

eAppendix 2: BASELINE DEMOGRAPHICS AND COVID-19 OUTCOMES AMONG HOSPITALIZED PATIENTS, n = 348

Variable	Sample Size Hospitalized	High Flow O2 (FIO2) N (%)		p-value	OR [95% CI]	p-value*	aOR*	Ventilator (INTUBATION)		p-value	OR [95% CI]	p-value*	aOR*	Death N (%)		p-value	OR [95% CI]	p-value*	aOR*
Hypertension																			
Yes	261 (75.0)	67 (25.7)	194 (74.3)	0.4736	1.24 [0.69, 2.21]	0.7812	0.92 [0.50, 1.70]	27 (10.3)	234 (89.7)	0.3451	1.56 [0.62, 3.91]	0.3751	1.55 [0.59, 4.08]	49 (18.8)	212 (81.2)	0.0408	2.28 [1.04, 5.03]	0.3992	1.43 [0.62, 3.28]
No	87 (25.0)	19 (21.8)	68 (78.2)		REF		REF	6 (6.9)	81 (93.1)		REF		REF	8 (9.2)	79 (90.8)		REF		REF
Diabetes																			
Yes	146 (41.9)	46 (31.5)	100 (68.5)	0.0131	1.86 [1.14, 3.05]	0.0195	1.81 [1.10, 2.98]	21 (14.4)	125 (85.6)	0.01	2.66 [1.26, 5.60]	0.0106	2.65 [1.26, 5.59]	28 (19.2)	118 (80.8)	0.2317	1.42 [0.80, 2.50]	0.2515	1.42 [0.78, 2.57]
No	202 (58.1)	40 (19.8)	162 (80.2)		REF		REF	12 (5.9)	190 (94.1)		REF		REF	29 (14.4)	173 (85.6)		REF		REF
Chronic Kidney Disease																			
Yes	79 (22.7)	31 (39.2)	48 (60.8)	0.0008	2.51 [1.46, 4.31]	0.0145	2.04 [1.15, 3.60]	10 (12.7)	69 (87.3)	0.2762	1.55 [0.70, 3.41]	0.3075	1.55 [0.70, 3.59]	22 (27.9)	57 (72.1)	0.0022	2.58 [1.41, 4.73]	0.1408	1.62 [0.85, 3.12]
No	269 (77.3)	55 (20.5)	214 (79.5)		REF		REF	23 (8.6)	246 (91.4)		REF		REF	35 (13.0)	234 (87.0)		REF		REF
Baseline HGBA1C																			
≥9	29 (10.5)	7 (24.1)	22 (75.9)	0.7656	0.87 [0.36, 2.14]	0.8049	0.89 [0.36, 2.20]	3 (10.3)	26 (89.7)	0.9761	0.98 [0.28, 3.47]	0.9663	0.97 [0.28, 3.44]	2 (6.9)	27 (93.1)	0.1331	0.32 [0.07, 1.41]	0.1396	0.32 [0.07, 1.44]
<9	247 (89.5)	66 (26.7)	181 (73.3)		REF		REF	26 (10.5)	221 (89.5)		REF		REF	46 (18.6)	201 (81.4)		REF		REF
Baseline HGBA1C																			
≥9	29 (10.5)	7 (24.1)	22 (75.9)	0.2284	1.06 [0.42, 2.68]	0.2135	1.09 [0.43, 2.78]	3 (10.3)	26 (89.7)	0.0752	1.52 [0.40, 5.83]	0.0755	1.51 [0.39, 5.79]	2 (6.9)	27 (93.1)	0.3031	0.34 [0.08, 1.51]	0.285	0.35 [0.08, 1.59]
6.5<9	91 (33.0)	30 (33.0)	61 (67.0)		1.64 [0.92, 2.91]		1.67 [0.94, 2.97]	15 (16.5)	76 (83.5)		2.60 [1.14, 5.94]		2.60 [1.14, 5.94]	18 (19.8)	73 (80.2)		1.13 [0.58, 2.18]		1.22 [0.62, 2.40]
