

Supplemental Table

Rank	Clinical diagnosis (Disease code)	ICD-10 codes	N	%	Clinical and procedural characteristics, %/median, (rank)							
					Age ≥ 65	Comorbid Mental	Deep Coma	Ambulance	Tertiary	Surgery	LOS	Mortality
1	Pneumonia, acute bronchitis, acute bronchiolitis (040080)	A370, A378, A379, A481, B012, B052, B371, B59, J13, J14, J15*, J16*, J17*, J18*, J20*, J21*, J22, J69*	117 649	10.2	48.7 (57)	1.5 (53)	2.2 (23)	19.3 (53)	2.2 (43)	5.7 (82)	9.0 (62)	7.9 (29)
2	Stroke (010060)	G45*, G46*, I63*, I65*, I66*, I675, I679, I693, I978	63 931	5.5	77.8 (11)	1.5 (53)	4.0 (14)	44.1 (21)	8.0 (21)	8.0 (77)	17.0 (30)	5.2 (35)
3	Heart failure (050130)	I50*	32 993	2.8	86.0 (4)	1.3 (60)	1.6 (26)	34.3 (27)	9.3 (19)	11.5 (67)	18.0 (27)	11.1 (24)
4	Intestinal obstruction without hernia (060210)	K560, K562, K563, K564, K565, K566, K567, K913	28 701	2.5	64.3 (33)	1.9 (40)	0.2 (68)	18.1 (59)	2.0 (48)	19.3 (57)	11.0 (51)	2.4 (48)
5	Fracture of proximal femur (160800)	M2435, M2445, S7200, S7210, S7220, S7230, S7270, S7280, S7290, S730	25 905	2.2	90.6 (1)	3.7 (9)	0.1 (75)	49.5 (14)	1.5 (58)	91.0 (5)	30.0 (2)	1.4 (58)
6	Viral enteritis (150010)	A08*, A09	24 920	2.2	23.4 (80)	0.9 (73)	0.1 (75)	14.9 (67)	0.3 (87)	0.8 (95)	5.0 (89)	0.2 (79)
7	Asthma (040100)	J45*, J46	23 858	2.1	12.0 (87)	0.8 (76)	0.4 (52)	9.5 (85)	1.2 (64)	0.5 (97)	6.0 (82)	0.3 (74)
8	Angina pectoris, chronic ischemic heart disease (050050)	I20*, I25*	20 775	1.8	68.2 (23)	0.9 (73)	0.4 (52)	31.9 (31)	7.7 (22)	43.7 (29)	7.0 (78)	0.8 (64)
9	Disorder associated with shortened gestation period or low birth weight (140010)	P00*, P01*, P02*, P03*, P04*, P05*, P07*, P08*, P10*, P11*, P12*, P13*, P15*, P20*, P21*, P22*, P23*, P24*, P25*, P26*, P27*, P28*, P29*, P35*, P36*, P37*, P38, P39*, P50*, P51*, P52*, P53, P54*, P55*, P56*, P57*, P58*, P590, P591, P592, P593, P598, P599, P60, P61*, P70*, P71*, P72*, P74*, P75, P76*, P77, P780, P781, P782, P783, P789, P80*, P81*, P83*, P90, P91*, P92*, P93, P94*, P95, P96*	20 540	1.8	0.0 (95)	0.0 (98)	0.4 (52)	9.4 (86)	0.0 (97)	10.5 (71)	8.0 (70)	0.5 (69)
10	Renal infection (110310)	N10, N151, N390	19 853	1.7	63.7 (34)	1.7 (44)	1.1 (32)	22.5 (47)	1.3 (63)	6.7 (80)	10.0 (55)	1.5 (56)
11	Gastroduodenal ulcer, gastric diverticulum, pyloric stenosis (060140)	K25*, K26*, K311, K312, K314	19 387	1.7	53.5 (52)	1.6 (47)	0.4 (52)	37.2 (25)	6.6 (26)	62.1 (17)	11.0 (51)	1.8 (55)
12	Chronic nephritic syndrome/chronic interstitial nephritis/chronic renal failure (110280)	I120, I129, N02*, N03*, N05*, N06*, N07*, N08*, N11*, N12, N14*, N18*, N391, N392	19 295	1.7	67.3 (27)	1.4 (58)	1.0 (33)	18.7 (55)	3.0 (37)	31.2 (43)	16.0 (34)	6.8 (33)
13	Appendicitis (060150)	K35*, K36, K37, K38*	18 566	1.6	11.9 (88)	0.8 (76)	0.0 (82)	9.1 (88)	1.5 (58)	75.4 (10)	6.0 (82)	0.0 (85)
14	Bile duct (intra/extraha hepatic) lithiasis (060340)	K803, K804, K805, K830, K831, K832, K833, K834, K838, K839, K915	17 869	1.5	75.6 (13)	1.1 (68)	0.3 (60)	16.9 (64)	2.3 (42)	68.3 (14)	14.0 (44)	2.9 (43)
15	Inflammation of oesophagus, stomach, duodenum and other intestines (other benign diseases) (060130)	B054, I880, K20, K21*, K220, K221, K222, K223, K224, K225, K226, K228, K229, K23*, K27*, K28*, K29*, K30, K310, K313, K315, K316, K318, K52*, K58*, K627, K633, K634, K638, K639, K90*, K910, K911, K912, K914, K92*, K93*	17 715	1.5	60.8 (47)	2.3 (28)	0.5 (50)	25.9 (42)	4.0 (33)	31.8 (42)	9.0 (62)	2.3 (49)
