

TABLE 1 Baseline Characteristics and Risk Factors of Severe LRTI in Children Under Five Years of Age

Variables	Total patients (n = 2115)	Mild disease (n = 1553)	Severe disease (n = 562)	Unadjusted OR	<i>P-value</i>	Adjusted OR	<i>P-value</i>
Age (mo)	8.0 (4.0-20.0)	8.0 (3.0-20.0)	9.0 (4.0-20.0)	1.01 (0.99- 1.02)	.08	0.98 (0.97-0.99)	.01
Age (mo)					.02		
1-3	528 (25.0)	411 (26.5)	117 (20.8)	0.78 (0.58- 1.06)		1.94 (1.32-2.87)	.001
4-6	347 (16.4)	250 (16.1)	97 (17.3)	1.07 (0.77- 1.47)		1.73 (1.16-2.58)	.006
7-12	426 (20.1)	316 (20.3)	110 (19.6)	0.96 (0.70- 1.30)		1.44 (1.01-2.06)	.048
13-24	404 (19.1)	275 (17.7)	129 (23.0)	1.29 (0.95- 1.75)		1.66 (1.18-2.35)	.004
25-60	410 (19.4)	301 (19.4)	109 (19.4)	Reference		Reference	Referenc e
Gender				NI	.95	NI	NI

Male	1289 (60.9)	947 (61.0)	342 (60.9)				
Female	826 (39.1)	606 (39.0)	220 (39.1)				
Weight-for-height SDS	0.13 (−0.95- 1.03)	0.22 (−0.81-1.15)	−0.18 (−1.37-0.61)	0.82 (0.77- 0.87)	< .001	0.89 (0.84-0.96)	.001
Prematurity					< .001		
No	1650 (78.0)	1241 (79.9)	409 (72.8)	Reference		Reference	Referenc
Yes	465 (22.0)	312 (20.1)	153 (27.2)	1.48 (1.19- 1.86)		1.32 (1.02-1.72)	e .03
History of atopy					< .001		
No	1780 (84.9)	1356 (87.3)	424 (75.5)	Reference		Reference	Referenc
Yes	301 (14.5)	188 (12.1)	113 (20.1)	1.92 (1.48- 2.48)		1.69 (1.27-2.26)	e
Missing	34 (1.6)	9 (0.6)	25 (4.4)	—		—	< .001 -
Exposure to tobacco smoke					.02		
No	1212 (57.3)	913 (58.8)	299 (53.2)	Reference		Reference	Referenc

Yes	903 (42.7)	640 (41.2)	263 (46.8)	1.25 (1.03-1.52)	1.32 (1.06-1.65)	e .01
Underlying disease	817 (38.6)	510 (32.8)	307 (54.6)	2.46 (2.02-2.99)	< .001	
Healthy	1298 (61.4)	1043 (67.2)	255 (45.4)	Reference	Reference	Referenc
Previous history of LRTI	213 (10.1)	152 (9.8)	61 (10.9)	Reference	1.58 (1.07-2.34)	e .02
CLD	199 (9.4)	127 (8.2)	72 (12.8)	2.27)	2.15 (1.46-3.15)	
IS	175 (8.3)	105 (6.8)	70 (12.5)		2.63 (1.78-3.87)	< .001
CHD	118 (5.6)	67 (4.3)	51 (9.1)	2.31 (1.68-3.19)	3.51 (2.29-5.39)	< .001
NMD	112 (5.3)	59 (3.8)	53 (9.4)	3.19)	3.91 (2.51-6.09)	< .001
				2.72 (1.95-3.80)		< .001
				3.11 (2.11-4.59)		
				3.67 (2.47-5.45)		
Type of infection					< .001	

Single	1473 (69.6)	1173 (75.5)	300 (53.4)	Reference	Reference	Referenc
Co-infection	599 (28.3)	353 (22.7)	246 (43.8)	2.72 (2.21-	3.44 (2.74-4.53)	e
None-virus	43 (2.0)	27 (1.7)	16 (2.8)	3.34)	0.76 (0.23-4.92)	< .001
				0.81 (0.23-		.4
				4.35)		
Neutrophil status					< .001	
Normal range	1227 (58.0)	939 (60.4)	288 (51.2)	Reference	Reference	Referenc
Neutrophilia	702 (33.2)	469 (30.2)	233 (41.5)	1.63 (1.33-	1.71 (1.34-2.19)	e
Neutropenia	177 (8.4)	136 (8.8)	41 (7.3)	2.00)	0.93 (0.61-1.41)	< .001
Missing	9 (0.4)	9 (0.6)	0 (0)	0.99 (0.68-	–	.75
				1.44)		-
				–		
Lymphocyte status					< .001	
Normal range	1070 (50.6)	773 (49.7)	297 (52.8)	Reference	Reference	Referenc
Lymphocytosis	826 (39.1)	647 (41.7)	179 (31.9)	0.72 (0.58-	0.68 (0.53-0.87)	e
Lymphopenia	210 (9.9)	124 (8.0)	86 (15.3)	0.90)	1.88 (1.33-2.65)	.002
				1.82 (1.34-		< .001

Missing	9 (0.4)	9 (0.6)	0 (0)	2.47)		—	-
				—			
CRP value	0.7 (0.2-2.2)	0.07 (0.2-2.08)	1.0 (0.3-3.0)	1.06 (1.03-1.09)	< .001	1.05 (1.01-1.08)	.002

Data are number (%), median (interquartile range), or odds ratio (95% confidence interval).

Gender was not included in the model because of its P -value > .05.

Age was included in the model regardless of the P -value.

$N = 2115$ patients, within 38 missing values; 2077 patients were included in the multivariate analysis (adjusted $R^2 = .25$).

Neutrophil and lymphocyte status was categorized as their reference range for age.

OR, odds ratio; NI, not include; SDS, standard deviation score; LRTI, lower respiratory tract infection; CRP, c-reactive protein.