

Table. Univariate and multivariate logistic regression analysis of variables associated with preventable emergency admissions based on criterium 1 and 2

Independent variable	Preventable admissions	Non-preventable admission	Univariate analysis		Multivariate analysis	
			OR (95% CI)	p-value	OR (95% CI)	p-value
Age, mean years (sd)	80.97 (6.31)	79.01 (6.75)	1.05 (1.00-1.10)	0.06	1.04 (1.01-1.08)	0.02
Sex (%)				0.08		
<i>Male (ref)</i>	4.8	95.2	1			
<i>Female</i>	8.8	91.2	1.97 (0.93-4.15)			
ED Referral (%)						
<i>Physician or ambulance (ref)</i>	5.7	94.3	1	0.11		
<i>By patient self</i>	9.8	90.2	1.76 (0.86- 3.64)			
Urgency, (%)				0.23		
<i>High Urgency* (ref)</i>	6.0	94.0	1			
<i>Low urgency**</i>	7.9	92.1	1.56 (0.76-3.19)			
Time of arrival, (%)				0.66		
<i>Office hours*** (ref)</i>	6.5	93.5	1			
<i>Out-of-hours****</i>	7.7	92.3	1.18 (0.57-2.43)			
Day of arrival, (%)				0.07		
<i>Weekdays (ref)</i>	4.8	95.2	1		1	
<i>Weekend*****</i>	12.4	87.6	2.67 (1.31-5.43)		1.86 (1.13-3.07)	0.02
Polypharmacy*****, (%)				0.54		
<i>No (ref)</i>	5.7	94.3	1			
<i>Yes</i>	7.3	92.7	1.34 (0.54-3.33)			
CCI, mean (sd)	5.97 (1.83)	5.96 (2.18)	1.00 (0.85-1.18)	0.98		
ED length of stay, mean minutes (sd)	259.68 (107.71)	220.79 (95.48)	1.00 (1.00-1.01)	0.07		
Marital status, (%)				0.17		
<i>Partner/spouse (ref)</i>	5.3	94.7	1			
<i>Single</i>	8.6	91.4	1.73 (0.80-3.74)			
Informal care at home, (%)				0.24		
<i>No (ref)</i>	4.6	95.4	1			
<i>Yes</i>	9.9	90.1	1.85 (0.94 -3.62)			
Specialties involved at the ED, (%)				0.02		
<i>1 (ref)</i>	5.3	94.7	1			
<i>>1</i>	12.3	87.7	2.44 (1.18-5.03)			

OR, Odds Ratio; ED, Emergency Department; CCI, Charlson Comorbidity Index.

*Based on the urgency levels 1 (Life threatening) and 2 (Emergent) of the Netherlands Triage System (NTS).

**Based on the urgency levels 3 (Urgent), 4 (Non-urgent) and 5 (Advice) of the Netherlands Triage System (NTS).

***Between 6:01am and 6:00pm

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***** Between Friday 6:01pm and Sunday 12 noon.

*****≥5 different types of medicines.