16	Skull and intracranial injury (160100)	S000, S007, S008, S009, S010, S017, S018, S019, S020*, S021*, S06*, S071, S079, S080, S089, S090, S091, S097	17 372	1.5	57.9 (49)	2.6 (22)	8.1 (9)	63.9 (6)	18.0 (8)	44.4 (28)	8.0 (70)	5.8 (34)
17	Nontraumatic intracranial haematoma (excluding nontraumatic subdural haematoma) (010040)	I61*, I629, I680, Q280, Q281, Q282, Q283	16 389	1.4	62.2 (42)	1.1 (68)	19.6 (3)	70.0 (3)	21.8 (3)	22.3 (55)	23.0 (11)	15.6 (21)

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Rank	Clinical diagnosis (Disease code)	ICD-10 codes	N	%	Clinical and procedural characteristics, %/median, (rank)							
					Age ≥ 65	Comorbid Mental	Deep Coma	Ambulance	Tertiary	Surgery	LOS	Mortality
18	Acute myocardial infarction, recurrent myocardial infarction (050030)	I21*, I22*, I24*	15 812	1.4	63.6 (35)	0.8 (76)	3.0 (19)	56.5 (8)	21.5 (4)	85.2 (6)	15.0 (38)	7.9 (29)
19	Benign disease of small and large intestine (including benign tumour) (060100)	D12*, D133, D191, D197, D199, D201, D372, D373, D374, D375, K57*, K620, K621, K635	13 657	1.2	43.6 (64)	0.7 (82)	0.0 (82)	7.9 (90)	1.1 (65)	45.9 (27)	7.0 (78)	0.3 (74)
20	Malignant pulmonary tumour (040040)	C33, C34*, C780, D021, D022, D024	13 327	1.2	75.3 (14)	2.3 (28)	0.8 (38)	19.5 (52)	1.4 (60)	10.9 (69)	21.0 (20)	40.5 (4)
21	Epilepsy (010230)	G40*, G41*	12 668	1.1	34.6 (70)	3.3 (12)	12.7 (5)	68.6 (4)	10.4 (15)	2.3 (88)	5.0 (89)	0.9 (62)
22	Vestibular dysfunction (030400)	H810, H811, H812, H813, H818, H819	12 589	1.1	56.8 (51)	1.2 (66)	0.0 (82)	48.3 (15)	0.4 (86)	0.3 (99)	5.0 (89)	0.0 (85)
23	Hydrops of gallbladder, cholecystitis (060335)	D135, K800, K801, K81*, K820, K821, K822, K823, K824, K828, K829, K835, K870	11 924	1.0	63.2 (39)	1.5 (53)	0.3 (60)	18.2 (58)	2.2 (43)	55.5 (22)	15.0 (38)	1.5 (56)
24	Malignant gastric tumour (060020)	C16*, D002	11 210	1.0	73.7 (16)	1.6 (47)	0.4 (52)	15.4 (66)	1.1 (65)	43.4 (30)	23.0 (11)	29.2 (7)
25	Blood poisoning (180010)	A021, A327, A391, A392, A393, A394, A395, A398, A399, A40*, A41*, B007, B250, B252, B376, B377, B387, B393, B407, B417, B427, B447, B464	10 923	0.9	67.4 (26)	2.1 (31)	6.2 (11)	40.8 (23)	12.1 (12)	29.7 (46)	17.0 (30)	25.9 (10)
26	Acute pyoderma (080011)	A46, L00, L01*, L020, L021, L022, L024, L028, L029, L03*, L08*	10 547	0.9	49.7 (55)	1.1 (68)	0.2 (68)	9.3 (87)	0.7 (75)	13.5 (63)	10.0 (55)	0.5 (69)
27	Upper respiratory tract inflammation (030270)	B302, J00, J02*, J06*, J31*	10 124	0.9	6.4 (90)	0.3 (93)	0.2 (68)	7.9 (90)	0.1 (91)	0.3 (99)	5.0 (89)	0.0 (85)
28	Impairment from fracture of thoracic or lumbar vertebra or lower (including thoracic/lumbar spinal cord injury) (160690)	S220*, S221*, S230, S231, S232, S233, S240, S241, S242, S245, S320*, S330, S331, S340, S341, S342, S343, S344, S345, T08*	9 547	0.8	82.9 (8)	2.7 (19)	0.1 (75)	45.3 (19)	2.4 (39)	8.2 (76)	26.0 (6)	0.3 (74)
29	Cirrhosis (including biliary cirrhosis) (060300)	I81, I820, I850, I859, I864, I982, K717, K721, K729, K740, K741, K742, K743, K744, K745, K746, K765, K766	9 189	0.8	61.7 (44)	2.7 (19)	3.3 (17)	33.4 (28)	6.2 (27)	39.5 (33)	17.0 (30)	19.4 (17)
30	Malignant tumour of liver/intrahepatic bile duct (including secondary tumour) (060050)	C22*, C787, D015, D376	8 854	0.8	74.5 (15)	1.5 (53)	1.0 (33)	18.0 (60)	1.6 (55)	31.2 (43)	17.0 (30)	42.9 (3)
31	Acute tonsillitis, acute laryngopharyngitis (040060)	A691, J03*, J04*, J05*, J390, J391, J392, J393, J399	8 795	0.8	6.3 (91)	0.5 (87)	0.1 (75)	5.6 (93)	0.5 (80)	2.7 (87)	5.0 (89)	0.1 (82)
