

Supplementary table: Final multivariable model: Relationship between submicron bio-aerosol production and baseline characteristics across all groups

Risk factor	Number of study participants	Low particle-producers n (%)	High particle-producers n (%)	Crude odds ratio (95% CI)	Crude odds ratio p-value	Adjusted odds ratio ^a (95% CI)	Adjusted odds ratio p-value
Healthy/uninfected control	83	47 (51.1)	36 (39.1)	1		1	
Healthy/ <i>M.tuberculosis</i> -infected	27	17 (18.5)	10 (10.9)	0.7 (0.3 - 1.7)	0.449	0.7 (0.3 - 1.8)	0.436
Extra-thoracic tuberculosis	11	6 (6.5)	5 (5.4)	2.0 (0.7 - 5.3)	0.186	1.8 (0.6 - 5.3)	0.299
Intra-thoracic tuberculosis	63	22 (23.9)	41 (44.6)	1.9 (1.1 - 3.4)	0.033	1.8 (1.0 - 3.2)	0.068
Sex							
Male	81	39 (41.5)	55 (58.5)	1			
Female	107	42 (44.7)	52 (55.3)	1.0 (0.6 - 1.6)	0.847		
Age group							
18-29	70	38 (40.9)	32 (34.8)	1			
30-39	56	30 (32.3)	26 (28.3)	1.5 (0.8 - 2.9)	0.235		
40-49	38	16 (17.2)	22 (23.9)	1.7 (0.8 - 3.7)	0.144		
≥50	21	9 (9.7)	12 (13.0)	1.5 (0.7 - 3.1)	0.329		

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Ethnicity							
White	94	54 (58.7)	40 (44.0)	1			
Non-white	89	38 (41.3)	51 (56.0)	1.6 (0.9 - 2.7)	0.095		
Current smoking status							
Non-smoker	109	56 (59.6)	53 (56.4)	1			
Smoker	79	38 (40.4)	41 (43.6)	1.6 (0.9 - 2.7)	0.108		
Background bio-aerosol count (0.3 size) per 0.1 cubic foot of air							
<43001	40	27 (27.3)	19 (22.1)	1		1	
43001-80000	67	35 (45.5)	32 (37.2)	1.3 (0.7 - 2.3)	0.430	1.2 (0.6 - 2.3)	0.556
80001-120000	22	7 (9.1)	15 (17.4)	3.2 (1.4 - 7.2)	0.006	2.5 (1.1 - 5.8)	0.032
>120001	34	14 (18.2)	20 (23.3)	4.0 (1.9 - 8.4)	<0.001	4.1 (1.9 - 8.8)	<0.001
Season							
Winter	57	31 (33.0)	26 (27.7)	1		1	
Spring	30	13 (13.8)	17 (18.1)	2.1 (1.1 - 4.1)	0.025	1.1 (0.5 - 2.4)	0.784
Summer	47	18 (19.2)	29 (30.9)	2.3 (1.1 - 4.6)	0.026	1.7 (0.7 - 3.8)	0.212

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Autumn	54	32 (34.0)	22 (23.4)	0.8 (0.4 - 1.6)	0.570	0.7 (0.4 - 1.7)	0.501

^aadjusted for background bio-aerosol count ($\leq 0.3\mu\text{m}$ size) and seasonality; adjusted for clustering between repeat measurement sessions within individuals