<6.5	156 (56.5)	36 (23.1)	120 (76.9)		REF		REF	11 (7.1)	145 (92.9)		REF		REF	28 (18.0)	128 (82.0)		REF		REF
Obstructive Sleep Apnea																			
Yes	84 (24.1)	21 (25.0)	63 (75.0)	0.944	1.02 [0.58, 1.80]	0.4422	1.26 [0.70, 2.29]	10 (11.9)	74 (88.1)	0.3858	1.42 [0.65, 3.11]	0.3375	1.49 [0.66, 3.33]	18 (21.4)	66 (78.6)	0.1534	1.57 [0.85, 2.93]	0.0041	2.84 [1.39, 5.78]
No	264 (75.9)	65 (24.6)	199 (75.4)		REF		REF	23 (8.7)	241 (91.3)		REF		REF	39 (14.8)	225 (85.2)		REF		REF
Tobacco Use, Current																			
Yes																			
No					REF		REF				REF		REF				REF		REF
Baseline Obesity																			
Yes	177 (51.3)	43 (24.3)	134 (75.7)	0.78	0.93 [0.57, 1.52]	0.592	1.15 [0.69, 1.93]	19 (10.7)	158 (89.3)	0.4496	1.32 [0.64, 2.73]	0.3887	1.39 [0.66, 2.94]	24 (13.6)	153 (86.4)	0.1302	0.64 [0.36, 1.14]	0.9419	0.98 [0.52, 1.83]
No	168 (48.7)	43 (25.6)	125 (74.4)		REF		REF	14 (8.3)	154 (91.7)		REF		REF	33 (19.6)	135 (80.4)		REF		REF
BMI Range																			
<25	81 (23.6)	21 (25.9)	60 (74.1)	0.7837	1.93 [0.59, 6.24]	0.9003	1.25 [0.37, 4.24]	6 (7.4)	75 (92.6)	0.9213	0.96 [0.18, 5.07]	0.9057	0.87 [0.16, 4.84]	18 (22.2)	63 (77.8)	0.4776	2.19 [0.59, 8.14]	0.9678	0.85 [0.21, 3.49]
25-29.9	87 (25.4)	23 (26.4)	64 (73.6)		1.98 [0.62, 6.35]		1.43 [0.43, 4.74]	9 (10.3)	78 (89.7)		1.38 [0.28, 6.85]		1.29 [0.25, 6.56]	15 (17.2)	72 (82.8)		1.60 [0.42, 6.01]		0.73 [0.18, 3.00]
30-34.9	107 (31.2)	28 (26.2)	79 (73.8)		1.95 [0.62, 6.15]		1.59 [0.50, 5.10]	12 (11.2)	95 (88.8)		1.52 [0.32, 7.23]		1.44 [0.30, 6.98]	15 (14.0)	92 (86.0)		1.25 [0.33, 4.69]		0.78 [0.20, 3.05]
35-39.9	42 (12.2)	9 (21.4)	33 (78.6)		1.50 [0.41, 5.48]		1.21 [0.32, 4.49]	4 (9.5)	38 (90.5)		1.26 [0.22, 7.43]		1.20 [0.20, 7.17]	5 (11.9)	37 (88.1)		1.04 [0.23, 4.75]		0.61 [0.13, 2.96]
>40	26 (7.6)	4 (15.4)	22 (84.6)		REF		REF	2 (7.7)	24 (92.3)		REF		REF	3 (11.5)	23 (88.5)		REF		REF
Liver Disease																			
Yes	68 (19.5)	27 (39.7)	41 (60.3)	0.0017	2.47 [1.40, 4.34]	0.0008	2.67 [1.50, 4.76]	13 (19.1)	55 (80.9)	0.0036	3.07 [1.44, 6.55]	0.0035	3.10 [1.45, 6.61]	17 (25.0)	51 (75.0)	0.0346	2.0 [1.05, 3.80]	0.0058	2.65 [1.33, 5.30]