32	Pneumothorax (040200)	J93*	8 764	0.8	27.4 (77)	0.6 (85)	0.3 (60)	14.6 (68)	2.2 (43)	37.3 (37)	9.0 (62)	1.3 (59)
33	Malignant tumour of colon (ascending to sigmoid colon) (060035)	C18*, C260, C269, C775, C785, D010	8 409	0.7	71.6 (19)	1.5 (53)	0.3 (60)	12.7 (77)	1.4 (60)	62.2 (16)	24.0 (9)	17.2 (18)
34	Dehydration (100380)	E86	8 380	0.7	61.5 (45)	3.2 (13)	1.5 (29)	30.2 (35)	1.6 (55)	2.1 (89)	6.0 (82)	2.6 (47)
35	Tachyarrhythmia (050070)	I456, I47*, I48, I490, I491, I492, I493, I494, I498	7 779	0.7	65.5 (30)	1.4 (58)	2.5 (22)	33.3 (29)	6.7 (25)	21.6 (56)	9.0 (62)	2.2 (51)
36	Bradyarrhythmia (050210)	I440, I441, I442, I443, I444, I445, I446, I447, I450, I451, I452, I453, I454, I455, I458, I459, I46*, I495, T821	7 331	0.6	85.8 (5)	1.8 (43)	16.0 (4)	47.0 (17)	16.3 (9)	62.3 (15)	13.0 (50)	17.1 (19)
37	Premature labour, threatened premature labour (120170)	O470, O471, O479, O60	7 161	0.6	0.0 (95)	0.5 (87)	0.0 (82)	13.7 (71)	0.0 (97)	17.9 (59)	16.0 (34)	0.0 (85)
38	Other infectious disease	A060, A061, A062, A063, A067, A068, A069, A07*,	6 959	0.6	22.5 (82)	0.3 (93)	0.8 (38)	11.6 (82)	1.9 (51)	9.3 (73)	6.0 (82)	5.1 (36)

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					Age ≥ 65	Comorbid Mental	Deep Coma	Ambulance	Tertiary	Surgery	LOS	Mortality
	(excluding fungal infection) (180030)	A180, A181, A184, A185, A186, A187, A188, A20*, A21*, A22*, A23*, A24*, A25*, A26*, A27*, A28*, A30*, A311, A318, A320, A328, A329, A33, A34, A35, A36*, A371, A38, A42*, A43*, A44*, A482, A484, A488, A49*, A68*, A690, A692, A698, A699, A70, A748, A749, A75*, A77*, A78, A79*, A90, A91, A92*, A93*, A94, A95*, A96*, A98*, A99, B001, B002, B008, B009, B03, B04, B07, B080, B081, B082, B084, B085, B088, B09, B258, B259, B260, B268, B269, B33*, B34*, B35*, B36*, B370, B372, B373, B374, B378, B379, B380, B381, B382, B383, B388, B389, B390, B391, B392, B394, B395, B399, B400, B401, B402, B403, B408, B409, B410, B418, B419, B420, B421, B428, B429, B430, B432, B438, B439, B442, B448, B449, B460, B461, B462, B463, B465, B468, B469, B47*, B48*, B49, B50*, B51*, B52*, B53*, B54, B55*, B56*, B57*, B580, B581, B583, B588, B589, B60*, B64, B650, B651, B652, B653, B658, B660, B661, B662, B663, B665, B668, B669, B67*, B68*, B69*, B70*, B71*, B72, B73, B74*, B75, B76*, B77*, B78*, B79, B80, B81*, B82*, B83*, B85*, B86, B87*, B88*, B90*, B91, B92, B94*, T793, U049										
39	Complications due to operation and procedure (180040)	T80*, T81*, T820, T822, T823, T824, T825, T826, T827, T828, T829, T83*, T84*, T85*, T86*, T87*, T880, T881, T882, T883, T884, T885, T886, T888, T889	6 943	0.6	53.2 (54)	1.3 (60)	0.6 (45)	12.5 (80)	2.0 (48)	60.0 (19)	10.0 (55)	2.3 (49)
40	Pancreas and spleen tumor (06007x)	C25*, C261, D136, D137, D377	6 815	0.6	72.6 (17)	1.9 (40)	0.6 (45)	12.0 (81)	0.6 (78)	41.2 (31)	22.0 (18)	34.9 (5)
41	Drug poisoning (161070a)	T36*, T37*, T38*, T39*, T40*, T41*, T42*, T43*, T44*, T45*	6 748	0.6	13.4 (86)	33.7 (1)	26.2 (2)	74.1 (2)	37.8 (1)	1.7 (91)	2.0 (100)	0.3 (74)
42	Peritonitis, abdominal abscess (excluding female genital organs) (060370)	A183, K630, K631, K632, K65*, K67*	6 746	0.6	48.0 (59)	1.6 (47)	1.0 (33)	28.5 (37)	7.0 (24)	56.6 (21)	16.0 (34)	7.7 (32)
43	Acute pancreatitis (060350)	B263, K85, K863, K871	6 494	0.6	43.6 (64)	3.9 (7)	0.3 (60)	24.3 (44)	4.5 (30)	17.2 (61)	14.0 (44)	2.8 (45)
44	Type 2 diabetes (excluding diabetic ketoacidosis) (100070)	E112, E113, E114, E115, E116, E117, E118, E119	6 265	0.5	58.1 (48)	3.9 (7)	1.0 (33)	18.5 (57)	1.0 (68)	8.9 (74)	18.0 (27)	0.9 (62)
