renal	∟11./
Seropositive rheumatoid arthritis	M05.x	complications	E12.2
		oompiioationo	L 14.4

Malnutrition-related diabetes mellitus with ophthalmic complications	E12.3	Malignant neoplasms of male genital organs	C60- C63
Malnutrition-related diabetes mellitus with neurological complications	E12.4	Malignant neoplasms of urinary tract	C64- C68
	L12.4	Malianant name of an along the same of the	000
Malnutrition-related diabetes mellitus with peripheral circulatory complications	E12.5	Malignant neoplasms of eye, brain and other parts of the central nervous system	C69-
Malnutrition-related diabetes mellitus with multiple			C72
complications	E12.7	Malignant neoplasm of thyroid and other endocrine glands	C73-
Other specified diabetes mellitus with renal complications	E13.2	manghan noophaom or myrota and other or account grands	C75
	L10.2	Malianant nagalage of other and ill defined sites	
Other specified diabetes mellitus with ophthalmic	E40.0	Malignant neoplasm of other and ill-defined sites	C76.x
complications	E13.3	Lymphoma	
Other specified diabetes mellitus with neurological		Hodgkin lymphoma	C81.x
complications	E13.4	Follicular lymphoma	C82.x
Other specified diabetes mellitus with peripheral		Non-follicular lymphoma	C83.x
circulatory complications	E13.5	Mature T/NK-cell lymphomas	C84.x
	L13.5	, ,	
Other specified diabetes mellitus with multiple		Other and unspecified types of non-Hodgkin lymphoma	C85.x
complications	E13.7	Malignant immunoproliferative diseases	C88.x
Unspecified diabetes mellitus with renal complications	E14.2	Multiple myeloma and malignant plasma cell neoplasms	C90.x
Unspecified diabetes mellitus with ophthalmic		Leukaemia	
complications	E14.3	Lymphoid leukaemia	C91.x
Unspecified diabetes mellitus with neurological		Myeloid leukaemia	C92.x
•	T111	•	
complications	E14.4	Monocytic leukaemia	C93.x
Unspecified diabetes mellitus with peripheral circulatory		Other leukaemias of specified cell type	C94.x
complications	E14.5	Leukaemia of unspecified cell type	C95.x
Unspecified diabetes mellitus with multiple complications	E14.7	Other and unspecified malignant neoplasms of lymphoid,	
Hemiplegia		haematopoietic and related tissue	C96.x
Hereditary spastic paraplegia	G11.4	Malignant neoplasms of independent (primary) multiple	000.x
			007
Spastic diplegic cerebral palsy	G80.1	sites	C97.x
Spastic hemiplegic cerebral palsy	G80.2	Moderate or severe liver disease	
Hemiplegia	G81.x	Oesophageal varices with bleeding	185.0
Paraplegia and tetraplegia	G82.x	Oesophageal varices without bleeding	185.9
Diplegia of upper limbs	G83.0	Gastric varices	186.4
Moderate or severe renal disease	400.0	Oesophageal varices without bleeding in diseases	100. 1
	140.0		100.0
Hypertensive renal disease with renal failure	l12.0	classified elsewhere	198.2
Hypertensive heart and renal disease with renal failure	l13.1	Alcoholic hepatic failure	K70.4
Chronic nephritic syndrome	N03	Toxic liver disease with hepatic necrosis	K71.1
Unspecified nephritic syndrome: diffuse membranous		Chronic hepatic failure	K72.1
glomerulonephritis	N05.2	Hepatic failure, unspecified	K72.9
Unspecified nephritic syndrome: diffuse mesangial	1400.2	Hepatic veno-occlusive disease	K76.5
	NOT O		
proliferative glomerulonephritis	N05.3	Portal hypertension	K76.6
Unspecified nephritic syndrome: diffuse endocapillary		Hepatorenal syndrome	K76.7
proliferative glomerulonephritis	N05.4	Metastatic solid tumor	
Unspecified nephritic syndrome: diffuse mesangiocapillary		Secondary and unspecified malignant neoplasm of	
glomerulonephritis	N05.5	lymph nodes	C77.x
Unspecified nephritic syndrome: dense deposit disease	N05.6	Secondary malignant neoplasm of respiratory and	0
	1405.0	· · · · · · · · · · · · · · · · · · ·	070
Unspecified nephritic syndrome: diffuse crescentic		digestive organs	C78.x
glomerulonephritis	N05.7	Secondary malignant neoplasm of other and unspecified	
Chronic kidney disease stage 3	N183	sites	C79.x
Chronic kidney disease stage 4	N184	Malignant neoplasm, without specification of site	C80.x
Chronic kidney disease stage 5	N185	AIDS/HIV	
Unspecified kidney failure	N19.x	Human immunodeficiency virus [HIV] disease resulting	
Renal osteodystrophy	N25.0	in infectious and parasitic diseases	B20.x
, , ,		•	D20.X
Preparatory care for dialysis	Z49.0	Human immunodeficiency virus [HIV] disease resulting	
Extracorporeal dialysis	Z49.1	in malignant neoplasms	B21.x
Other dialysis	Z49.2	Human immunodeficiency virus [HIV] disease resulting	
Dependence on renal dialysis	Z99.2	in other specified diseases	B22.x
Any malignancy, including lymphoma and leukemia, except		Human immunodeficiency virus [HIV] disease resulting	
malignant neoplasm of skin		in other conditions	B23.x
	000		
Malignant neoplasms of lip, oral cavity and pharynx	C00-	Unspecified human immunodeficiency virus [HIV] disease	B24.x
	C14		
Malignant neoplasms of digestive organs	C15-		
- · ·	C26		
Malignant neoplasms of respiratory and intrathoracic	C30-		
	C39		
organs Malianant nearleanne of hone and articular cartilage			
Malignant neoplasms of bone and articular cartilage	C40-		
	C41		
Malignant neoplasms of mesothelial and soft tissue	C45-		
	C49		
Malignant neoplasm of breast	C50.x		
Malignant neoplasms of female genital organs	C51-		
manghant hoopidomo of fornalo gorillar organis	C58		
	000		

