

Table S1. Comparison of demographic and temporal distribution characteristics between sequenced RSV-positive cases and all RSV-positive cases.

Variable	Sequenced RSV-positive (n=56)	Total cases RSV-positive (n=4,483)	P value
Age, years, mean $\pm$ SD	2.05 $\pm$ 1.84	1.95 $\pm$ 2.38	0.69
Age group, n (%)			
0–1	30 (53.57)	2228 (49.70)	0.74
1–3	15 (26.79)	1438 (32.08)	
3–7	9 (16.07)	728 (16.24)	
7–18	2 (3.57)	89 (1.99)	
Sex, n (%)			
Male	32 (57.14)	2832 (63.17)	0.35
Female	24 (42.86)	1651 (36.83)	
Year of detection, n (%)			
2021	9 (10.71)	957 (21.35)	0.24
2022	4 (12.50)	106 (2.36)	
2023	19 (33.93)	1490 (33.24)	
2024	24 (42.86)	1930 (43.05)	

Table S2.Clinical characteristics of patients with different genotypes and disease severity

Variable	RSV-A(n = 29)	RSV-B (n = 27)	<i>p</i> -value
Male/female	16/13	16/11	0.76
Hospital stays, days	6.41 ± 3.53	6.44 ± 5.32	0.98
Cough	27	25	1
Fever	21	17	0.23
Nasal congestion	10	10	0.84
Cough up phlegm	22	18	0.45
Wheeze	12	0	<0.00
Sneeze	1	0	1
Respiratory failure	0	1	0.97
Tachypnea	0	2	0.44
Severe	3	4	0.83
Ventilation requirement	2	3	0.93

Table S3.Clinical characteristics of patients with different RSV-A genotypes and disease severity

Variable	A.D.5(n = 4)	A.D.3(n = 25)	<i>p</i> -value
Cough	4	23	1
Fever	1	20	0.92
Nasal congestion	3	7	0.20
Cough up phlegm	3	19	1
Wheeze	3	9	0.36
Sneeze	0	1	1
Respiratory failure	0	0	/
Tachypnea	0	0	/
Severe	1	2	0.88
Ventilation requirement	0	2	1

Table S4.Clinical characteristics of patients with different RSV-B genotypes and disease severity

Variable	B.D.4.1(n = 6)	B.D.E.1 (n = 21)	<i>p</i> -value
Cough	6	19	1
Fever	3	14	0.79
Nasal congestion	2	8	1
Cough up phlegm	3	16	0.46
Wheeze	0	0	/
Sneeze	0	0	/
Respiratory failure	0	1	1
Tachypnea	0	2	1
Severe	2	2	0.43
Ventilation requirement	2	1	0.22

Table S5.The frequency of RSV infection alone and mixed infections with different numbers of viruses

Infection type	Number of cases
RSV	19
Co-infection with 1 pathogen	16
Co-infection with 2 pathogens	12
Co-infection with 3 pathogens	8
Co-infection with 4 pathogens	1

Table S6.The frequency of mixed viral infections in RSV patients

Pathogen name	Number of mixed infections
Streptococcus pneumoniae	12
Cytomegalovirus	9
Haemophilus influenzae	9
Moraxella catarrhalis	9
Staphylococcus aureus	8
Enterovirus	5
Rhinovirus	4