No	280 (80.5)	59 (21.1)	221 (78.9)		REF		REF	20 (7.1)	260 (92.9)		REF		REF	40 (14.3)	240 (85.7)		REF		REF
Cirrhosis																			
Yes	27 (7.8)	11 (40.7)	16 (59.3)	0.0491	2.26 [1.003, 5.07]	0.0735	2.11 [0.93, 4.78]	3 (11.1)	24 (88.9)	0.7639	1.21 [0.35, 4.27]	0.9061	1.19 [0.34, 4.21]	5 (18.5)	22 (81.5)	0.7547	1.18 [0.43, 3.25]	0.884	1.08 [0.38, 3.08]
No	321 (92.2)	75 (23.4)	246 (76.6)		REF		REF	30 (9.4)	291 (91.6)		REF		REF	52 (16.2)	269 (83.8)		REF		REF
Venousthromboembolism History																			
Yes	25 (7.2)	5 (20.0)	20 (80.0)	0.572	0.75 [0.27, 2.06]	0.5403	0.73 [0.26, 2.02]	2 (8.0)	23 (92.0)	0.7932	0.82 [0.18, 3.64]	0.7869	0.81 [0.18, 3.62]	6 (24.0)	19 (76.0)	0.2899	1.68 [0.64, 4.42]	0.2632	1.77 [0.65, 4.83]
No	323 (92.8)	81 (25.1)	242 (74.9)		REF		REF	31 (9.6)	292 (90.4)		REF		REF	51 (15.8)	272 (84.2)		REF		REF
Solid Tumor																			
Yes	34 (9.8)	9 (26.5)	25 (73.5)	0.8025	1.11 [0.50, 2.48]	0.771	0.89 [0.39, 2.01]	3 (8.8)	31 (91.2)	0.8902	0.92 [0.26, 3.18]	0.8401	0.88 [0.25, 3.10]	6 (17.7)	28 (82.3)	0.8335	1.11 [0.44, 2.80]	0.5679	0.76 [0.29, 1.97]
No	314 (90.2)	77 (24.5)	237 (75.5)		REF		REF	30 (9.6)	284 (90.4)		REF		REF	51 (16.2)	263 (83.8)		REF		REF
Leukemia/Lymphoma																			
Yes	13 (3.7)	4 (30.8)	9 (69.2)	0.6071	1.37 [0.41, 4.57]	0.764	1.21 [0.36, 4.07]	1 (7.7)	12 (92.3)	0.8228	0.79 [0.10, 6.27]	0.8048	0.77 [0.10, 6.14]	1 (7.7)	12 (92.3)	0.403	0.42 [0.05, 3.26]	0.2839	0.32 [0.04, 2.59]
No	335 (96.3)	82 (24.5)	253 (75.5)		REF		REF	32 (9.6)	303 (90.4)		REF		REF	56 (16.7)	279 (83.3)		REF		REF
Immunosuppression																			
Yes	16 (4.6)	5 (31.3)	11 (68.7)	0.5364	1.41 [0.48, 4.18]	0.5155	1.44 [0.48, 4.32]	3 (18.8)	13 (81.2)	0.2073	2.32 [0.63, 8.61]	0.2073	2.32 [0.63, 8.62]	2 (12.5)	14 (87.5)	0.6694	0.72 [0.16, 3.26]	0.7325	0.76 [0.16, 3.61]
No	332 (95.4)	81 (24.4)	251 (75.6)		REF		REF	30 (9.6)	302 (90.4)		REF		REF	55 (16.6)	277 (83.4)		REF		REF
HIV																			
Yes	17 (4.9)	4 (23.5)	13 (76.5)	0.9077	0.93 [0.30, 2.95]	0.7009	1.26 [0.39, 4.09]	0 (0.00)	17 (100.0)	0.9805	N/A	0.9805	N/A	2 (11.8)	15 (88.2)	0.6011	0.67 [0.15, 3.01]	0.788	1.24 [0.26, 5.87]
No	331 (95.1)	82 (24.8)	249 (75.2)		REF		REF	33 (10.0)	298 (90.0)		REF		REF	55 (16.6)	276 (83.4)		REF		REF
