eAppendix 4: State, County, or Ward of Residence by Zip Code and Study Outcome by Median Income by Zip Code Code of Residence, n = 348

Variable	Sample Size Hospitalized	High Flow O2 (FIO2) N (%)		p-value	OR	p-value*	aOR*	Ventilator (INTUBATION)		p-value	OR	p-value*	aOR*	Death N (%)		p-value	OR	p-value*	aOR*
State of Residence		Yes	No					Yes	No					Yes	No				
Washington, DC	140 (40.2)	40 (28.6)	100 (71.4)		REF		REF	11 (7.9)	129 (92.1)		REF		REF	23 (16.4)	117 (83.6)		REF		REF
Maryland	155 (44.5)	35 (22.6)	120 (77.4)	0.5594	0.73 [0.43, 1.23]	0.7705	0.77 [0.45, 1.31]	17 (11.0)	138 (89.0)	0.6115	1.45 [0.65, 3.20]	0.5915	1.47 [0.66, 3.25]	29 (18.7)	126 (81.3)	0.4937	1.17 [0.64, 2.14]	0.6712	1.35 [0.72, 2.54]
Virgnia	22 (8.9)	4 (18.2)	18 (81.8		0.56 [0.18, 1.74]		0.68 [0.21, 2.19]	1 (4.6)	21 (95.5)		0.56 [0.07, 4.55]		0.59 [0.07, 4.82]	2 (9.1)	20 (90.9)		0.51 [0.11, 2.33]		0.73 [0.15, 3.58]
Other	31 (6.3)	7 (22.6)	24 (77.4)		0.73 [0.18, 1.74]		0.92 [0.36, 2.37]	4 (12.9)	27 (87.1)		1.74 [0.51, 5.87]		1.83 [0.53, 6.34]	3 (9.7)	28 (90.3)		0.55 [0.15, 1.94]		0.81 [0.22, 3.04]

Variable	Sample Size Hospitalized	High Flow O2 (FIO2) N (%)		p-value	OR	p-value*	aOR*	Ventilator (INTUBATION)		p-value	OR	p-value*	aOR*	Death N (%)		p-value	OR	p-value*	aOR*
County of Residence		Yes	No					Yes	No					Yes	No				
Alexandria, VA	3 (0.9)	0 (0.0)	3 (100.0)		N/A		N/A	0 (0.0)	3 (100.0)		N/A		N/A	0 (0.0)	3 (100.0)		N/A		N/A
Arlington, VA	2 (0.6)	0 (0.0)	2 (100.0)		N/A		N/A	0 (0.0)	2 (100.0)		N/A		N/A	0 (0.0)	2 (100.0)		N/A		N/A
Baltimore City, MD	4 (1.1)	0 (0.0)	4 (100.0)		N/A		N/A	0 (0.0)	4 (100.0)		N/A		N/A	0 (0.0)	4 (100.0)		N/A		N/A
Charles, MD	8 (2.3)	1 (12.5)	7 (87.5)		0.36 [0.04, 3.00]		0.46 [0.05, 3.94]	1 (12.5)	7 (87.5)		1.68 [0.19, 14.88]		1.77 [0.20, 15.95]	0 (0.0)	8 (100.0)		N/A		N/A
Fairfax, VA	10 (2.9)	1 (10.0)	9 (90.0)	0.9044	0.28 [0.03, 2.26]	0.7927	0.30 [0.04, 2.48]	0 (0.0)	10 (100.0)	0.9954	N/A	0.9937	N/A	1 (10.0)	9 (90.0)	0.8876	0.57 [0.07, 4.68]	0.9518	0.63 [0.07, 5.65]
Montogmery, MD	14 (4.0)	4 (28.6)	10 (71.4)		1.00 [0.30, 3.37]		1.40 [0.40, 4.91]	1 (7.1)	13 (92.9)		0.90 [0.11, 7.55]		0.97 [0.11, 8.25]	1 (7.1)	13 (92.9)		0.39 [0.05, 3.14]		0.72 [0.09, 6.05]
Other	31 (8.9)	7 (22.6)	24 (77.4)		0.73 [0.29, 1.83]		0.95 [0.37, 2.45]	4 (12.9)	27 (87.1)		1.74 [0.51, 5.87]		1.84 [0.53, 6.39]	3 (9.7)	28 (90.3)		0.55 [0.15, 1.94]		0.82 [0.22, 3.06]
Prince Georges, MD	129 (37.1)	30 (23.3)	99 (76.7)		0.76 [0.44, 1.31]		0.77 [0.44, 1.35]	15 (11.6)	114 (88.4)		1.54 [0.68, 3.50]		1.55 [0.69, 3.52]	28 (21.7)	101 (78.3)		1.41 [0.76, 2.60]		1.55 [0.81, 2.93]
Prince Williams, VA	7 (2.0)	3 (42.9)	4 (57.1)		1.88 [0.40, 8.76]		3.31 [0.67, 16.41]	1 (14.3)	6 (85.7)		1.96 [0.22, 17.72]		2.18 [0.23, 20.81]	1 (14.3)	6 (85.7)		0.85 [0.10, 7.38]		2.54 [0.27, 24.13]
Washington, DC	140 (40.2)	40 (28.6)	100 (71.4)		REF		REF	11 (7.9)	129 (92.1)		REF		REF	23 (16.4)	117 (83.6)		REF		REF

