

Supplementary Materials

Supplementary Table S1. Factors associated with HAI incidence: results of univariate and age-adjusted Poisson regressions.

	Crude IRR¹ (95%CI)	p-value	Age adjusted IRR¹ (95%CI)	p-value
Male	1.31 (0.85 – 2.01)	0.221		
Age	1.03 (1.01 – 1.04)	<0.001		
Aetiology (ref. traumatic)	1.49 (0.89 – 2.49)	0.269		
Vascular	1.33 (0.84 – 2.08)			
Other				
Comorbidity	1.71 (1.11 – 2.65)	0.016	1.02 (0.61 – 1.70)	0.947
LCF upon admission	1.00 (0.88 – 1.14)	0.988		
DRS upon admission	1.01 (0.98 – 1.06)	0.475		
CPE colonization (ref. No)	1.55 (0.88 – 2.73)	0.009	1.55 (0.88 – 2.73)	0.116
Upon admission	2.24 (1.20 – 3.84)		1.76 (1.00 – 3.08)	
During hospitalization				
Pre-admission surgery	0.69 (0.46 – 1.02)	0.066		
Surgery over hospitalization	0.72 (0.48 – 1.06)	0.092		
Number of transfers	0.85 (0.67 – 1.06)	0.152		
Number of Indwelling Catheter	0.98 (0.84 – 1.13)	0.752		
Indwelling Catheter days (ref. 0-14 days)	1.53 (0.65 – 3.57)	0.012	1.51 (0.64 – 3.53)	0.154
15-60 days	2.45 (1.13 – 5.33)		1.96 (0.89 – 4.31)	
>60 days				
Number of Central Venous Catheter	1.09 (0.84 – 1.41)	0.541		
CVC days (ref. 0)		0.021		0.455
1-31 days	0.68 (0.39 – 1.17)		0.73 (0.42 – 1.25)	
>31 days	1.37 (0.88 – 2.14)		0.99 (0.61 – 1.61)	
Tracheotomy tube (ref. No)	2.01 (0.74 – 5.48)	0.170		
Tracheotomy tube days (ref. 0-30 days)	1.51 (0.69 – 3.28)	0.005	1.34 (0.62 – 2.92)	0.157
31-120 days	2.49 (1.24 – 4.98)		1.83 (0.89 – 3.77)	
>120 days				
PEG or PEJ (ref. No)	1.93 (1.12 – 3.34)	0.019	1.60 (0.91 – 2.80)	0.086
PEG or PEJ days (ref. 0)		0.010		0.142
1-200 days	2.52 (1.35 – 4.67)		1.88 (0.99 – 3.58)	
>200 days	1.72 (0.97 – 3.03)		1.50 (0.84 – 2.67)	

¹. IRR: incidence rate ratio.

Legend: MDRO Multidrug Resistant Organisms, HAI healthcare associated infection, LCF levels of cognitive functioning, DRS disability rating scale, CPE carbapenemase-producing Enterobacteriaceae, PEG percutaneous endoscopic gastrostomy, PEJ percutaneous endoscopic jejunostomy.

Supplementary Table S2. Factors associated with MDRO HAI incidence: results of univariate and age-adjusted Poisson regressions.

	Crude IRR¹ (95%CI)	p-value	Age adjusted IRR¹ (95%CI)	p-value
Male	1.25 (0.55 – 2.86)	0.594		
Age	1.06 (1.03 – 1.09)	<0.001		
Aetiology (ref. traumatic)		0.003		0.086
Vascular	1.93 (0.65 – 5.76)		0.68 (0.19 – 2.48)	
Other	5.25 (1.87 – 14.7)		1.76 (0.49 – 6.29)	
Comorbidity	1.56 (0.66 – 3.69)	0.310		
LCF upon admission	1.20 (0.94 – 1.54)	0.134		
DRS upon admission	0.98 (0.91 – 1.05)	0.542		
CPE colonization (ref. No)		0.019		0.065
Upon admission	4.77 (1.07 – 21.3)		4.59 (1.02 – 20.5)	
During hospitalization	5.45 (1.23 – 24.2)		3.09 (0.68 – 14.1)	
Pre-admission	0.59 (0.28 – 1.26)	0.171		
Surgery				
Surgery during hospitalization	0.56 (0.26 – 1.20)	0.135		
Number of transfers	0.72 (0.45 – 1.14)	0.157		
Indwelling catheter days (ref. 0-14days)	1.08 (0.82 – 1.41)	0.580		
15-60days	1.21 (0.24 – 6.26)	0.207		
>60 days	2.39 (0.56 – 10.2)			
Central venous catheter	1.43 (0.86 – 2.37)	0.168		
days (ref. 0)		<0.001		0.029
1-31 days	0.10 (0.01 – 0.86)		0.13 (0.02 – 0.98)	
>31 days	1.62 (0.74 – 3.57)		0.85 (0.34 – 2.09)	
Tracheostomy tube (ref. No)	1.04 (0.25 – 4.38)	0.959		
days (ref. 0-30days)		0.094		
31-120 days	1.54 (0.30 – 7.95)			
>120 days	3.20 (0.75 – 13.7)			
PEG or PEJ (ref. No)	1.94 (0.67 – 5.60)	0.223		
PEG or PEJ days		0.096		
(ref. 0)	3.14 (0.99 – 10.0)			
1-200 days	1.49 (0.49 – 4.58)			
>200 days				

¹. IRR: incidence rate ratio.

Legend: MDRO Multidrug Resistant Organisms, HAI healthcare associated infection, LCF levels of cognitive functioning, DRS disability rating scale, CPE carbapenemase-producing Enterobacteriaceae, PEG percutaneous endoscopic gastrostomy, PEJ percutaneous endoscopic jejunostomy.