

Supplementary Table S1. The number of tests received by hospitalized pediatric and adult patients with *M. pneumoniae* infection from September to November 2023.

Number of patients	Children	Adult
<i>M. pneumoniae</i> PCR only	454	6
<i>M. pneumoniae</i> PCR with SARS-CoV-2 PCR only	1	3
<i>M. pneumoniae</i> PCR with respiratory viruses multiplex RT-PCR only	562	44
<i>M. pneumoniae</i> PCR, SARS-CoV-2 PCR, and respiratory viruses multiplex RT-PCR	32	46
Total number of tNGS performed	870	10
Total number of patients	1049	99

Supplementary Table S2. Multivariate analysis on factors associated with hospitalized adult patients infected with *M. pneumoniae*.

	Odds ratio	95% Confidence Interval	p-value
Female	0.544	0.304 – 0.974	0.040
Underlying medical condition	14.114	6.937 – 28.715	< 0.001
Fever	0.116	0.028 – 0.475	0.003
Fatigue	8.723	2.212 – 34.395	0.002
Shortness of breath	-	-	0.119
Headache	-	-	0.052
Sore throat	-	-	0.802
Chest X-ray showing pulmonary infiltrates	-	-	0.054
CRP level	1.047	1.036 – 1.058	< 0.001
Other respiratory pathogens detected by tNGS or pathogen-specific PCR	0.048	0.011 – 0.221	< 0.001

Remarks: Odds ratio > 1 suggests that factor is more associated with adult patients.