

Supplementary Material 11: Additional material for the exploratory analysis of patient-related outcomes

Table 1. Proportion of patients dying in the 12 weeks following admission and the percentage that died in hospital

Survival weeks	Frequency	Cumulative % died	% of deaths that were in hospital
0	7587	5.0%	38.9%
1	1235	5.8%	9.7%
2	1043	6.5%	12.6%
3	987	7.2%	11.9%
4	841	7.7%	11.3%
5	773	8.2%	11.3%
6	731	8.7%	13.1%
7	681	9.2%	9.3%
8	666	9.6%	9.8%
9	589	10.0%	9.5%
10	530	10.3%	10.0%
11	467	10.7%	8.8%
Total in 3m	16130	10.7%	24.0%

Table 2. Overall readmission in smaller hospital acute medical care data set

	Readmissions (number)	Readmissions (per cent)
Within 30 days	168807	14.1%
Within 90 days	266944	22.3%
Within 365 days	350097	29.3%

Table 3. Association between typology and in-hospital mortality (logistic regression; adjusted)

	Model 1: not including proportion of medical staff who are generalists			Model 2: including proportion of medical staff who are generalist		
	Adjusted probability	Std. Err.	(95% CI)	Adjusted probability	Std. Err.	(95% CI)
AMU1						
Closed	0.020	0.001	(0.018, 0.022)	0.019	0.002	(0.016, 0.022)
Open	0.020	0.002	(0.016, 0.023)	0.020	0.002	(0.016, 0.024)
Partial	0.020	0.001	(0.018, 0.021)	0.020	0.001	(0.018, 0.022)
AMU2						
Acute physician dominant	0.019	0.001	(0.016, 0.021)	0.019	0.001	(0.017, 0.022)
Mixed	0.020	0.001	(0.018, 0.022)	0.020	0.001	(0.018, 0.022)
Specialist physician dominant	0.022	0.001	(0.019, 0.025)	0.022	0.002	(0.018, 0.025)
Ward1						
Closed	0.019	0.001	(0.017, 0.020)	0.019	0.001	(0.017, 0.020)
Open	0.018	0.002	(0.013, 0.022)	0.020	0.004	(0.012, 0.027)
Partial	0.022	0.002	(0.019, 0.025)	0.021	0.002	(0.018, 0.024)
Ward2						
General medical ward	0.020	0.001	(0.017, 0.023)	0.020	0.001	(0.017, 0.023)
Specialist ward	0.020	0.001	(0.018, 0.021)	0.019	0.001	(0.018, 0.021)

	Model 1: not including proportion of medical staff who are generalists			Model 2: including proportion of medical staff who are generalist		
	Adjusted probability	Std. Err.	(95% CI)	Adjusted probability	Std. Err.	(95% CI)
Proportion of medical staff who are generalists >0.5						
No				0.020	0.001	(0.018, 0.021)
Yes				0.020	0.002	(0.017, 0.024)
Observations	699,792			670,182		
Pseudo-R2	0.202			0.202		

Table 4. Association between typology and hospital readmissions within 30 days (logistic regression; adjusted)

	Model 1: not including proportion of medical staff who are generalists			Model 2: including proportion of medical staff who are generalist		
	Adjusted Probability	Std. Err.	(95% CI)	Adjusted Probability	Std. Err.	(95% CI)
AMU1						
Closed	0.146	0.002	(0.142, 0.150)	0.145	0.002	(0.140, 0.149)
Open	0.139	0.004	(0.132, 0.146)	0.138	0.004	(0.131, 0.146)
Partial	0.142	0.002	(0.139, 0.146)	0.143	0.002	(0.140, 0.147)
AMU2						
Acute physician dominant	0.143	0.003	(0.138, 0.147)	0.141	0.002	(0.136, 0.145)
Mixed	0.144	0.002	(0.141, 0.147)	0.144	0.001	(0.141, 0.147)
Specialist physician dominant	0.144	0.004	(0.136, 0.153)	0.143	0.005	(0.134, 0.152)
Ward1						
Closed	0.140	0.002	(0.136, 0.144)	0.139	0.002	(0.135, 0.143)
Open	0.154	0.007	(0.140, 0.168)	0.158	0.008	(0.142, 0.175)
Partial	0.147	0.001	(0.144, 0.150)	0.146	0.002	(0.143, 0.149)
Ward2						
General medical ward	0.140	0.002	(0.136, 0.143)	0.140	0.002	(0.136, 0.145)
Specialist ward	0.146	0.002	(0.142, 0.150)	0.145	0.002	(0.141, 0.148)

	Model 1: not including proportion of medical staff who are generalists			Model 2: including proportion of medical staff who are generalist		
	Adjusted Probability	Std. Err.	(95% CI)	Adjusted Probability	Std. Err.	(95% CI)
Proportion of medical staff who are generalists >0.5						
No				0.143	0.001	(0.140, 0.145)
Yes				0.142	0.004	(0.135, 0.150)
Observations	707,054			677,159		
Pseudo-R2	0.066			0.066		