45	Inflammation with cerebrospinal infection (010080)	A066, A321, A390, A80*, A82*, A838, A839, A858, A88*, A89, B003, B004, B005, B010, B011, B020, B021, B050, B051, B060, B261, B262, B375, B384, B431, B582, G00*, G02*, G03*, G041, G042, G048, G049, G05*, G06*, G07, G08, G09, G958	5 850	0.5	15.0 (85)	1.3 (60)	4.0 (14)	20.8 (50)	4.6 (28)	8.0 (77)	9.0 (62)	2.2 (51)
46	Subarachnoid haemorrhage, ruptured cerebral aneurysm (010020)	I60*	5 779	0.5	47.9 (60)	0.8 (76)	33.9 (1)	76.0 (1)	30.3 (2)	73.2 (11)	28.0 (4)	26.9 (9)
47	Bacterial enteritis (150020)	A00*, A01*, A020, A022, A028, A029, A030, A031, A032, A033, A038, A039, A040, A041, A042, A043, A044, A045, A046, A047, A048, A049, A050, A052,	5 632	0.5	25.1 (78)	0.8 (76)	0.2 (68)	13.1 (74)	0.6 (78)	1.7 (91)	6.0 (82)	1.0 (60)

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					Age ≥ 65	Comorbid Mental	Deep Coma	Ambulance	Tertiary	Surgery	LOS	Mortality
		A053, A054, A058, A059										
48	Herpes zoster (080020)	B022, B023, B027, B028, B029	5 542	0.5	63.3 (38)	2.6 (22)	0.0 (82)	2.8 (97)	0.1 (91)	0.9 (94)	8.0 (70)	0.1 (82)
49	Respiratory failure (040130)	J96*	5 501	0.5	71.4 (20)	2.7 (19)	9.5 (7)	42.3 (22)	11.3 (13)	10.9 (69)	14.0 (44)	21.8 (14)
50	Upper urinary tract disease (11012x)	D301, D302, N132, N20*, N281, N288	5 291	0.5	28.8 (75)	0.7 (82)	0.2 (68)	21.8 (48)	0.9 (71)	38.9 (34)	4.0 (95)	0.1 (82)
51	Interstitial pneumonia (040110)	J60, J61, J62*, J63*, J64, J65, J66*, J67*, J68*, J70*, J82, J84*, J990, J991	5 266	0.5	78.8 (10)	2.1 (31)	1.0 (33)	21.2 (49)	4.6 (28)	6.3 (81)	21.0 (20)	25.3 (11)
52	Ischemic enterocolitis (060190)	K55*	5 265	0.5	63.4 (37)	1.1 (68)	0.6 (45)	17.3 (63)	2.4 (39)	11.1 (68)	10.0 (55)	4.1 (38)
53	Malignant tumour of gallbladder (060060)	C23, C24*	5 159	0.4	84.1 (7)	1.3 (60)	0.3 (60)	13.1 (74)	0.8 (73)	58.2 (20)	23.0 (11)	28.8 (8)
54	Brain tumour (010010)	C700, C709, C71*, C722, C723, C724, C793, D320, D329, D330, D331, D332, D333, D337, D339, D420, D429, D430, D431, D432, D433, D437, D439, G131, G132	4 883	0.4	47.6 (62)	1.7 (44)	3.2 (18)	28.2 (38)	4.4 (31)	34.2 (40)	23.0 (11)	17.1 (19)
55	Spinal stenosis (including spondylosis) (07034x)	G551, G552, G553, G558, G950, G951, G952, G959, M4320, M4321, M4322, M4323, M4324, M4325, M4326, M4327, M4328, M4329, M4700, M4701, M4702, M4703, M4704, M4705, M4706, M4707, M4708, M4709, M4710, M4711, M4712, M4713, M4714, M4715, M4716, M4717, M4718, M4719, M4720, M4721, M4722, M4723, M4724, M4725, M4726, M4727, M4728, M4729, M4780, M4781, M4782, M4783, M4784, M4785, M4786, M4787, M4788, M4789, M4790, M4791, M4792, M4793, M4794, M4795, M4796, M4797, M4798, M4799, M4800, M4801, M4802, M4803, M4804, M4805, M4806, M4807, M4808, M4809, M4810, M4811, M4812, M4813, M4814, M4815, M4816, M4817, M4818, M4819, M4820, M4821, M4822, M4823, M4824, M4825, M4826, M4827, M4828, M4829, M4830, M4831, M4832, M4833, M4834, M4835, M4836, M4837, M4838, M4839, M4840, M4841, M4842, M4843, M4844, M4845, M4846, M4847, M4848, M4849, M4850, M4851, M4852, M4853, M4854, M4855, M4856, M4857, M4858, M4859, M4880, M4881, M4882, M4883, M4884, M4885, M4886, M4887, M4888, M4889, M4890, M4891, M4892, M4893, M4894, M4895, M4896, M4897, M4898, M4899, M4940, M4941, M4942, M4943, M4944, M4945, M4946, M4947, M4948, M4949, M4980, M4981, M4982, M4983, M4984, M4985, M4986, M4987, M4988, M4989, M5300, M5301, M5302, M5303, M5304, M5305, M5306, M5307, M5308, M5309, M5310, M5311, M5312, M5313, M5314, M5315, M5316, M5317, M5318, M5319, M5330, M5331, M5332, M5333, M5334, M5335, M5336, M5337, M5338, M5339, M5380, M5381, M5382, M5383, M5384, M5385, M5386	4 807	0.4	77.3 (12)	2.0 (37)	0.0 (82)	23.6 (45)	1.0 (68)	23.5 (52)	20.0 (25)	0.5 (69)