AIDS																			
Yes	3 (0.9)	0 (0.0)	3 (100.0)	0.9873	N/A	0.9873	N/A	0 (0.0)	3 (100.0)	0.9875	N/A	0.9876	N/A	0 (0.0)	3 (100.0)	0.9894	N/A	0.989	N/A
No	345 (99.1)	86 (24.9)	259 (75.1)		REF		REF	33 (9.6)	312 (90.4)		REF		REF	57 (16.5)	288 (83.5)		REF		REF
Prior Myocardial Infarction																			
Yes	25 (7.2)	6 (24.0)	19 (76.0)	0.9323	0.96 [0.37, 2.49]	0.78	0.87 [0.33, 2.28]	3 (12.0)	22 (88.0)	0.6563	1.33 [0.38, 4.71]	0.6747	1.31 [0.37, 4.66]	5 (20.0)	20 (80.0)	0.6124	1.3 [0.47, 3.63]	0.7881	1.16 [0.40, 3.30]
No	323 (92.8)	80 (24.8)	243 (75.2)		REF		REF	30 (9.3)	293 (90.7)		REF		REF	52 (16.1)	271 (83.9)		REF		REF
Coronary Artery Disease																			

Yes	53 (15.2)	19 (35.9)	34 (64.1)	0.0435	1.90 [1.02, 3.55]	0.1141	1.67 [0.89, 3.14]	8 (15.1)	45 (84.9)	0.1355	1.92 [0.82, 4.52]	0.148	1.90 [0.80, 4.54]	10 (18.9)	43 (81.1)	0.5954	1.23 [0.58, 2.61]	0.9778	0.99 [0.46, 2.15]
No	295 (84.8)	67 (22.7)	228 (77.3)		REF		REF	25 (8.5)	270 (91.5)		REF		REF	47 (15.9)	248 (84.1)		REF		REF
Congestive Heart Failure																			
Yes	62 (17.8)	22 (35.5)	40 (64.5)	0.0319	1.91 [1.06, 3.44]	0.131	1.60 [0.87, 2.93]	7 (11.3)	55 (88.7)	0.5926	1.27 [0.53, 3.08]	0.6397	1.24 [0.50, 3.07]	15 (24.2)	47 (75.8)	0.0697	1.85 [0.95, 3.61]	0.4435	1.32 [0.65, 2.65]
No	286 (82.2)	64 (22.4)	222 (77.6)		REF		REF	26 (9.1)	260 (90.9)		REF		REF	42 (14.7)	244 (85.3)		REF		REF
Cerebrovascular Accident/Transient Ischemic Attack																			
Yes	57 (16.4)	20 (35.1)	37 (64.9)	0.0492	1.84 [1.002, 3.39]	0.1557	1.57 [0.84, 2.92]	5 (8.8)	52 (91.2)	0.8413	0.90 [0.33, 2.45]	0.7895	0.87 [0.32, 2.40]	11 (19.3)	46 (80.7)	0.5156	1.27 [0.61, 2.64]	0.8896	0.95 [0.44, 2.02]
No	291 (83.6)	66 (22.7)	225 (77.3)		REF		REF	28 (9.6)	263 (90.4)		REF		REF	46 (15.8)	245 (84.2)		REF		REF
Hemiplegia																			
Yes	13 (3.7)	7 (53.9)	6 (46.1)	0.0199	3.78 [1.23, 11.58]	0.028	3.55 [1.15, 11.00]	2 (15.4)	11 (84.6)	0.465	1.78 [0.38, 8.41]	0.4775	1.76 [0.37, 8.31]	3 (23.1)	10 (76.9)	0.5093	1.56 [0.42, 5.86]	0.6254	1.41 [0.36, 5.57]
No	335 (96.3)	79 (23.6)	256 (76.4)		REF		REF	31 (9.3)	304 (90.7)		REF		REF	54 (16.1)	281 (83.9)		REF		REF
