

Supplemental Digital Content 1. Univariate Analysis Results Associated with Palivizumab Treatment

		Palivizumab	Controls	
		N = 434	N = 415	P value
Age (months), Median (IQR)		6.2 (3.6, 11.2)	3.8 (1.8, 8.1)	<0.0001
N (%)	<3 months	78 (18.0)	173 (41.7)	
	3-6months	131 (30.2)	109 (26.3)	
	>6 months	225 (51.8)	133 (32.0)	
Sex: Male, N (%)		246 (56.7)	250 (60.2)	0.2932
Race/Ethnicity, N (%)				
White/non-Hispanic		214 (49.3)	175 (42.2)	0.0370
Hispanic		93 (21.4)	128 (30.8)	0.0018
Black		89 (20.5)	78 (18.8)	0.5308
Asian		11 (2.5)	12 (2.9)	
Other		27 (6.2)	22 (5.3)	
Gestational Age (weeks), Median (IQR)		29 (26, 33)	34 (31, 35)	<0.0001
N (%)	<29 wGA	198 (45.6)	69 (16.6)	
	29-31 wGA	75 (17.3)	38 (9.2)	
	32-34 wGA	90 (20.7)	170 (41.0)	
	35 wGA	20 (4.6)	82 (19.8)	

	≥36 wGA	50 (11.5)	55 (13.3)	
	N missing	1 (0.2)	1 (0.2)	
Birth weight (g), Median (IQR)		1300 (800, 2000)	2150 (1600, 2600)	<0.0001
N (%)	<500	5 (1.2)	0 (0)	
	500-999	141 (32.5)	37 (8.9)	
	1000-1499	90 (20.7)	52 (12.5)	
	1500-1999	74 (17.1)	67 (16.1)	
	2000-2500	56 (12.9)	131 (31.6)	
	>2500	51 (11.8)	103 (24.8)	
	N missing	17 (3.9)	25 (6.0)	
Multiple (versus Single) birth, N (%)		104 (24.0)	77 (18.6)	0.0546
Birth NICU admission, N (%)				
Yes, N (%)		371 (85.5)	285 (68.7)	<0.0001
No, N (%)		35 (8.1)	99 (23.9)	
N missing		28 (6.5)	31 (7.5)	
Duration of Birth NICU admission, Median (IQR)		64 (30, 104)	18 (10, 45)	<0.0001
N (%)	1-2 days	4 (0.9)	13 (3.1)	
	3-7days	9 (2.1)	47 (11.3)	
	8-14 days	32 (7.4)	61 (14.7)	

	>14 days	326 (75.1)	164 (39.5)	
	N missing	63 (14.5)	130 (31.3)	
Medical conditions (%)		328 (75.6)	152 (36.6)	<0.0001
N (%)	< 29 wGA	198 (45.6)	69 (16.6)	0.0018
	No CLD or CHD (\geq 29 wGA)	105 (24.2)	262 (63.1)	<0.0001
	29-31 wGA	37 (8.5)	30 (7.2)	
	32-34 wGA	58 (13.4)	155 (37.3)	
	35 wGA	10 (2.3)	77 (18.6)	
	Any CLD (\geq 29 wGA)	68 (15.7)	23 (5.5)	<0.0001
	Any CHD (\geq 29 wGA)	78 (18.0)	63 (15.2)	<0.0001
	Both CLD and CHD (\geq 29 wGA)	16 (3.7)	3 (0.7)	<0.0001
	N missing	1 (0.2)	1 (0.2)	
Number of Adults in household, Median (IQR)		2 (2, 3)	2 (2, 3)	0.3934
N (%)	0	-	-	-
	1	35 (8.1)	39 (9.4)	
	2	264 (60.8)	247 (59.5)	
	\geq 3	107 (24.7)	98 (23.6)	
	N missing	28 (6.5)	31 (7.5)	
Number of other children in household, Median (IQR)		2 (1, 2)	2 (1, 2)	0.2963

N (%)	0	82 (18.9)	65 (15.7)	
	1	116 (26.7)	124 (29.9)	
	2	112 (25.8)	101 (24.3)	
	≥3	95 (21.9)	94 (22.7)	
	N missing	29 (6.7)	31 (7.5)	
Total Number of Other People in Household, Median (IQR)		4 (3, 5)	4 (3, 5)	0.3165
N missing		30 (6.9)	31 (7.5)	
Age of other children in household, Median (IQR)		5 (2, 8)	4 (2, 8)	0.0420
<6 years		279 (64.3)	284 (68.4)	0.1001
6-12 years		145 (33.4)	127 (30.6)	0.2091
>12 years		57 (13.1)	49 (11.8)	
N missing		30 (6.9)	33 (8.0)	
Breastfed, N (%)				
Yes, N (%)		46 (10.6)	73 (17.6)	0.0026
No, N (%)		360 (82.9)	311 (74.9)	
N missing		28 (6.5)	31 (7.5)	
Daycare attendance, N (%)				
Yes, N (%)		39 (9.0)	40 (9.6)	0.7044
No, N (%)		367 (84.3)	344 (82.9)	

N missing	28 (6.5)	31 (7.5)	
Maternal Education in Grades, Mean (SD)	12.7 (2.7)	12.2 (2.8)	0.0215
N missing	88 (20.3)	93 (22.4)	
Maternal Age in Years, Mean (SD)	29.3 (7.6)	27.7 (7.2)	0.0012
N missing	39 (9.0)	42 (10.1)	
Mother employed, N (%)			
Yes, N (%)	130 (30.0)	135 (32.5)	0.3785
No, N (%)	269 (62.0)	243 (58.6)	
N missing	35 (8.1)	37 (8.9)	
Father employed, N (%)			
Yes, N (%)	272 (62.7)	262 (63.1)	0.434
No, N (%)	65 (15.0)	62 (14.9)	
N missing	97 (22.4)	91 (21.9)	
Family with Atopy, N (%)			
Yes, N (%)	130 (30.0)	141 (34.0)	0.9939
No, N (%)	256 (59.0)	228 (54.9)	
N missing	48 (11.1)	46 (11.1)	
Smoking in household, N (%)	147 (33.9)	152 (36.6)	0.4010

Timing of admission in relation to illness onset N (%)			0.1002
At illness onset- 24 hours	51 (11.8)	43 (10.4)	
>24 hours-72 hours	185 (42.6)	164 (39.5)	
≥72 hours	192 (44.2)	201 (48.4)	
N missing	6 (1.4)	7 (1.7)	
Timing of beginning of RSV season to admission, N (%)			0.3920
November 1-November 30	38 (8.8)	39 (9.4)	
December 1-December 31	62 (14.3)	50 (12.0)	
January 1-January 31	87 (20.0)	92 (22.2)	
February 1-February 28	105 (24.2)	122 (29.4)	
March 1-March 31	99 (22.8)	73 (17.6)	
April 1-April 30	43 (9.9)	38 (9.2)	
Year of RSV season			0.0297
Dec 2002 - Apr 2003	28 (6.5)	31 (7.5)	
Nov 2003 - Apr 2004	190 (43.8)	148 (35.7)	
Nov 2004 - Apr 2005	107 (24.7)	98 (23.6)	
Nov 2005 – Apr 2006	109 (25.1)	138 (33.3)	

wGA = weeks of gestational age; g = grams; IQR = interquartile range; NICU = neonatal intensive care unit; RSV = respiratory syncytial virus; CLD = chronic lung disease of prematurity; hsCHD = hemodynamically significant congenital heart disease; SD = standard deviation;