

Data supplement

Table DS1 Rapid discharge^a

	Odds ratio	Standard error	P	95% CI (odds ratio)
Service system				
Routine (in catchment)	reference			
Triage (in catchment)	2.54	0.39	<0.001	–1.88 to 3.42
Interaction between system and catchment area				
Admission from outside catchment area (for routine care, reference)	1.42	0.36	0.167	0.86 to 2.35
Service system × catchment area (interaction, additional effect of triage)	0.63	0.21	0.163	0.33 to 1.21
Diagnosis				
Schizophrenia	reference			
Other psychotic disorder	1.30	0.27	0.208	0.86 to 1.95
Bipolar and related disorders	1.28	0.30	0.282	0.82 to 2.01
Depressive disorder	2.41	0.56	<0.001	1.53 to 3.80
Neurotic and anxiety disorders	7.17	2.08	<0.001	4.06 to 12.66
Personality disorder	5.52	1.86	<0.001	2.86 to 10.68
Substance use disorder	4.48	1.10	<0.001	2.77 to 7.25
Other/unspecified	2.44	0.77	0.004	1.32 to 4.52
Age	0.98	0.01	0.003	0.97 to 0.9
Previous number of admissions (log scale)	0.95	0.11	0.652	0.76 to 1.19
Mental Health Act 1983 section code				
Informal	0.95	0.11	0.652	0.76 to 1.19
Section 2				
Section 3/forensic				
Residential mobility	reference			
No	0.16	0.03	<0.001	0.11 to 0.24
Yes	0.03	0.01	<0.001	0.02 to 0.07

a. Multivariable logistic regression model including a random intercept to account for clustering effects by patient. Number of admissions, 1722; number of individuals, 1367; average number of admissions per person, 1.3. Intraclass correlation coefficient (ρ) 0.05.

Table DS2 Use of home treatment^a

	Odds ratio	Standard error	P	95% CI (odds ratio)
Service system				
Routine (in catchment)	reference			
Triage (in catchment)	1.71	0.30	0.002	1.21–2.41
Admission from outside catchment area				
Admission from outside catchment area (for routine care, reference)	0.72	0.22	0.277	0.40–1.30
Service system × catchment area (interaction, additional effect of triage)	0.77	0.30	0.494	0.36–1.65
Diagnosis				
Schizophrenia	reference			
Other psychotic disorder	1.20	0.25	0.377	0.80–1.82
Bipolar and related disorders	1.81	0.41	0.009	1.16–2.82
Depressive disorder	1.21	0.31	0.459	0.73–2.01
Neurotic and anxiety disorders	0.45	0.14	0.009	0.24–0.82
Personality disorder	0.32	0.15	0.014	0.13–0.79
Substance use disorder	0.39	0.12	0.003	0.21–0.72
Other/unspecified	0.36	0.16	0.018	0.16–0.84
Age	1.00	0.01	0.554	0.99–1.02
Previous number of admissions (log scale)	0.63	0.08	<0.001	0.49–0.81
Mental Health Act 1983 section code				
Informal	reference			
Section 2	1.15	0.23	0.470	0.78–1.71
Section 3/forensic	1.89	0.36	0.001	1.30–2.74
Residential mobility				
No	reference			
Yes	0.36	0.10	<0.001	0.21–0.62

a. Multivariable logistic regression model including a random intercept to account for clustering effects by patient. Number of admissions, 716; number of individuals, 1363; average number of admissions per person, 1.3. Intraclass correlation coefficient (ρ) 0.29.

	Days	Bootstrap standard error	P	95% CI (percentile-based)
Service system				
Routine (in catchment)	reference			
Triage (in catchment)	7.83	4.41	0.076	– 1.62 to 15.63
Interaction between system and catchment area				
Admission from outside catchment area (for routine care, reference)	– 12.35	6.12	0.043	– 24.51 to 1.07
Service system × catchment area (interaction, additional effect of triage)	2.65	8.23	0.748	– 12.88 to 19.47
Diagnosis				
Schizophrenia	reference			
Other psychotic disorder	– 9.46	5.84	0.105	– 21.19 to 1.72
Bipolar and related disorders	– 1.41	8.77	0.873	– 18.33 to 16.19
Depressive disorder	– 6.72	6.30	0.287	– 18.79 to 5.83
Neurotic and anxiety disorders	– 21.78	10.29	0.034	– 38.76 to 1.34
Personality disorder	– 24.98	8.77	0.004	– 42.63 to 7.43
Substance use disorder	– 30.37	5.18	<0.001	– 40.65 to – 20.22
Other/unspecified	– 6.90	9.30	0.458	– 24.80 to 12.51
Age	0.10	0.16	0.533	– 0.21 to 0.42
Previous number of admissions (log scale)	7.31	3.35	0.029	1.46 to 14.55
Mental Health Act 1983 section code				
Informal	reference			
Section 2	4.80	3.36	0.154	– 1.69 to 11.52
Section 3/forensic	68.45	5.56	<0.001	57.87 to 79.39
Residential mobility				
No	reference			
Yes	68.22	9.70	<0.001	49.30 to 87.62

