

Table 2a: Comparison of patient's characteristics by time to NIV across the two audits period 2008 and 2014

Variable	Audit 2008					Audit 2014				
	< 60 minutes n(%)	60 to 179 minutes n(%)	180 to 1400 minutes n(%)	24 hours n(%)	P value	< 60 minutes n(%)	60 to 179 minutes n(%)	180 to 1400 minutes n(%)	>24 hours n(%)	P value
Age										
Mean (SD)	249 (24.1)	267(25.9)	323(31.3)	193(18.7)	0.099	249(20.9)	256(21.5)	465(39.0)	221(18.6)	0.099
Gender					0.392					0.290
Male	121 (48.6)	110 (41.2)	141 (43.7)	84 (43.5)		110 (44.2)	111 (43.4)	219 (47.1)	87 (39.4)	
Female	128 (51.4)	157 (58.8)	182 (55.8)	109 (56.5)		139 (55.8)	145 (56.6)	246 (52.9)	134 (60.6)	
Admission day of week					0.337					0.861
Sunday	39 (15.7)	35 (13.1)	53 (16.4)	18 (9.3)		48 (19.3)	43 (16.8)	75 (16.1)	29 (13.1)	
Monday	52 (20.9)	53 (19.9)	75 (23.2)	32 (16.6)		37 (14.9)	44 (17.2)	79 (17)	42 (19)	
Tuesday	36 (14.5)	43 (16.1)	50 (15.5)	25 (13)		32 (12.9)	36 (14.1)	81 (17.4)	28 (12.7)	

Wednesday	28 (11.2)	33 (12.4)	41 (12.7)	33 (17.1)		32 (12.9)	29 (11.3)	49 (10.5)	28 (12.7)	
Thursday	34 (13.7)	41 (15.4)	35 (10.8)	34 (17.6)		31 (12.4)	39 (15.2)	68 (14.6)	38 (17.2)	
Friday	33 (13.3)	39 (14.6)	43 (13.3)	35 (18.1)		34 (13.7)	32 (12.5)	50 (10.8)	26 (11.8)	
Saturday	27 (10.8)	23 (8.6)	26 (8)	16 (8.3)		35 (14.1)	33 (12.9)	63 (13.5)	30 (13.6)	
Length of stay (days)										
Mean (SD)	12.9 (15.9)	13 (15.1)	11.4 (9.1)	19.5 (15)	<0.001	9.8 (9)	9.8 (9.3)	9.1 (8.3)	14.7 (12.4)	<0.001
Chest Xry (consolidation)					0.256					0.748
Yes	49 (19.7)	45 (16.9)	74 (22.9)	44 (22.8)		66 (26.5)	63 (24.6)	102(21.9)	58 (26.2)	
No	200(80.3)	222(83.1)	249(77.1)	149(79.5)		183(73.5)	193(75.4)	465(78.1)	221(73.8)	
Antibiotic received within 24 hours					0.134					0.001
Yes	211(84.7)	232(86.9)	280(86.7)	154(79.8)		233(93.6)	235(91.8)	428(92.0)	191(86.4)	
O2 prescribed					0.615					0.686
Yes	58 (23.4)	60 (22.5)	62 (19.2)	39 (20.2)		194 (77.9)	192(75.0)	346(74.4)	166(75.1)	
No	191 (76.7)	207 (77.5)	261 (80.0)	154(79.8)		52 (20.9)	59 (23.0)	116(24.9)	52 (23.5)	
Not Known	0 (0)	0 (0)	0 (0)	0 (0)		3 (1.2)	5 (2.0)	3 (0.6)	3 (1.4)	

Smoking					0.239					0.039
Current smoker	90 (36.1)	97 (36.3)	112(34.7)	61 (31.6)		108 43.4)	103 40.2)	174(37.4)	70 (31.7)	
Ex-Smoker	129(51.8)	145(54.3)	182(56.3)	110 (57)		127 (51)	120(46.9)	249(53.5)	134(60.6)	
Never smoked	3 (1.2)	4 (1.5)	10 (3.1)	8 (4.1)		3 (1.2)	9 (3.5)	10 (2.2)	3 (1.4)	
Not recorded during adm	27 (10.8)	21 (7.9)	19 (5.9)	14 (7.3)		11 (4.4)	24 (9.4)	32 (6.9)	14 (6.3)	
Consultant Discharge					0.165					0.068
Respiratory	149(73.4)	154 70.6)	194 79.5)	87 (79.1)		187(87.4)	187(87.4)	344(89.4)	124 88.6)	
Care of elderly	13 (6.4)	10 (4.6)	8 (3.3)	10 (9.1)		6 (2.8)	14 (6.5)	7 (1.8)	6 (4.3)	
GP	39 (19.2)	52 (23.9)	39 (16)	12 (10.9)		0 (0)	0 (0)	0 (0)	0 (0)	
Not recorded	1 (0.5)	2 (0.9)	2 (0.8)	1 (0.9)		21 (9.8)	13 (6.1)	34 (8.8)	10 (7.1)	
Other	1 (0.5)	0 (0)	1 (0.4)	0 (0)		0 (0)	0 (0)	0 (0)	0 (0)	
Early Support Discharge					0.001					0.054
Yes	73 (30.2)	82 (31.5)	90 (29.0)	29 (15.7)		102 41.0)	104(40.6)	183(39.4)	65 (29.4)	
Albumin										
Mean (SD)	37.8 (5.7)	38.2 (5.4)	37.3 (5.3)	36.8 (5.1)	0.085	38.8 (5.5)	38.2 (5.2)	37.4 (5.4)	37.9 (5.6)	0.020

Urea										
Mean (SD)	8.9 (5.4)	9.2 (5.8)	9.1 (6.2)	7.8 (5.2)	0.061	8.1 (7.8)	8.8 (6.2)	8.5 (6.6)	7.9 (5.2)	0.449