

**Supplementary table S2.** Host and environmental characteristics in infant clusters present at the onset of ARI\* (swab A)

Cluster	A1	A2	A3	A4	A5	p value
(n = 165)	(n = 56)	(n = 51)	(n = 31)	(n = 14)	(n = 13)	
Age, months	7.2 [3.8-8.8]	7.4 [5.3-8.8]	7.3 [3.7-9.0]	7.2 [4.8-9.4]	5.7 [4.3-8.2]	0.920
Seasons						
Spring	13 (23.2)	12 (23.5)	7 (22.6)	3 (21.4)	5 (38.5)	0.807 <sup>†</sup>
Summer	4 (7.1)	<b>2 (3.9) ↓</b>	<b>5 (16.1) ↑</b>	1 (7.1)	1 (7.7)	0.364 <sup>†</sup>
Autumn	12 (21.4)	11 (21.6)	8 (25.8)	2 (14.3)	<b>5 (38.5) ↑</b>	0.650 <sup>†</sup>
Winter	27 (48.2)	26 (51.0)	11 (35.5)	8 (57.1)	<b>2 (15.4) ↓</b>	0.105 <sup>†</sup>
Sex, male	33 (58.9)	26 (51.0)	18 (58.1)	<b>11 (78.6) ↑</b>	7 (53.9)	0.609 <sup>†</sup>
Siblings	35 (62.5)	31 (60.8)	20 (64.5)	8 (57.1)	10 (76.9)	0.761 <sup>†</sup>
Caesarean section	6 (10.7)	8 (15.7)	6 (19.4)	3 (21.4)	2 (15.4)	0.835 <sup>†</sup>
Atopy	36 (64.3)	<b>39 (76.5) ↑</b>	<b>12 (38.7) ↓</b>	9 (64.3)	<b>11 (84.6) ↑</b>	0.008 <sup>‡</sup>
Childcare	13 (23.2)	9 (17.7)	7 (22.6)	3 (21.4)	<b>0 (0.0) ↓</b>	0.479 <sup>†</sup>
Breastfeeding	31 (55.4)	33 (64.7)	17 (54.8)	8 (57.1)	10 (76.9)	0.768 <sup>‡</sup>
ETS <sup>§</sup>	6 (10.7)	5 (9.8)	6 (19.4)	<b>4 (28.6) ↑</b>	3 (23.1)	0.355 <sup>†</sup>

\*ARI, acute respiratory tract infection. Data are presented as median [interquartile range] or n (%). Statistical analyses were performed using a Kruskal Wallis test for age and Fisher's exact test<sup>†</sup> or Chi-square test<sup>‡</sup> for categorical variables. Significant overrepresentation (bold letters, ↑) and significant underrepresentation (bold/italic letters, ↓) of presence of symptoms in the clusters was assessed by enrichment analysis. <sup>§</sup>ETS, environmental tobacco smoke exposure.