Variable	Sample Size Hospitalized	High Flow O2 (FIO2) N (%)		p-value	OR	p-value*	aOR*	Ventilator (INTUBATION)		p-value	OR	p-value*	aOR*	Death N (%)		p-value	OR	p-value*	aOR*
Geographic Area		Yes	No					Yes	No					Yes	No				
DC - Ward 1	3 (0.9)	0 (0.0)	3 (100.0)		N/A		N/A	0 (0.0)	3 (100.0)		N/A		N/A	0 (0.0)	3 (100.0)		N/A		N/A
DC - Ward 2	34 (9.8)	8 (23.5)	26 (76.5)		1.06 [0.33, 3.35]		0.88 [0.27, 2.86]	4 (11.8)	30 (88.2)		0.90 [0.21, 3.96]		0.89 [0.20, 3.97]	6 (17.7)	28 (82.4)		2.00 [0.46, 8.80]		1.49 [0.32, 6.89]
DC - Ward 3	1 (0.3)	1 (100.0)	0 (0.0)		N/A		N/A	0 (0.0)	1 (100.0)		N/A		N/A	0 (0.0)	1 (100.0)		N/A		N/A
DC - Ward 4	33 (9.5)	7 (21.2)	26 (78.8)		0.92 [0.28, 3.02]		0.68 [0.20, 2.31]	2 (6.1)	31 (93.9)		0.44 [0.07, 2.57]		0.43 [0.07, 2.60]	7 (21.2)	26 (78.8)		2.51 [0.59, 10.76]		1.49 [0.33, 6.80]
DC - Ward 5	13 (3.7)	5 (38.5)	8 (61.5)		2.14 [0.53, 8.68]		1.55 [0.37, 6.48]	1 (7.7)	12 (92.3)		0.56 [0.06, 5.58]		0.55 [0.05, 5.64]	3 (23.1)	10 (76.9)		2.80 [0.48, 16.2]		1.61 [0.26, 9.95]
DC - Ward 6	5 (1.4)	0 (0.0)	5 (100.0)		N/A		N/A	0 (0.0)	5 (100.0)		N/A		N/A	0 (0.0)	5 (100.0)		N/A		N/A
DC - Ward 7	25 (7.2)	10 (40.0)	15 (60.0)		2.29 [0.72, 7.30]		1.81 [0.55, 5.91]	3 (12.0)	22 (88.0)		0.92 [0.19, 4.56]		0.91 [0.18, 4.60]	5 (20.0)	20 (80.0)		2.33 [0.50, 10.91]		1.59 [0.32, 7.82]
DC - Ward 8	26 (7.5)	9 (34.6)	17 (65.4)	0.6594	1.82 [0.57, 5.83]	0.812	1.52 [0.47, 4.96]	1 (3.9)	25 (96.1)	0.7885	0.27 [0.03, 2.58]	0.7948	0.27 [0.03, 2.58]	2 (7.7)	24 (92.3)	0.3114	0.78 [0.12, 5.05]	0.6598	0.60 [0.09, 4.04]
PG - Central	28 (8.1)	4 (14.3)	24 (85.7)		0.57 [0.15, 2.21]		0.46 [0.12, 1.83]	2 (7.1)	26 (92.9)		0.52 [0.09, 3.08]		0.51 [0.09, 3.09]	3 (10.7)	25 (89.3)		1.12 [0.21, 6.06]		0.76 [0.13, 4.37]
PG - Inner Beltway	29 (8.3)	5 (17.2)	24 (82.8)		0.71 [0.20, 2.57]		0.60 [0.16, 2.20]	1 (3.5)	28 (96.5)		0.24 [0.03, 2.30]		0.24 [0.03, 2.29]	5 (17.2)	24 (82.8)		1.94 [0.42, 9.00]		1.57 [0.32, 7.56]
PG - North	35 (10.1)	8 (22.9)	27 (77.1)		1.02 [0.32, 3.22]		0.85 [0.26, 2.74]	4 (11.4)	31 (88.6)		0.87 [0.20, 3.82]		0.86 [0.19, 3.84]	7 (20.0)	28 (80.0)		2.33 [0.55, 9.95]		1.85 [0.42, 8.22]
PG - Rural	3 (0.9)	0 (0.0)	3 (100.0)		N/A		N/A	0 (0.0)	3 (100.0)		N/A		N/A	0 (0.0)	3 (100.0)		N/A		N/A
PG - South	34 (9.8)	13 (38.2)	21 (61.8)		2.12 [0.71, 6.31]		1.64 [0.54, 5.03]	8 (23.5)	26 (76.5)		2.08 [0.56, 7.74]		2.05 [0.53, 7.87]	13 (38.2)	21 (61.8)		5.78 [1.16, 22.90]		3.98 [0.95, 1664]
MD - Other	26 (7.5)	5 (19.2)	21 (80.8)		0.82 [0.23, 2.96]		0.83 [0.22, 3.05]	2 (7.7)	24 (92.3)		0.56 [0.09, 3.35]		0.56 [0.10, 3.35]	1 (3.9)	25 (96.1)		0.37 [0.04, 3.82]		0.39 [0.04, 4.13]
VA	22 (6.3)	4 (18.2)	18 (81.8)		0.76 [0.19, 3.01]		0.74 [0.18, 2.97]	1 (4.6)	21 (95.4)		0.32 [0.03, 3.09]		0.32 [0.03, 3.09]	2 (9.1)	20 (90.9)		0.93 [0.14, 6.11]		0.90 [0.13, 6.89]
Other U.S.	31 (8.9)	7 (22.6)	24 (77.4)		REF		REF	4 (12.9)	27 (87.1)		REF		REF	3 (9.7)	28 (90.3)		REF		REF