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					Age ≥ 65	Comorbid Mental	Deep Coma	Ambulance	Tertiary	Surgery	LOS	Mortality
		M5387, M5388, M5389, M5390, M5391, M5392, M5393, M5394, M5395, M5396, M5397, M5398, M5399, M9950, M9951, M9952, M9953, M9954, M9955, M9956, M9957, M9958, M9959, M9960, M9961, M9962, M9963, M9964, M9965, M9966, M9967, M9968, M9969, M9970, M9971, M9972, M9973, M9974, M9975, M9976, M9977, M9978, M9979										
56	Anaemia (130090)	D500, D501, D508, D509, D510, D511, D512, D513, D518, D519, D520, D521, D528, D529, D530, D531, D532, D538, D539, D550, D551, D552, D559, D560, D561, D562, D563, D564, D569, D570, D571, D572, D573, D580, D581, D582, D588, D589, D590, D591, D592, D593, D594, D595, D596, D599, D62, D640, D641, D642, D643, D644, D648, D649	4 756	0.4	63.1 (40)	2.0 (37)	0.6 (45)	18.6 (56)	1.9 (51)	37.7 (36)	11.0 (51)	3.8 (39)
57	Maternal care related to the fetus and amniotic cavity and possible delivery problems (120180)	O30*, O31*, O32*, O33*, O34*, O35*, O36*, O40, O41*, O42*, O43*, O44*, O45*, O46*, O48	4 658	0.4	0.0 (95)	0.4 (90)	0.0 (82)	13.3 (73)	0.1 (91)	70.6 (12)	9.0 (62)	0.0 (85)
58	Malignant tumour of rectum and anus (rectosigmoid colon to anus) (060040)	C19, C20, C21*, D011, D012, D013, D014	4 646	0.4	63.6 (35)	1.9 (40)	0.4 (52)	14.6 (68)	1.1 (65)	49.8 (25)	23.0 (11)	21.0 (16)
59	Nontraumatic subdural haemorrhage (010050)	I620, I621	4 606	0.4	85.8 (5)	2.2 (30)	2.7 (20)	27.9 (39)	9.7 (18)	92.6 (4)	10.0 (55)	1.9 (54)
60	Acute renal failure (110290)	K767, N17*	4 034	0.3	70.1 (21)	3.0 (16)	2.7 (20)	31.5 (32)	7.3 (23)	27.0 (49)	15.0 (38)	14.2 (22)
61	Intervertebral disk degeneration, disk herniation (070350)	M50*, M51*	4 004	0.3	20.2 (84)	1.6 (47)	0.0 (82)	27.4 (40)	0.2 (89)	28.8 (47)	15.0 (38)	0.0 (85)
62	Autoimmune disease with systemic organ disease (070560)	D86*, I00, L88, L92*, L93*, L940, L941, L942, L943, L95*, L982, L983, M0200, M0208, M0209, M0210, M0218, M0219, M0220, M0228, M0229, M0280, M0288, M0289, M0290, M0298, M0299, M0300, M0310, M0320, M0360, M0720, M0740, M0748, M0749, M0750, M0758, M0759, M0760, M0768, M0769, M0830, M0838, M0839, M0840, M0848, M0849, M0880, M0888, M0889, M0890, M0898, M0899, M091*, M092*, M098*, M120*, M121*, M1230, M1238, M1239, M1300, M1302, M1303, M1305, M1310, M1380, M1390, M150, M153, M154, M158, M159, M1900, M300, M301, M302, M308, M31*, M32*, M330, M331, M332, M339, M34*, M350, M351, M352, M353, M354, M355, M356, M357, M358, M359, M36*, M633	3 864	0.3	45.3 (63)	3.0 (16)	0.5 (50)	12.9 (76)	1.8 (53)	11.6 (66)	21.0 (20)	4.5 (37)
63	Peritonsillar abscess (030240)	J36	3 811	0.3	10.3 (89)	0.3 (93)	0.0 (82)	2.3 (98)	0.2 (89)	35.0 (39)	6.0 (82)	0.0 (85)
64	Dystocia with complication of labour or obstetric operation (120260)	O61*, O62*, O63*, O64*, O65*, O66*, O67*, O68*, O69*, O70*, O71*, O720, O721, O722, O73*, O74*, O75*, O81*, O82*, O83*, O84*	3 646	0.3	0.0 (95)	0.4 (90)	0.0 (82)	13.6 (72)	0.5 (80)	84.8 (7)	8.0 (70)	0.0 (85)

Supplemental Table

Rank	Clinical diagnosis (Disease code)	ICD-10 codes	N	%	Clinical and procedural characteristics, %/median, (rank)							
					Age ≥ 65	Comorbid Mental	Deep Coma	Ambulance	Tertiary	Surgery	LOS	Mortality