Peripheral Vascular Disease																			
Yes	22 (6.3)	9 (40.9)	13 (59.1)	0.0751	2.24 [0.92, 5.44]	0.1191	2.04 [0.83, 4.97]	6 (27.3)	16 (72.7)	0.0061	4.15 [1.50, 11.49]	0.0067	4.12 [1.48, 11.49]	7 (31.8)	15 (68.2)	0.05	2.58 [1.00, 6.64]	0.0806	2.37 [0.90, 6.23]
No	326 (93.7)	77 (23.6)	249 (76.4)		REF		REF	27 (8.3)	299 (91.7)		REF		REF	50 (15.3)	276 (84.7)		REF		REF
Peptic Uler Disease																			
Yes	21 (6.1)	6 (28.6)	15 (71.4)	0.6848	1.23 [0.46, 3.26]	0.9617	0.98 [0.36, 2.65]	2 (9.5)	19 (90.5)	0.9982	1.00 [0.22, 4.49]	0.9554	0.96 [0.21, 4.37]	4 (19.1)	17 (80.9)	0.7432	1.21 [0.39, 3.73]	0.7027	0.80 [0.25, 2.58]
No	325 (93.9)	80 (24.6)	245 (75.4)		REF		REF	31 (9.5)	294 (90.5)		REF		REF	53 (16.3)	272 (83.7)		REF		REF
Dementia																			
Yes	45 (12.9)	16 (35.6)	29 (64.4)	0.0738	1.84 [0.94, 3.58]	0.7901	1.11 [0.52, 2.38]	3 (6.7)	42 (93.3)	0.4926	0.65 [0.19, 2.23]	0.3524	0.53 [0.14, 2.02]	16 (35.6)	29 (64.4)	0.0004	3.53 [1.76, 7.05]	0.3841	1.44 [0.64, 3.25]
No	303 (87.1)	70 (23.1)	233 (76.9)		REF		REF	30 (9.9)	273 (90.1)		REF		REF	41 (13.5)	262 (96.5)		REF		REF
COPD/Asthma																			
Yes	64 (18.4)	20 (31.3)	44 (68.7)	0.1813	1.50 [0.83, 2.73]	0.1973	1.49 [0.81, 2.72]	6 (9.4)	58 (90.6)	0.9741	0.99 [0.39, 2.49]	0.9648	0.98 [0.39, 2.48]	10 (15.6)	54 (84.4)	0.8568	0.93 [0.44, 1.97]	0.8743	0.94 [0.44, 2.03]
No	284 (81.6)	66 (23.2)	218 (76.8)		REF		REF	27 (9.5)	257 (90.5)		REF		REF	47 (16.6)	237 (83.4)		REF		REF
Connective Tissue Disease																			
Yes	3 (0.9)	0 (0.0)	3 (100.0)	0.9873	N/A	0.9867	N/A	0 (0.0)	3 (100.0)	0.9875	N/A	0.9875	N/A	1 (33.3)	2 (66.7)	0.4422	2.58 [0.23, 28.95]	0.6043	2.01 [0.14, 28.38]
No	345 (99.1)	86 (24.9)	259 (75.1)		REF		REF	33 (9.6)	312 (90.4)		REF		REF	56 (16.2)	289 (83.8)		REF		REF
Active Substance Dependence																			
Yes	38 (10.9)	14 (36.8)	24 (63.2)	0.0699	1.93 [0.95, 3.92]	0.0238	2.32 [1.12, 4.83]	5 (13.2)	33 (86.8)	0.4156	1.53 [0.55, 4.22]	0.3888	1.57 [0.56, 4.38]	7 (18.4)	31 (81.6)	0.7188	1.17 [0.49, 2.82]	0.233	1.75 [0.70, 4.39]
No	310 (89.1)	72 (23.2)	238 (76.8)		REF		REF	28 (9.0)	282 (91.0)		REF		REF	50 (16.1)	260 (83.9)		REF		REF

* Age-adjusted OR and p-value for age-adjusted analysis