Table 15. ICD-10 codes for inpatient complications

Pulmonary embolism	
Pulmonary embolism	126
Myocardial infarction	
Acute myocardial infarction	l21
Subsequent myocardial infarction	122
Lower respiratory tract infection	
Viral pneumonia, not elsewhere classified	12
Pneumonia due to Streptococcus pneumoniae	J13
Pneumonia due to Haemophilus influenzae	J14
Bacterial pneumonia, not elsewhere classified	J15
Pneumonia due to other infectious organisms, not	
elsewhere classified	J16
Pneumonia, organism unspecified	J18
Unspecified acute lower respiratory infection	J22
Pyothorax	J86
Chronic obstructive pulmonary disease with acute lower	
respiratory infection	J440
Pneumonitis due to food and vomit	J690
Acute kidney injury	N147
Acute renal failure	N17
Urinary tract infection	NIAO
Acute tubulo-interstitial nephritis	N10
Acute cystitis	N300
Other cystitis	N308 N309
Cystitis, unspecified	N399
Urinary tract infection, site not specified Cerebrovascular event	14390
Subarachnoid haemorrhage	160
Intracerebral haemorrhage	160
Other nontraumatic intracranial haemorrhage	162
Cerebral infarction	163
Stroke, not specified as haemorrhage or infarction	164
Deep vein thrombosis	104
Phlebitis and thrombophlebitis of femoral vein	1801
Embolism and thrombosis of other specified veins	1828
Embolism and thrombosis of unspecified vein	1829
Phlebitis and thrombophlebitis of other deep vessels of	1023
lower extremities	1802
Phlebitis and thrombophlebitis of lower extremities,	1002
unspecified	1803

Table 16. OPCS-4 codes for specific procedures

Subacromial decompression	
Subacromial decompression	O291
Rotator cuff repair	
Plastic repair of rotator cuff of shoulder	T791
Revisional repair of rotator cuff	T793
Plastic repair of multiple tears of rotator cuff of shoulder	T794
Revisional repair of multiple tears of rotator cuff of shoulder	T795