65	Disseminated intravascular coagulation (130100)	D65, D683, O723	3 631	0.3	72.0 (18)	2.1 (31)	8.3 (8)	45.5 (18)	13.9 (11)	49.6 (26)	23.0 (11)	46.0 (1)
66	Other humoral/electrolyte/acid-base balance disorders (100393)	E870, E871, E872, E873, E874, E875, E877, E878	3 622	0.3	61.5 (45)	7.0 (4)	4.0 (14)	32.3 (30)	8.3 (20)	4.6 (86)	8.0 (70)	2.7 (46)
67	Kawasaki disease (1500709)	M303	3 576	0.3	0.0 (95)	0.0 (98)	0.0 (82)	2.1 (99)	0.0 (97)	0.8 (95)	11.0 (51)	0.0 (85)
68	Retinal detachment (020160)	H330, H332, H333, H334, H335	3 566	0.3	23.4 (80)	0.3 (93)	0.0 (82)	0.2 (100)	0.0 (97)	99.2 (1)	14.0 (44)	0.0 (85)
69	Non-Hodgkin lymphoma (130030)	C820, C821, C822, C827, C829, C830, C831, C832, C833, C834, C835, C836, C837, C838, C839, C840, C841, C842, C843, C844, C845, C850, C851, C857, C859	3 492	0.3	68.0 (24)	1.7 (44)	0.7 (41)	13.9 (70)	2.0 (48)	38.5 (35)	29.0 (3)	24.3 (13)
70	Sudden idiopathic hearing loss (030428)	H912	3 489	0.3	33.9 (71)	0.6 (85)	0.0 (82)	5.3 (94)	0.1 (91)	2.1 (89)	10.0 (55)	0.0 (85)
71	Hypertension or other diseases associated with pregnancy/labour/puerperium (120160)	O10*, O11, O12*, O13, O14*, O15*, O16, O21*, O22*, O23*, O25, O26*	3 480	0.3	0.1 (93)	0.8 (76)	0.1 (75)	10.7 (84)	0.3 (87)	30.6 (45)	9.0 (62)	0.0 (85)
72	Other digestive tract disorders (060570)	K00*, K01*, K02*, K03*, K04*, K05*, K06*, K08*, K09*, K10*, K14*, K319, K590, K591, K592, K594, K598, K599, K629, K66*, K759, K764, K769, K918, K919	3 420	0.3	48.2 (58)	2.6 (22)	0.3 (60)	17.7 (61)	2.2 (43)	10.0 (72)	8.0 (70)	2.0 (53)
73	Arteriosclerosis obliterans (050170)	I700, I702, I708, I709, I720, I721, I724, I73*, I740, I741, I742, I743, I744, I745, I748, I749	3 393	0.3	82.1 (9)	1.1 (68)	0.6 (45)	22.9 (46)	4.4 (31)	60.9 (18)	18.0 (27)	9.1 (28)
74	Febrile convulsion (150040)	R560	3 365	0.3	0.1 (93)	0.0 (98)	4.2 (13)	55.2 (9)	1.0 (68)	0.4 (98)	4.0 (95)	0.0 (85)
75	Fracture/dislocation of ankle joint or foot (160850)	M8437, S8250, S8260, S8280, S9200, S9210, S9220, S9230, S9240, S9250, S9270, S9290, S930, S931, S932, S933	3 345	0.3	36.3 (69)	2.1 (31)	0.0 (82)	28.8 (36)	1.8 (53)	83.5 (8)	27.0 (5)	0.0 (85)
76	Periarticular fracture/dislocation of knee (160820)	S7240, S8200, S8210, S8270	3 343	0.3	66.3 (29)	2.4 (27)	0.2 (68)	38.6 (24)	1.4 (60)	69.1 (13)	35.0 (1)	0.4 (73)
77	Influenza, viral pneumonia (040070)	J10*, J11*, J12*	3 309	0.3	4.4 (92)	0.3 (93)	0.3 (60)	6.8 (92)	0.1 (91)	1.2 (93)	6.0 (82)	0.2 (79)
78	Multiple injuries (160990)	S434, S435, S436, S437, S49*, S59*, S69*, S79*, S89*, S99*, T00*, T01*, T02*, T03*, T04*, T06*, T07	3 254	0.3	57.3 (50)	3.6 (10)	1.6 (26)	65.2 (5)	15.9 (10)	40.5 (32)	19.0 (26)	0.8 (64)
79	Fulminant hepatitis, acute liver failure, acute hepatitis (060270)	B150, B159, B160, B161, B162, B169, B170, B171, B172, B178, B19*, B251, K710, K711, K712, K719, K720, K762, K763	3 212	0.3	28.8 (75)	2.1 (31)	1.2 (31)	10.8 (83)	2.8 (38)	6.8 (79)	14.0 (44)	7.8 (31)
80	Chronic obstructive lung disease (040120)	J43*, J44*	3 165	0.3	87.7 (3)	2.1 (31)	1.5 (29)	31.4 (33)	3.8 (34)	4.7 (85)	15.0 (38)	10.7 (25)
81	Unspecified injury (161060)	T090, T091, T092, T093, T094, T095, T098, T099, T10*, T110, T119, T12*, T130, T131, T132, T133, T134, T135, T138, T139, T140, T141, T142*, T143, T144, T145, T146, T148, T149, T189, T288, T289, T66, T71, T73*, T751, T753, T758, T782, T783, T784, T788, T789, T794, T795, T797, T798, T799	3 127	0.3	32.7 (73)	2.9 (18)	5.5 (12)	54.2 (10)	20.1 (7)	25.7 (50)	3.0 (98)	3.8 (39)
