

**Supplementary Table S1:** Diagnostic groups, ICD-9 and ICD-10 disease and procedural codes.

Diagnostic Groups	Diagnosis and Codification		
	Diagnosis	ICD9	ICD10
Infections	Septicemia	038, 790.7	A39, A40, A41, A49, R78.81
	Meningitis	047, 094, 320–322, 324	A17, A87, G00, G03
	Encephalitis	063, 064, 052.0, 054.3, 058.2, 323	G04, G05, A86
	Pneumonia	480–488	J12–J18
	Upper respiratory tract infections	460–464, 470–478	J00–J06, J30–J39
	Bronchiolitis	466.1	J21
	Other respiratory infections	465.8, 465.9	J22
	Viral infections	050–075, 079.99	A08, B00–B34, B97
	Diarrhea	001–009, 787.91	A09, R19.7
	Urinary tract infections	595, 599	N30, N39
	Pyelonephritis	590	N10–N11, N13.6
	Cellulitis	376.01, 528.3, 681, 682, 684	L01–L08, H05
	Osteomyelitis *	730	M86
	Myocarditis \$	422, 429.0	I40, I41
	Abscess	475, 510, 513, 556, 566	J36, J85, K61
	Otitis Media	380–382	H65, H66, H70
	Toxic Shock Syndrome	040.82	A48
	Steven Johnson Syndrome	695.13, 695.14	L51.3, L51.4
	Miscellaneous	780.6, 996.67, 998.59	N45.3, R50.9, T81.4
	Diagnosis	ICD9	ICD10
Respiratory disorders	Chronic diseases of upper airway	470–478	J32–35, J37
	Asthma, Bronchitis	490–496	J40, J42, J45.901
	Pneumothorax, Other diseases of lung and respiratory system	510–519	J93, J95, J98
	Acute respiratory failure	518.81	J96
	Acute bronchospasm	519.11	J98.01
	Symptoms of respiratory system- apnea, dyspnea, stridor, cough	786.1, 786.2, 786.03, 786.0	R04, 06, 07, 09
	Foreign body in upper airways	933	T16–T17
	Diagnosis	ICD9	ICD10
Cardiovascular disorders	Hypertension	401	I10–I16
	Inflammatory pericardial diseases	420, 423	I30, I31, I32
	Cardiac dysrhythmias	427, 785	I44– I49, R00
	Kawasaki's disease	446.1	M30.3
	Venous thrombosis	453	I82
	Syncope	780.2	R42, R55
	Chest pain	786.5	R07.2, R07.8
	Congenital anomalies of heart	745–747	Q22–Q25
	Diagnosis	ICD9	ICD10
Gastrointestinal disorders	Supernumerary tooth	520.1	K00.1
	Dental caries, Chronic gingivitis	521.0, 523.1	K02, K05.1
	Aphthous ulcers	528.2	K12.0
	Gastroesophageal reflux	530.81	K21
	Gastritis	535	K29.0

	Crohn's disease, Ulcerative colitis, Irritable colon	555, 556	K50, K51, K58
	Non-infectious gastroenteritis and colitis	558	K52
	Constipation, Fecal impaction	564.0, 560.32	K59.0, K56.41
	Malabsorption	579	K90
	Other disorders of biliary tract	576	K87
	Vomiting	787.0	R11
	Abdominal pain	789.0	R10
	Foreign body in digestive tract	935–938	T18
	Mesenteric adenitis	289.2	I88.0
	Hematemesis, Malena	578	K92.0, K92.1
Genito-urinary disorders	Diagnosis	ICD9	ICD10
	Acute and Chronic glomerulonephritis	580, 582	N00–N03
	Renal failure	584	N17–N19
	Nephrotic syndrome	581	N04
	Renal colic	788.0	N20, N23
	Follicular cyst of ovary	620	N83.0
	Hematuria	N/A	R31
	Epididymo-orchitis	604	N45.3
Neurological disorders	Diagnosis	ICD9	ICD10
	Epilepsy	345	G40
	Migraine	346	G43
	Convulsions	780.3	R56
	Headache	339, 784.0	G44, R51
	Benign Intracranial Hypertension	348.2	G93.2
	Ataxia	334	G32.81, R27.0
	Transverse myelitis	341.2	G37.3
	Hemiplegia	342	G81
	Cerebral palsy	343	G80
Endocrine and Metabolic disorders	Diagnosis	ICD9	ICD10
	Diabetes Mellitus	250	E10
	Precocious puberty	259.1	E30.1
	Short stature	783.43	R62.52
	Hypothyroidism	243, 244	E03
	Acidosis, Alkalosis	276.2, 276.3	E87.2, E87.3
	Hypoglycemia	251.2	E16.1, E16.2
	Diagnosis	ICD9	ICD10
Musculoskeletal disorders	Juvenile Idiopathic Arthritis	714.3	M08
	Other nonspecific arthritis	716	M07, M13
	Torticollis	723.5	M43.6
	Synovitis	727.0	M65.9
	Tietze's syndrome	733.6	M94.0
	Myalgia	729.1	M79.1
	Diagnosis	ICD9	ICD10
Trauma (Surgical)	Skull and facial bone fractures	800–802	S02, S09
	Fracture of Upper Limb	810–819	S41–S43, S51, S52, S61, S62
	Fracture of Lower Limb	820–829	S71, S72, S81, S82,
	Dislocation	830–839	S73, S83, S91, S92