Table 17. General re-operation codes

Subacromial decompression

Tatal audicion of human	TCO4
Total excision of bursa	T621
Excision of bursa Exploration of bursa	T622 T626
Exploration of bursa Exploration of bursa	T628
Unspecified	T629
Endoscopic decompression of joint	W844
Rotator cuff repair	*****
Multiple transfer of tendon to tendon	T641
Transfer of tendon to tendon NEC	T642
Multiple insertion of tendons into bone	T643
Other specified	T648
Unspecified	T649
Primary repair of tendon	T67
Secondary repair of tendon	T68
Relocation	100
Primary open reduction of traumatic dislocation of	
joint and skeletal traction NEC	W652
Other specified	W658
Unspecified	W689
Primary closed reduction of traumatic dislocation of	VV009
joint and skeletal traction NEC	W662
	W668
Other specified	
Unspecified	W669
Secondary open reduction of traumatic dislocation of	Mezo
joint and skeletal traction NEC	W672
Secondary open reduction of traumatic dislocation of joint NEC	MCZA
	W674
Other specified	W678
Unspecified	W679
Stabilisation Other stabilising appretions on isint	007
Other stabilising operations on joint	O27
Endoscopic repair of intra-articular ligament	W841
Endoscopic reattachment of intra-articular ligament	W842
Repair of capsule of joint for stabilisation of joint	W771
Transposition of muscle for stabilisation of joint	W772
Blocking operations on joint using prosthesis for	14/770
stabilisation of joint	W773
Blocking operations on joint using bone for stabilisation	141774
of joint	W774
Periarticular osteotomy for stabilisation of joint	W775
Transposition of ligament for stabilisation of joint	W777
Other specified	W778
Unspecified	W779
Prosthetic replacement of ligament	W72
Prosthetic reinforcement of ligament	W73
Other reconstruction of ligament	W74
Other open repair of ligament	W75
MUA and capsular release	1410.4.4
Manipulation of joint using traction NEC	W911
Manipulation of prosthetic joint NEC	W913
Other specified	W918
Unspecified	W919
Release of contracture of shoulder joint	W781
Limited release of contracture of capsule of joint	W784
External manipulation of organ NOC	Y421
Other specified	Y428
Unspecified	Y429
Synovectomy	
Total synovectomy	W691
Subtotal synovectomy	W692
Partial synovectomy	W693
Tenosynovectomy	T711
Fracture fixation	
Primary open reduction of fracture of long bone and	
fixation using rigid nail NEC	W192
fixation using rigid nail NEC Primary open reduction of fracture of long bone and	W192
fixation using rigid nail NEC	
fixation using rigid nail NEC Primary open reduction of fracture of long bone and	W192

Primary open reduction of fragment of bone and fixation using screw Primary open reduction of fragment of bone and fixation using screw Primary open reduction of fragment of bone and fixation using wire system W195 Unspecified W199 Unspecified W199 Primary open reduction of fracture of bone and extramedullary fixation Primary open reduction of fracture of bone w22 Secondary open reduction of fracture of bone w22 Closed reduction of fracture of long bone and fixation using screw W245 Closed reduction of fracture of bone and fixation w199 screw W245 Closed reduction of fracture of bone and fixation w199 screw W246 Closed reduction of fracture of bone and fixation w199 screw W247 Closed reduction of fracture of bone and fixation w199 screw W248 Closed reduction of fracture of bone and fixation w199 screw W249 Closed reduction of fracture of bone and fixation w199 screw W246 Closed reduction of fracture of bone and fixation w199 screw W247 Closed reduction of fracture of bone and external fixation W259 w260 Closed reduction of fracture of bone and external fixation W259 w260 Closed reduction of fracture of bone and external fixation W259 w260 Closed reduction of fracture of bone w260 closed reduction of fracture of bone w260 closed reduction of fracture dislocation of joint and skeletal traction HFC w261 closed reduction of fracture dislocation of joint and skeletal traction HFC w262 closed reduction of fracture dislocation of joint and skeletal traction HFC w263 closed reduction of fracture dislocation of joint and skeletal traction HFC w264 closed reduction of fracture dislocation of joint and skeletal traction HFC w265 closed reduction of fracture dislocation of joint and skeletal traction HFC w265 closed reduction of fracture dislocation of joint w265 closed reduction of fracture dislocation of joint and skeletal traction HFC w265 closed reduction of fracture dislocation of joint w265 closed reduction of fracture dislocation of joint w267 w267 closed reduction of fracture dislocation of joint w267 w267 closed r			
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Other specified O178		O175	
Unspecified O179		O178	
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Standard anatomy options	
Glenohumeral joint	Z813
Shoulder joint	Z814
Shoulder NEC	Z891
Anatomy options - fracture	
Head of humerus	Z691
Tuberosity of humerus	Z692
Neck of humerus	Z693
Glenohumeral joint	Z813
Shoulder joint	Z814
Shoulder NEC	Z891
Anatomy options - ASAD	
Acromioclavicular joint	Z812
Shoulder joint	Z814
Shoulder NEC	Z891