

Supplemental Digital Content 3, Table. Co-Detection of Organisms in NP/OP PCR Specimens Collected from both Cases and Controls, by CXR status

	All Cases N=525	CXR-positive Cases N=219	All Controls N=771	All Cases vs All Controls	CXR-positive Cases vs All Controls
Mean (SD) number of organisms, any positivity	3.95 (1.51)	3.99 (1.53)	4.06 (1.42)		
Median (IQR)	4.0 (3.0, 5.0)	4.0 (3.0, 5.0)	4.0 (3.0, 5.0)		
0	3 (0.6)	1 (0.5)	1 (0.1)	0.0757	0.1403
1	23 (4.4)	9 (4.1)	24 (3.1)		
2	71 (13.5)	33 (15.1)	77 (10.0)		
3	100 (19.0)	39 (17.8)	166 (21.5)		
4	328 (62.5)	137 (62.6)	503 (65.2)		
Mean (SD) number of organisms, above threshold	2.74 (1.38)	2.72 (1.41)	2.62 (1.39)		
Median (IQR)	3.0 (2.0, 4.0)	3.0 (2.0, 4.0)	2.0 (2.0, 3.0)		
0	13 (2.5)	7 (3.2)	34 (4.4)	0.6150	0.7788
1	85 (16.2)	35 (16.0)	129 (16.7)		
2	150 (28.6)	66 (30.1)	226 (29.3)		
3	135 (25.7)	50 (22.8)	195 (25.3)		
4	142 (27.0)	61 (27.9)	187 (24.3)		
Pathogen patterns, any positivity					
Single bacteria	8 (1.5)	6 (2.7)	15 (1.9)	<.0001	<.0001
2 or more bacteria	13 (2.5)	7 (3.2)	72 (9.3)		
Single virus	16 (3.0)	3 (1.4)	11 (1.4)		
2 or more viruses	29 (5.5)	18 (8.2)	7 (0.9)		
Bacterial-Viral	456 (86.9)	184 (84.0)	665 (86.3)		
Pathogen patterns, above threshold					
Single bacteria	19 (3.6)	11 (5.0)	76 (9.9)	<.0001	<.0001
2 or more bacteria	9 (1.7)	4 (1.8)	51 (6.6)		
Single virus	68 (13.0)	26 (11.9)	56 (7.3)		
2 or more viruses	80 (15.2)	40 (18.3)	37 (4.8)		
Bacterial-Viral	336 (64.0)	131 (59.8)	517 (67.1)		

Analysis population was restricted to cases and controls with available NPPCR data. P-values are from logistic regression adjusted for site and age (m).

NP/OP PCR thresholds: *P. jirovecii*, 4.0 log₁₀ copies/mL; *H. influenzae*, 5.9 log₁₀ copies/mL; CMV, 4.9 log₁₀ copies/mL; *S. pneumoniae*, 6.9 log₁₀ copies/mL.