Variable	Sample Size Hospitalized	High Flow O2 (FIO2) N (%)		p-value	OR	p-value*	aOR*	Ventilator (INTUBATION)		p-value	OR	p-value*	aOR*	Death N (%)		p-value	OR	p-value*	aOR*
Geographic Area - DC		Yes	No					Yes	No					Yes	No				
DC - Ward 1	3 (2.1)	0 (0.0)	3 (100.0)		N/A		N/A	0 (0.0)	3 (100.0)		N/A		N/A	0 (0.0)	3 (100.0)		N/A		N/A
DC - Ward 2	34 (24.3)	8 (23.5)	26 (76.5)		REF		REF	4 (11.8)	30 (88.2)		REF		REF	6 (17.7)	28 (82.4)		REF		REF
DC - Ward 3	1 (0.7)	1 (100.0)	0 (0.0)		N/A		N/A	0 (0.0)	1 (100.0)		N/A		N/A	0 (0.0)	1 (100.0)		N/A		N/A
DC - Ward 4	33 (23.6)	7 (21.2)	26 (78.8)	0.8079	0.88 [0.28, 2.77]	0.8067	0.79 [0.25, 2.54]	2 (6.1)	31 (93.9)	0.9719	0.48 [0.08, 2.84]	0.9738	0.50 [0.08, 2.97]	7 (21.2)	26 (78.8)	0.944	1.26 [0.37, 4.23]	0.984	1.01 [0.28, 3.60]
DC - Ward 5	13 (9.3)	5 (38.5)	8 (61.5)		2.03 [0.52, 7.99]		1.80 [0.45, 7.19]	1 (7.7)	12 (92.3)		0.63 [0.06, 6.18]		0.65 [0.06, 6.61]	3 (23.1)	10 (76.9)		1.40 [0.29, 6.68]		1.09 [0.22, 5.51]
DC - Ward 6	5 (3.6)	0 (0.0)	5 (100.0)		N/A		N/A	0 (0.0)	5 (100.0)		N/A		N/A	0 (0.0)	5 (100.0)		N/A		N/A
DC - Ward 7	25 (17.9)	10 (40.0)	15 (60.0)		2.17 [0.70, 6.68]		2.06 [0.66, 6.42]	3 (12.0)	22 (88.0)		1.02 [0.21, 5.04]		1.05 [0.21, 5.21]	5 (20.0)	20 (80.0)		1.17 [0.31, 4.36]		1.07 [0.27, 4.19]
DC - Ward 8	26 (18.6)	9 (34.6)	17 (65.4)		1.72 [0.56, 5.34]		1.72 [0.55, 5.37]	1 (3.9)	25 (96.1)		0.30 [0.03, 2.86]		0.30 [0.03, 2.89]	2 (7.7)	24 (92.3)		0.39 [0.07, 2.11]		0.40 [0.07, 2.26]

