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Supplemental Information

Laboratory Diagnosis and Monitoring the Viral

Shedding of SARS-CoV-2 Infection

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Figure S1. Serial detection of viral RNA in 7 COVID-19 cases from whom SARS-CoV-2 RNA was not detected in the upper respiratory specimens for at least the first 3 times. Numbers of cases from severe and mild groups were marked in red and black, respectively. The detection results of samples from upper respiratory tract were in green, and lower respiratory tract in black. Lower cycle threshold (Ct) values indicate higher viral loads. The black and red arrows indicate hospital admission and the start of antiviral treatment, respectively.

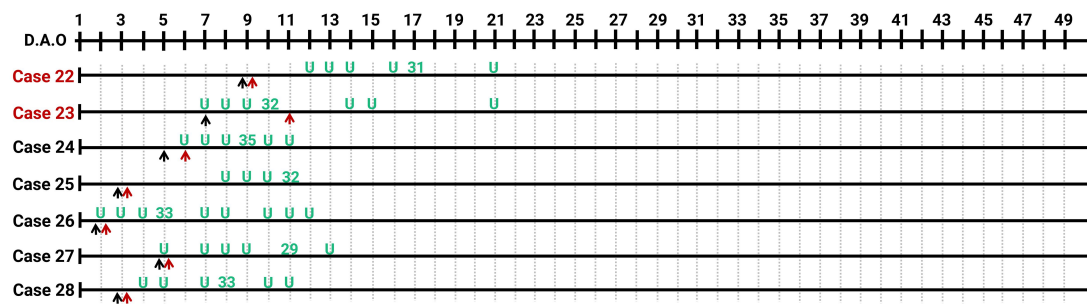


Table S1. Epidemiological and clinical characteristics of twelve cases from whom SARS-CoV-2 RNA was not detected in the upper respiratory specimens for at least the first three times.

Case No.	Group	Sex	Age	Initial symptoms	Underling diseases	Exposure history	Indexes of lung injury	
							PiO ₂ /FiO ₂	Murray score
Case 02	S	Female	65	Fever, cough, myalgia, chill and diarrhea	Hypertension	Travelled to Wuhan	227	1.75
Case 04	S	Male	63	Fever	Asthma	Travelled to Wuhan	83	3.75
Case 06	S	Male	47	Fever, cough, myalgia	No	Unknown	403	2.25
Case 07	S	Male	34	Fever, Myalgia and diarrhea	No	Lived in Wuhan	328	1.5
Case 21	M	Male	36	Cough and diarrhea	No	Travelled to Wuhan with case 02	440	0.75
Case 22	S	Female	76	Fatigue	Hypertension, Diabetes	Lived in Wuhan	188	1.25
Case 23	S	Male	56	Fever	No	Close contact	212	1
Case 24	M	Male	10	No symptoms	No	Travelled to Wuhan with case 02	633	0.75
Case 25	M	Male	61	Fever and cough	Hypertension	Lived in Huanggang	340	1
Case 26	M	Female	26	Fever	No	Lived in Wuhan	NA	NA
Case 27	M	Male	48	Fever and headache	No	Close contact	334	1.25
Case 28	M	Female	73	Fever and diarrhea	Diabetes	Lived in Wuhan	438	1

NA: Not available.

Huanggang: A city in Hubei province with a distance of about 70 miles away from Wuhan.