a. Multivariable linear regression model including a random intercept to account for clustering effects by patient. Bootstrapped standard errors and percentile-based confidence intervals were estimated using 1000 repetitions. Number of admissions, 1716; number of individuals, 1363; average number of admissions per person, 1.3. Intraclass correlation coefficient (ρ) 0.49.

	Odds ratio	Standard Error	P	95% CI (odds ratio)
Service system				
Routine care system (in catchment)	reference			
Triage system (in catchment)	1.05	0.17	0.758	0.77–1.44
Ethnicity				
White	reference			
Black and minority ethnic	1.20	0.21	0.291	0.85–1.70
Other	0.58	0.17	0.071	0.32–1.05
Employment				
Unemployed/retired/education	reference			
Employed	0.72	0.18	0.187	0.43–1.18
Marital status				
Single	reference			
Divorced/separated/widowed	0.51	0.12	0.005	0.32–0.82
Married/cohabiting	0.39	0.13	0.004	0.21–0.75
Diagnosis				
Schizophrenia	reference			
Other psychotic disorder	1.30	0.29	0.238	0.84–2.03
Bipolar and related disorder	1.42	0.37	0.181	0.85–2.37
Depressive disorder	0.60	0.19	0.100	0.32–1.10
Neurotic and anxiety disorders	0.64	0.24	0.230	0.30–1.33
Personality disorder	2.34	1.03	0.054	0.99–5.55
Substance use disorder	1.34	0.37	0.290	0.78–2.31
Other/unspecified	0.38	0.17	0.028	0.16–0.90
Any admissions prior to the first admission in 2009				
No	reference			
Yes	2.70	0.43	<0.001	1.97–3.69
Residential mobility				
No	reference			
Yes	0.49	0.13	0.006	0.29–0.81

a. Multivariable logistic regression model shown was constructed using a stepwise variable selection procedure retaining all variables that had an association with readmission ($P < 0.2$). Candidate variables that were tested and removed ($P > 0.2$) were: residency outside catchment area, use of home treatment at the end of index admission, gender and age. $n = 781$ individuals.

Table DS5 Costs of in-patient stay ^a				
	Cost, £	Bootstrap standard error	P	95% CI (percentile-based)
Service system				
Routine (in catchment)	reference			
Triage (in catchment)	391	1316	0.766	–2535 to 2748
Interaction between system and catchment area				
Admission from outside catchment area (for routine care, reference)	–4511	1803	0.012	–8033 to –944
Service system × catchment area (interaction, additional effect of triage)	3310	2501	0.186	–1342 to 8406
Diagnosis				
Schizophrenia	reference			
Other psychotic disorder	–3456	1708	0.043	–6763 to –322
Bipolar and related disorder	–397	2626	0.880	–5329 to 4807
Depressive disorder	–2018	1869	0.280	–5544 to 1921
Neurotic and anxiety disorders	–6621	3063	0.031	–11 453 to 176
Personality disorder	–6563	3031	0.030	–12 620 to –823
Substance use disorder	–8722	1504	<0.001	–11 649 to –5900
Other/unspecified	–1477	2801	0.598	–6814 to 4466
Age	18	48	0.710	–76 to 109
Previous number of admissions (log scale)	2809	1026	0.006	973 to 5062
Mental Health Act 1983 section code				
Voluntary	reference			
Involuntary assessment only section	1297	868	0.135	–378 to 3059
Involuntary treatment section	22 746	1746	<0.001	19 420 to 26 175
Fixed residence				
Yes	reference			
No	20 746	2928	<0.001	14 847 to 26 548
Constant	9316	2480	<0.001	4657 to 14 330
a. Multivariable linear regression model including a random intercept to account for clustering effects by patient. Bootstrapped standard errors and percentile-based confidence intervals were estimated using 1000 repetitions. Number of admissions, 1716; number of individuals, 1363; average number of admissions per person, 1.3. Intraclass correlation coefficient (ρ) 0.47.				