All hospitalized patients
n=353 families
n=356 children n=361 Adults
(April 12 2022 to April 30 2022)

Pediatric patients
1. under 3 years old
2. Infected with COVID-19 (Ct<35)
3. No comorbidities
4. With parents accompanied
n=238

Parents n=35:
1. Uninfected Parents n=4
2. Parents with comorbidities n=22
3. Grandparents n=9

Matched family number
(1 Parent : 1 children)
n=203

1. Clinical information analyses
2. Consecutive PCR test results
3. Deviation Ct value calculation
4. Days requiring isolation (DRI) calculation

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Supplementary Figure 1: Patients enrollment flowchart.

Supplementary Table 1: Clinical characteristics of COVID-19 infected children and 1：1 matched parent.

Variables	Children ($N = 203$)	Parents ($N = 203$)
Gender,n (%)		
Male	122 (60.1)	42 (20.7)[†]
Age (years)		
Mean (SD)	1.3 (0.8)	32.3 (5.2)
Symptom,n (%)		
Fever	198 (97.5)	158 (77.8)
Cough	128 (63.1)	164 (80.8)

Diarrhea	23 (11.3)	20 (9.9)
Vomiting	32 (15.8)	14 (6.9)[*]
Running nose	13 (6.4)	22 (10.8)
Febrile seizures	3 (1.5)	0 (0)
Severity, *n* (%)		
Mild	137 (67.5)	202 (99.5)[†]
Moderate	66 (32.5)	0 (0)[†]
Severe/critical	0 (0)	0 (0)
Asymptomatic	0 (0)	1 (0.5)
Vaccination,*n* (%)[‡]		
0	203 (100)	85 (41.9)
1	0	14 (6.9)
2	0	61 (30.0)
3	0	43 (21.2)

[*]Compared to children $P < 0.05$. [†]Compared to children $P < 0.001$.[‡]Inactivated vaccines include CoronaVac (Sinovac), Covilo (Sinopharm, Beijing), and Inactivated (Vero cells) (Sinopharm, Wuhan). Two shots as full vaccination and three shots as a booster.IQR: Interquartile range; SD: Standard deviation.