Variable	Sample Size Hospitalized	High Flow O2 (FIO2) N (%)		p-value	OR	p-value*	aOR*	Ventilator (INTUBATION)		p-value	OR	p-value*	aOR*	Death N (%)		p-value	OR	p-value*	aOR*
Geographic Area - PG		Yes	No					Yes	No					Yes	No				
PG - Central	28 (21.7)	4 (14.3)	24 (85.7)		REF		REF	2 (7.1)	26 (92.9)		REF		REF	3 (10.7)	25 (89.3)		REF		REF
PG - Inner Beltway	29 (22.5)	5 (17.2)	24 (82.8)		1.25 [0.30, 5.23]		1.28 [0.30, 5.41]	1 (3.5)	28 (96.5)		0.46 [0.04, 5.43]		0.46 [0.04, 5.43]	5 (17.2)	24 (82.8)		1.74 [0.37, 8.07]		2.04 [0.41, 10.03]
PG - North	35 (27.1)	8 (22.9)	27 (77.1)	0.2207	1.78 [0.48, 6.66]	0.2727	1.81 [0.48, 6.85]	4 (11.4)	31 (88.6)	0.2041	1.68 [0.28, 9.90]	0.1965	1.68 [0.28, 9.92]	7 (20.0)	28 (80.0)	0.1273	2.08 [0.49, 8.94]	0.2017	2.41 [0.53, 10.92]
PG - Rural	3 (2.3)	0 (0.0)	3 (100.0)		N/A		N/A	0 (0.0)	3 (100.0)		N/A		N/A	0 (0.0)	3 (100.0)		N/A		N/A
PG - South	34 (26.4)	13 (38.2)	21 (61.8)		3.71 [1.05, 13.15]		3.58 [1.00, 12.77]	8 (23.5)	26 (76.5)		4.00 [0.77, 20.66]		4.10 [0.95, 1.04]	13 (38.2)	21 (61.8)		5.16 [1.29, 20.57]		5.21 [1.24, 21.93]

Variable	Sample Size Hospitalized	High Flow O2 (FIO2) N (%)		p-value	OR	p-value*	aOR*	Ventilator (INTUBATION)		p-value	OR	p-value*	aOR*	Death N (%)		p-value	OR	p-value*	aOR*

