

## Electronic Supplementary Material

### Detection of SARS-CoV-2 RNA in Medical Wastewater in Wuhan during the COVID-19 Outbreak

Jun-Bo Zhou<sup>1#</sup> • Wen-Hua Kong<sup>1#</sup> • Sheng Wang<sup>1</sup> • Yi-Bing Long<sup>1</sup> • Lian-Hua Dong<sup>2</sup> • Zhen-Yu He<sup>1</sup>✉ • Man-Qing Liu<sup>1</sup>✉

1. Wuhan Center for Disease Control and Prevention, Wuhan, Hubei 430024, China

2. National Institute of Metrology, Beijing100013, China

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**Fig. S1** Strengthened and continuous disinfection of wastewater from COVID-19 healthcare facilities in Wuhan. Wastewater from designated hospitals, Fangcang shelter hospitals, and community quarantine spots was disinfected by Wuhan Water Bureau. The sodium chlorate in the large white container was added into the sewage network through continuous drip. The infusion rate was adjusted according to the patient number of the hospital nearby. The evaluation of disinfection effectiveness and environmental surveillance were performed at the same time.

**Table S1** The three-layer COVID-19 healthcare facility system in Wuhan

Facility type*	Objective patients	Facilities No. in Wuhan	Beds provided (data on Feb 29, 2020)	Healthcare personnel
Designated hospitals	COVID-19 patients in severe or critical conditions	48	26911 (6704 vacant)	
Fangcang shelter hospitals	Patients with mild symptoms	16	13467 (7255 vacant)	4 doctors and 12 nurses per 50 patients
Community quarantine spots	Isolation and health monitor of recovered patients, suspected patients and close contacts	>100	11172 (7482 vacant)	1 doctor and 1 nurse for about 25 patients

\*A three-layer COVID-19 healthcare facility system was built in Wuhan early in 2020 to meet the huge medical need caused by COVID-19 outbreak: 48 hospitals were requisitioned or newly constructed as the designated hospitals for COVID-19 patients in severe or critical conditions; sports stadiums and exhibition centers were renovated into 14 Fangcang shelter hospitals, offering 12,000 beds to treat patients with mild symptoms; and over 100 community quarantine spots were established for the isolation and health monitoring of recovered patients, suspected patients and close contacts. The Fangcang shelter hospital only admitted patients aged between 18 and 65 with the ability to care for themselves and without other respiratory diseases, cardiovascular and cerebrovascular diseases or mental diseases. The patients admitted should also be tested negative for influenza virus at the same time. Similar Fangcang shelter hospitals have also been launched in many countries facing explosive COVID-19 related medical needs.