82	Haemorrhage in early	O20*	3 108	0.3	0.0 (95)	0.4 (90)	0.0 (82)	5.2 (95)	0.1 (91)	8.3 (75)	9.0 (62)	0.0 (85)

Supplemental Table

Rank	Clinical diagnosis (Disease code)	ICD-10 codes	N	%	Clinical and procedural characteristics, %/median, (rank)							
					Age ≥ 65	Comorbid Mental	Deep Coma	Ambulance	Tertiary	Surgery	LOS	Mortality
	pregnancy (120150)											
83	Leucocytic disease (130070)	D70, D720, D721, D728, D729	3 049	0.3	48.9 (56)	1.2 (66)	0.1 (75)	4.8 (96)	0.5 (80)	17.7 (60)	7.0 (78)	2.9 (43)
84	Dissecting aneurysm (050161)	I710	2 974	0.3	64.4 (32)	1.6 (47)	2.2 (23)	58.8 (7)	21.5 (4)	33.7 (41)	23.0 (11)	10.2 (26)
85	Alcoholic liver disease (060280)	K70*	2 964	0.3	30.7 (74)	14.7 (2)	1.6 (26)	25.2 (43)	2.4 (39)	12.7 (64)	14.0 (44)	9.4 (27)
86	Male genital diseases (11022x)	D294, I861, N41*, N43*, N44, N45*, N46, N47, N48*, N508	2 841	0.2	53.3 (53)	0.9 (73)	0.0 (82)	8.9 (89)	0.7 (75)	15.3 (62)	8.0 (70)	0.3 (74)
87	Pulmonary/mediastinal infection and abscess (040150)	A065, B440, B441, B45*, B659, B664, E321, E328, J850, J851, J852, J853, J86*, J985	2 834	0.2	62.2 (42)	2.6 (22)	0.7 (41)	20.4 (51)	3.8 (34)	18.9 (58)	24.0 (9)	11.4 (23)
88	Malignant tumour of oesophagus (including cervical region) (060010)	C150, C151, C152, C153, C154, C155, C158, C159, D001	2 805	0.2	66.6 (28)	2.0 (37)	0.4 (52)	12.7 (77)	0.7 (75)	36.5 (38)	22.0 (18)	30.9 (6)
89	Pelvic injury (160980)	S321*, S322*, S323*, S324*, S325*, S327*, S328*, S332, S333, S334, S335, S336, S337, S348, S377*, S378*, S379*, S383, S39*	2 783	0.2	67.7 (25)	3.2 (13)	0.7 (41)	53.3 (12)	10.2 (17)	22.6 (54)	25.0 (7)	1.0 (60)
90	Muscle and tendon injury of the extremities (160610)	M620*, M621*, M623*, M626*, M628*, M629*, M660*, M661*, M662*, M663*, M664*, M665*, S46*, S534, S56*, S633, S634, S635, S636, S637, S66*, S731, S76*, S86*, S934, S935, S936, S96*, T112, T115	2 700	0.2	33.3 (72)	4.5 (5)	0.8 (38)	30.8 (34)	3.6 (36)	55.5 (22)	10.0 (55)	0.6 (66)
91	Retroperitoneal disease (110050)	C786, D200, D483	2 695	0.2	65.1 (31)	1.6 (47)	0.4 (52)	12.7 (77)	0.9 (71)	28.4 (48)	21.0 (20)	45.7 (2)
92	Chemical poisoning (161070b)	T46*, T47*, T48*, T49*, T50*, T51*, T52*, T53*, T54*, T55, T56*, T57*, T58, T59*, T60*, T61*, T62*, T63*, T64, T65*, T887	2 694	0.2	40.5 (68)	9.0 (3)	7.9 (10)	52.6 (13)	21.3 (6)	12.7 (64)	3.0 (98)	3.8 (39)
93	Facial injury (including oral/pharyngeal injury) (160200)	S003, S004, S005, S012, S013, S014, S015, S022*, S023*, S024*, S025*, S026*, S027*, S028*, S029*, S041, S042, S043, S044, S045, S046, S047, S048, S049, S070, S078, S081, S088, S099, S100, S101, T180	2 576	0.2	24.3 (79)	2.6 (22)	1.9 (25)	53.4 (11)	11.3 (13)	55.0 (24)	5.0 (89)	0.6 (66)
94	Malignant tumour of bone or soft tissue (excluding spine and spinal cord) (070040)	C400, C401, C402, C403, C408, C409, C413, C418, C419, C471, C472, C473, C474, C475, C476, C478, C479, C491, C492, C493, C494, C495, C496, C498, C499, C764, C765, C773, C774, C795, C96*, D092, D097	2 550	0.2	63.1 (40)	3.5 (11)	0.2 (68)	17.5 (62)	0.5 (80)	24.1 (51)	25.0 (7)	24.4 (12)
95	Malignant prostatic tumour (110080)	C61, C637, D075	2 549	0.2	90.3 (2)	1.3 (60)	0.7 (41)	15.6 (65)	0.5 (80)	23.1 (53)	16.0 (34)	21.8 (14)
96	Periarticular fracture/dislocation of elbow (160740)	S4240, S5200, S5210, S530, S531	2 494	0.2	20.3 (83)	0.7 (82)	0.0 (82)	18.8 (54)	0.8 (73)	95.8 (2)	4.0 (95)	0.2 (79)