Median Income Quintile		Yes	No					Yes	No					Yes	No				
20th ($0-72,121)	70 (20.1)	22 (31.4)	48 (68.6)		REF		REF	5 (7.1)	65 (92.9)		REF		REF	8 (11.4)	62 (88.6)		REF		REF
40th ($72,122-80,542)	75 (21.6)	22 (29.3)	53 (70.7)		0.91 [0.45, 1.84]		0.88 [0.43, 1.80]	10 (13.3)	65 (86.7)		2.00 [0.65, 6.17]		1.99 [0.64, 6.14]	18 (24.0)	57 (76.0)		2.48 [0.99, 6.06]		2.43 [0.95, 6.20]
60th ($80,543-96,439)	64 (18.4)	16 (25.0)	48 (75.0)	0.2583	0.73 [0.34, 1.55]	0.2884	0.61 [0.28, 1.33]	4 (6.3)	60 (93.7)	0.5916	0.87 [0.22, 3.38]	0.5747	0.84 [0.21, 3.28]	13 (20.3)	51 (79.7)	0.1864	1.98 [0.76, 5.14]	0.311	1.47 [0.55, 3.97]
80th ($96,439-116,492)	70 (20.1)	14 (20.0)	56 (80.0)		0.55 [0.25, 1.18]		0.56 [0.26, 1.22]	8 (11.4)	62 (88.6)		1.68 [0.52, 5.41]		1.70 [0.53, 5.47]	9 (12.9)	61 (87.1)		1.14 [0.41, 3.16]		1.21 [0.42, 3.44]
100th ($116,492-242,610)	69 (19.8)	12 (17.4)	57 (82.6)		0.46 [0.21, 1.02]		0.46 [0.21, 1.05]	6 (8.7)	63 (91.3)		1.24 [0.36, 4.26]		1.25 [0.36, 4.31]	9 (13.0)	60 (87.0)		1.16 [0.42, 3.21]		1.17 [0.41, 3.35]

Variable	Sample Size Hospitalized	High Flow O2 (FIO2) N (%)		p-value	OR	p-value*	aOR*	Ventilator (INTUBATION)		p-value	OR	p-value*	aOR*	Death N (%)		p-value	OR	p-value*	aOR*
Median Income Quartile		Yes	No					Yes	No					Yes	No				
25th ($0-73,544)	93 (26.72)	26 (28.0)	67 (72.0)		REF		REF	6 (6.5)	87 (93.5)		REF		REF	13 (14.0)	80 (86.0)		**REF**		REF
50th ($73,545-91,310)	106 (30.5)	33 (31.1)	73 (68.9)	0.097	1.17 [0.63, 2.15]	0.191	1.05 [0.56, 1.96]	13 (12.3)	93 (87.7)	0.5149	2.03 [0.74, 5.57]	0.531	2.01 [0.73, 5.54]	26 (24.5)	80 (75.5)	**0.0347**	**2.00 [0.96, 4.17]**	0.1608	1.63 [0.76, 3.51]
75th ($91,311-112,496)	65 (18.7)	11 (16.9)	54 (83.1)		0.53 [0.24, 1.16]		0.54 [0.24, 1.19]	5 (7.7)	60 (92.3)		1.21 [0.35, 4.14]		1.21 [0.35, 4.16]	5 (7.7)	60 (92.3)		**0.51 [0.17, 1.52]**		0.52 [0.17, 1.58]
100th ($112,497-242,610)	84 (24.1)	16 (19.1)	68 (80.9)		0.61 [0.30, 1.23]		0.61 [0.30, 1.25]	9 (10.7)	75 (89.3)		1.74 [0.59, 5.11]		1.75 [0.59, 5.13]	13 (15.5)	71 (84.5)		**1.13 [0.49, 2.59]**		1.10 [0.46, 2.61]

Median Income Continuous				**0.0247**	**1.00 [1.00, 1.00]**	**0.0293**	**1.00 [1.00, 1.00]**			0.8609	1.00 [1.00, 1.00]	0.8502	1.00 [1.00, 1.00]			0.4914	1.00 [1.00, 1.00]	0.4872	1.00 [1.00, 1.00]
Units=10000				**0.0247**	**0.91 [0.84, 0.99]**	**0.0293**	**0.91 [0.84, 0.99]**			0.8609	1.01 [0.90, 1.13]	0.8502	1.01 [0.91, 1.13]			0.4914	0.97 [0.89, 1.06]	0.4872	0.97 [0.88, 1.06]

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