

Table 3 Factors affecting inappropriate admissions by hospital department, adjusted for hospital using logistic regression

Variable	Inappropriate admissions to:								
	Surgery			Obstetrics & gynaecology			Internal medicine		
	No.	%	OR (95% CI)	No.	%	OR (95% CI)	No.	%	OR (95% CI)
Sex									
Male	128	59.8	–	–	–	–	18	19.6	–
Female	103	50.2	0.82 (0.30–2.10)	–	–	n/a ^a	25	18.4	1.08 (0.50–2.50)
Age group(years)									
> 15–< 60	195	55.1	–	–	–	–	32	20.1	–
≤ 15	26	54.2	5.80 (0.60–56.1)	–	–	n/a ^b	1	33.3	9.40 (0.39–2.29)
≥ 60	10	58.8	9.90 (0.70–142.3)	–	–	–	10	15.2	0.90 (0.34–2.43)
Marital status									
Married	124	57.1	–	64	22.8	–	39	22.8	–
Other	100	52.4	0.38 (0.13–1.09)	4	57.1	0.80 (0.07–8.30)	4	7.3	0.20 (0.05–0.80)
Education level									
Illiterate/read & write	142	63.1	0.74 (0.21–2.60)	37	29.6	0.70 (0.20–2.57)	30	18.9	0.80 (0.35–1.80)
Primary/preparatory	42	42.9	1.05 (0.20–5.60)	22	16.3	1.20 (0.29–5.30)	13	19.1	–
Secondary/university	43	47.8	–	10	30.3	–	–	–	n/a ^c
Day of admission									
Sunday–Wednesday	90	51.4	–	30	20.8	–	14	15.9	–
Saturday	119	58.3	1.28 (0.47–3.4)	25	26.3	0.58 (0.21–1.60)	21	23.9	1.60 (0.67–3.70)
Thursday/Friday	22	55.0	0.73 (0.12–4.1)	15	26.8	1.20 (0.40–3.90)	8	15.4	1.01 (0.35–2.80)
Route of admission									
Emergency room	1	1.2	–	15	8.0	–	5	4.8	–
Outpatient	230	68.9	n/a ^d	55	50.9	26.3 (11.3–60.9)*	36	30.0	4.40 (2.01–9.70)*
Mode of payment									
Free	198	61.3	–	67	30.6	–	41	19.2	–
Paid	32	38.6	0.46 (0.14–1.45)	1	1.4	0.19 (0.01–3.66)	1	8.3	0.49 (0.05–4.60)

*P < 0.05.

^aAll patients female; ^bAll patients adult; ^cNone had higher education; ^dOnly 1 case from the emergency room.

Data were missing for some categories.

OR = odds ratio; CI = confidence interval; n/a = not applicable.