

Table 1: Characteristics of the patients who received NIV across the two audits period 2008 and 2014

Variable	Audit 2008 n=1032 n(%)	Audit 2014 n=1612 n(%)	P value
Age			<0.001
Mean (SD)	71.8 (10.4)	70.4 (10.1)	
Gender			0.386
Male	456 (44.2)	740 (45.4)	
Female	576 (55.8)	872 (54.1)	
Admission day of week			0.002
Sunday	145 (14.1)	256 (15.9)	
Monday	212 (20.5)	279 (17.3)	
Tuesday	154 (14.9)	242 (15)	
Wednesday	135 (13.1)	195 (12.1)	
Thursday	144 (14.0)	236 (14.6)	
Friday	150 (14.5)	186 (11.5)	
Saturday	92 (8.9)	218 (13.5)	
Length of stay (days)			<0.001
Mean (SD)	13.4 (13.9)	10.6 (10.0)	
Chest XR (consolidation)			<0.001
Yes	212 (20.5)	405 (25.1)	
Antibiotic received within 24 hours			<0.001
Yes	877 (85.0)	1472(91.2)	
O2 prescribed			<0.001
Yes	219 (21.2)	1212 (75.2)	
No	813 (78.8)	381 (23.6)	
Not Known	0 (0)	19 (1.2)	

Smoking			<0.001
Current smoker	360 (34.9)	610 (37.8)	
Ex-Smoker	566 (54.8)	850 (52.7)	
Never smoked	25 (2.4)	32 (2.0)	
Not recorded during adm	81 (7.8)	120 (7.4)	
First ABGs			0.871
No	12 (1.2)	20 (1.2)	
Yes	1014(98.3)	1592 (98.8)	
First ABGs result			
Ph	7.29 (0.1)	7.29 (0.11)	0.417
PCO2	9.47(3.01)	9.39 (3.07)	0.279
PO2	11.08(7.21)	9.28 (4.88)	<0.001
HCO3	30.15(6.87)	29.83(6.83)	0.251
Second ABGs			0.050
No	68 (6.6)	89 (5.5)	
Yes	840 (81.4)	1523 (94.5)	
Second ABGs result			
pH	7.29 (0.08)	7.29 (0.09)	0.035
PCO2	9.31 (2.57)	9.1 (2.62)	0.054
PO2	9.39 (4.58)	8.78 (3.98)	0.001
HCO3	30.1 (7.2)	29.6 (6.47)	0.098
Albumin			0.601
Mean (SD)	37.6 (5.4)	37.7 (5.6)	
Urea			0.066
Mean (SD)	8.8 (5.7)	8.4 (6.5)	
Consultant Discharge			<0.001
Respiratory	584 (75.4)	1114 (86.1)	

Care of elderly	41 (5.3)	50 (3.9)	
GP	142 (18.3)	1 (0.1)	
Not recorded	6 (0.8)	129 (10)	
Other	2 (0.3)	0 (0)	
Early Support Discharge			<0.001
Yes	274 (27.5)	596 (37.0)	
Other Significant condition			<0.001
No	233 (23.0)	253 (15.7)	
Yes	779 (77.0)	1359 (84.3)	
Inpatient death			<0.001
No	775 (75.1)	1341 (83.2)	
Yes	257 (24.9)	271 (16.8)	
Patients who received NIV*			0.001
< 60 mins after arrival	249 (24.1)	249 (20.9)	
60-179 mins after arrival	267 (25.9)	256 (21.5)	
3-24 hrs after arrival	323 (31.3)	465 (39.0)	
>24 hrs after arrival	193 (18.7)	221 (18.6)	
*n for 2014 data is 1191.			