

Table 2. Comparison of ascertainment of comorbidity using data from medical notes or administrative data from index admission and 1 year prior

Condition	Total number (%) with condition recorded in notes or admin data	Total no (%*) in notes	Total no (%*) in admin data	Total no (%*) in both	p-value**	Kappa coefficient	95% confidence intervals for kappa
Myocardial infarction	53 (9.3)	49 (92.5)	21 (39.6)	17 (32.1)	<0.001	0.46	0.31-0.60
Congestive heart failure	74 (13.0)	64 (86.5)	30 (40.5)	20 (27.0)	<0.001	0.38	0.25-0.51
Peripheral vascular disease	27 (4.7)	24 (88.9)	13 (48.1)	10 (37.0)	0.013	0.53	0.33-0.72
Cerebrovascular disease	46 (8.1)	39 (84.8)	15 (32.6)	8 (17.4)	0.001	0.27	0.11-0.43
Dementia	14 (2.5)	13 (92.9)	5 (35.7)	4 (28.6)	0.021	0.44	0.15-0.72
Chronic pulmonary disease	141 (24.8)	128 (90.8)	74 (52.5)	61 (43.3)	<0.001	0.53	0.44-0.61
GI ulcer disease	26 (4.6)	22 (84.6)	9 (34.6)	5 (19.2)	0.007	0.31	0.09-0.52
Diabetes (mild to moderate)	94 (16.5)	73 (77.7)	84 (89.4)	63 (67.0)	<0.001	0.77	0.69-0.85
Diabetes with end organ damage	28 (4.9)	21 (75.0)	18 (64.3)	11 (39.3)	0.630	0.55	0.36-0.74
Hemiplegia or paraplegia	15 (2.6)	9 (60.0)	12 (80.0)	6 (40.0)	0.511	0.56	0.31-0.82
Moderate or severe renal disease	24 (4.2)	7 (29.2)	22 (91.7)	5 (20.8)	<0.001	0.33	0.11-0.55
Any malignancy (except colon or rectal) including lymphoma or leukaemia	39 (6.9)	25 (64.1)	27 (69.2)	13 (33.3)	0.857	0.48	0.30-0.65
Angina [‡]	74 (13.0)	69 (93.2)	22 (29.7)	17 (23.0)	<0.001	0.33	0.21-0.46
Essential hypertension [‡]	239 (42.0)	216 (90.4)	152 (63.6)	129 (54.0)	<0.001	0.56	0.49-0.63
Cardiac arrhythmias [‡]	82 (14.4)	78 (95.1)	30 (36.6)	26 (31.7)	<0.001	0.44	0.32-0.56
CV valve disease [‡]	22 (3.9)	13 (59.1)	15 (68.2)	6 (27.3)	0.801	0.41	0.18-0.65
Other neurological condition ^{‡a}	17 (3.0)	13 (76.5)	9 (52.9)	5 (29.4)	0.391	0.44	0.18-0.71

*As a percentage of Column 1 (Total number with condition recorded in notes or admin data); **Testing whether the proportion of patients with condition is significantly different between the medical notes and administrative data; [‡]Condition not included in Charlson Comorbidity Index.

Table 3. Comparison of ascertainment of comorbidity using data from medical notes or administrative data from index admission and 8 years prior

Condition	Total number (%) with condition recorded in notes or admin data	Total no (%*) in notes	Total no (%*) in admin data	Total no (%*) in both	p-value**	Kappa coefficient	95% confidence Intervals for kappa
Myocardial infarction	55 (9.7)	49 (89.1)	35 (63.6)	29 (52.7)	0.009	0.67	0.55-0.79
Congestive heart failure	80 (14.1)	64 (80.0)	49 (61.3)	33 (41.3)	0.040	0.54	0.42-0.66
Peripheral vascular disease	29 (5.1)	24 (82.8)	19 (65.5)	14 (48.3)	0.302	0.64	0.47-0.81
Cerebrovascular disease	49 (8.6)	39 (79.6)	27 (55.1)	17 (34.7)	0.050	0.49	0.33-0.64
Dementia	14 (2.5)	13 (92.9)	6 (42.9)	5 (35.7)	0.039	0.52	0.25-0.79
Chronic pulmonary disease	147 (25.8)	128 (87.1)	91 (61.9)	72 (49.0)	<0.001	0.58	0.49-0.66
GI ulcer disease	28 (4.9)	22 (78.6)	13 (46.4)	7 (25.0)	0.078	0.38	0.17-0.59
Diabetes (mild to moderate)	99 (17.4)	73 (73.7)	90 (90.9)	64 (64.6)	0.006	0.75	0.67-0.83
Diabetes with end organ damage	29 (5.1)	9 (72.4)	8 (69.0)	12 (41.4)	1.00	0.57	0.39-0.75
Hemiplegia or paraplegia	18 (3.2)	9 (50.0)	16 (88.9)	7 (38.9)	0.065	0.55	0.31-0.79
Moderate or severe renal disease	25 (4.4)	7 (28.0)	23 (92.0)	5 (20.0)	<0.001	0.32	0.10-0.54
Any malignancy (except colon or rectal) including lymphoma or leukaemia	42 (7.4)	25 (59.5)	33 (78.6)	16 (38.1)	0.170	0.53	0.37-0.69
Angina [‡]	76 (13.4)	69 (90.8)	39 (51.3)	32 (42.1)	<0.001	0.55	0.44-0.67
Essential hypertension [‡]	247 (43.4)	216 (87.4)	175 (70.9)	144 (58.3)	<0.001	0.60	0.53-0.67
Cardiac arrhythmias [‡]	92 (16.2)	78 (84.8)	54 (58.7)	40 (43.5)	0.001	0.56	0.45-0.66
CV valve disease [‡]	26 (4.6)	13 (50.0)	21 (80.8)	8 (30.8)	0.096	0.46	0.24-0.67
Other neurological condition ^{‡ a}	18 (3.2)	13 (72.2)	12 (66.7)	7 (38.9)	1.00	0.55	0.31-0.79

*As a percentage of Column 1 (Total number with condition recorded in notes or admin data); **Testing whether the proportion of patients with condition is significantly different between the medical notes and administrative data; [‡]Condition not included in Charlson Comorbidity Index.