	Intracranial injury excluding skull fracture	851–854	S06.4 to S06.9
	Internal injury to chest, abdomen, pelvis	860–869	S20, S27, S29, S30, S39
	Open wound of head	873	S01
	Open wound of upper limb	880–884	S41
	Open wound of back, buttock, genitals, unspecified	876–879	S31
	Effects of foreign body entering through orifices	930–939	T15–T19
Surgical	Diagnosis	ICD9	ICD10
	Tonsillectomy without and with adenoidectomy	28.2, 28.3	0CTP, 0CTQ
	Myringoplasty	19.4	09Q7, 09Q8
	Squint surgery	15.1, 15.2, 15.3, 15.4	08BL, 08BM
	Incision of perianal abscess	49.01	0HB8, 0HB9
	Appendectomy	47.0, 47.11	0DTJ
	Hydrocele repair	61.2	0V96, 0V97
	Unilateral orchiectomy	62.3	0VPD
	Orchidopexy	62.5	0VQ9, 0VQB, 0VQC, 0VS9, 0VSB
	Circumcision	64.0	0VTT
	Open reduction and internal fixation of fracture	79.2, 79.3, 79.5, 79.6, 79.8	0PP, 0PQ, 0PS, 0QQ, 0QR, 0QS,
	Excision and division of bones, other operations on bone	77, 78	0QB
	Arthroscopy	80.2	0SQC4ZZ, 0SQD4ZZ
	Repair of cruciate ligaments	81.45	0SC4ZX, 0SBD4ZX
	Inguinal hernia repair	53.0, 53.1	0YQ5, 0YQ6,
	Dental extraction	23.1	0CDW, 0CDX
	Endoscopy	45.11, 45.21, 45.23, 45.24	0DJ0, 0DJ6, 0DJD
Skin and Subcutaneous disorders	Diagnosis	ICD9	ICD10
	Hemangioma	228	D18
	Atopic dermatitis	691–693	L20–L22
	Urticaria	708.1, 708.9	L50.1, L50.9
Mental Health disorders	Diagnosis	ICD9	ICD10
	Substance abuse- alcohol, cannabis, opiates	305.0, 305.2, 305.5	F10.12, F11.1, F12.1
	Psychosis	298	F23, F29
	Anorexia nervosa	307	F50.0
	Suicidal ideation	E950, E956	R45.851
Hematological and Immune disorders	Anxiety disorders	300.0	F41, F42, F43
	Diagnosis	ICD9	ICD10
	Nutritional anemias	280–281	D50–D53
	Hemolytic anemias	282–283	D55–D59
	Immune thrombocytopenic purpura	287.31	D69.3
Allergy and Toxins	Hereditary hypogammaglobulinemia	279.00	D80.0
	Diagnosis	ICD9	ICD10
	Allergic purpura	287.0	D69.0
	Allergic urticaria	708.0	L50.0

	Poisoning by drugs, medicinal and biological substances	960–979	T36–T50
	Toxic effects of non-medicinal substances	980.0	T51–T65
	Anaphylactic reactions	995	T78.0
Obstetric/Pregnancy and Childbirth	Diagnosis	ICD9	ICD10
	Abortion	632, 637	O03
	Preterm labor	644	O60
	Normal labor	650	O80
	Forceps delivery	669.5	O66.5
Eye disorders	Diagnosis	ICD9	ICD10
	Strabismus	378	H49, H50
	Papilledema, not specified	377.0	H47.1
	Diplopia	368.2	H53.2
	Nystagmus	379.5	H55
Miscellaneous disorders	Diagnosis	ICD9	ICD10
	Observation and evaluation for suspected condition not found	V71	Z01
	Special investigation and examinations	V72	Z02
	Medical observation condition ruled out	N/A	Z03
	Examination and observation for other reasons	N/A	Z04
Nonsurgical trauma	Diagnosis	ICD9	ICD10
	Concussion	850	S06.0, S09.9,
	Sprains and Strains	840–848	S43.4, S49.8, S53.4, S59.1, S63.5–S63.9, S73.1, S79.9, S83.3–S83.9, S93.4, S99.9,
	Contusion with intact skin	920–924	S20, S30, S40, S50, S60, S70, S80, S90
	Burns medically managed	942–946	T20–T25
	Unspecified injury	959	T14
	Child abuse	995.5	T74

“Nonsurgical trauma” corresponds with “Trauma” in Table 1 and “Surgical trauma” is included in “Surgical” category in Table 1.