97	Fracture of forearm (160760)	S5220, S5230, S5240, S5250, S5270, S5280, S5290	2 463	0.2	41.0 (67)	0.5 (87)	0.1 (75)	27.1 (41)	1.6 (55)	95.4 (3)	7.0 (78)	0.0 (85)
98	Diabetic ketoacidosis, nonketotic coma (100040)	E100, E101, E110, E111, E130, E131, E140, E141	2 444	0.2	41.7 (66)	4.0 (6)	9.8 (6)	44.7 (20)	10.4 (15)	4.9 (84)	15.0 (38)	3.4 (42)
99	Other musculoskeletal/connective tissue diseases (071030)	M!!!!, M0000, M0008, M0009, M0010, M0018, M0019, M0020, M0028, M0029, M0080, M0088, M0089, M0090, M0098, M0099, M0100, M0108, M0109, M0110, M0118, M0119, M0120, M0128, M0129, M0130, M0138, M0139, M0140, M0148,	2 389	0.2	47.7 (61)	1.3 (60)	0.0 (82)	47.1 (16)	0.5 (80)	5.5 (83)	8.0 (70)	0.5 (69)

Supplemental Table

Rank	Clinical diagnosis (Disease code)	ICD-10 codes	N	%	Clinical and procedural characteristics, %/median, (rank)							
					Age ≥ 65	Comorbid Mental	Deep Coma	Ambulance	Tertiary	Surgery	LOS	Mortality
100	Fracture or dislocation around the shoulder (160720)	M0149, M0150, M0158, M0159, M0160, M0168, M0169, M0180, M0188, M0189, M0308, M0309, M0312, M0318, M0319, M0328, M0329, M0368, M0369, M1240, M1248, M1249, M1250, M1258, M1259, M1280, M1288, M1289, M1309, M1319, M1389, M1399, M1908, M1909, M1910, M1918, M1919, M1920, M1928, M1929, M1980, M1988, M1989, M1990, M1998, M1999, M2100, M2108, M2109, M2110, M2118, M2119, M2120, M2128, M2129, M2170, M2178, M2179, M2180, M2188, M2189, M2190, M2198, M2199, M2450, M2458, M2459, M2460, M2468, M2469, M2480, M2488, M2489, M2500, M2508, M2509, M2510, M2518, M2519, M2540, M2548, M2549, M2550, M2551, M2552, M2554, M2555, M2556, M2557, M2558, M2559, M2560, M2568, M2569, M2570, M2578, M2579, M2580, M2588, M2589, M2590, M2598, M2599, M540*, M541*, M542*, M543*, M544*, M545*, M546*, M548*, M549*, M671, M678, M679, M798*, M799*, M8300, M8301, M8302, M8303, M8304, M8305, M8307, M8308, M8309, M8310, M8311, M8312, M8313, M8314, M8315, M8317, M8318, M8319, M8320, M8321, M8322, M8323, M8324, M8325, M8327, M8328, M8329, M8330, M8331, M8332, M8333, M8334, M8335, M8337, M8338, M8339, M8340, M8341, M8342, M8343, M8344, M8345, M8347, M8348, M8349, M8350, M8351, M8352, M8353, M8354, M8355, M8357, M8358, M8359, M8380, M8381, M8382, M8383, M8384, M8385, M8387, M8388, M8389, M8390, M8391, M8392, M8393, M8394, M8395, M8397, M8398, M8399, M852*, M858*, M859*, M8600, M8800, M8801, M8802, M8803, M8804, M8805, M8806, M8807, M8809, M889*, M900*, M901*, M902*, M906*, M907*, M913*, M938, M951, M952, M953, M954, M955, M958, M959, M961, M966, M968, M969, M990*, M991*, M992*, M993*, M994*, M998*, M999*	2 370	0.2	68.9 (22)	3.1 (15)	0.0 (82)	35.6 (26)	2.2 (43)	76.8 (9)	21.0 (20)	0.6 (66)
		M2431, M2441, S4220, S4230, S4270, S4280, S4290, S430, S431, S432, S433										

Rankings were based on data from the top 100 causes of admissions. Comorbidity of mental illness was defined as the following ICD-10 codes as comorbidities: unipolar depressive disorders (F32–F33), bipolar affective disorder (F30–F31), schizophrenia (F20–F29), alcohol use disorders (F10), drug use disorders (F11–F16 and F18–F19), post-traumatic stress disorder (F431), obsessive-compulsive disorder (F42), panic disorder (F400 and F410), or insomnia (F51). Deep coma was defined as a score on the Japan Soma Scale of 100 or more.

Ambulance, ambulance services; LOS, median length of stay; Mortality, in-hospital mortality; Surgery, surgical procedures; Tertiary, tertiary emergency medical services; *, wild card; M!!!!, ICD-10 code numbers starting with 'M' not elsewhere classified.