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The Journal of Biomedical Research, 2019 0(0): 1-2

Supplementary Data

Estimation of the actual disease burden of human H7N9 infection in Jiangsu of eastern China from March 2013 to September 2017

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Steps	Parameters	
A. Proportion of medical consultation	Not hospitalized: According to the published reports on health care seeking rate for ILI (influenza like illness) in Chinese populations, the range of proportion was set to be 0.41–0.85 ^[1-3] . Hospitalized: Only patients who seek health care could be hospitalized, so the proportion was set to be 1.	
B. Proportion of sampling in health care seekers	Not hospitalized: According to our provincial surveillance data in 2016, a total of 417 116 ILI patients were reported from 9 sentinel hospitals, of whom, 30 143 patients were sampled and tested for influenza virus. Thus, the proportion could be 10 to 0.07. On the other hand, there are about 31 037 medical facilities in Jiangsu in 2016. Sentinel hospitals only occurred for 0.0009. Thus, the proportion could be as low as $0.07 \times 0.0009 \approx 0$. To sum up, the range of proportion was see to be 0–0.07. It is a constructed for 0.0009 and 10 to 0.0009 and 10 to 0.0009 and 10 to 0.0009. Thus, the proportion data, from October 2016 to April 2017, about 2 629 SARI (severe accessifications) patients were reported in Suzhou city of Jiangsu province. Among them, 561 patients were sampled and tested for influenza virus. Thus, the proportion could be up to 0.21. In 2016, 29 sentinel hospitals reported 37 9 ospitalized pneumonia patients in Jiangsu. Among them, 1 587 patients were sampled and tested for influenza virus. The ampling rate was 0.04. As sentinel hospitals only accounted for 5% of all secondary and tertiary hospitals (n =540). Troportion could be as low as $0.04 \times 0.05 = 0.002$. Thus, the range of proportion was set as $0.002 = 0.21$.	
C. Proportion of samples sent for testing	As only tested samples were included in the statistic of parameter B, the proportion here was set to be 1.	
D. Laboratory detection of H7N9	Use defaults (90%–100%).	
E. Reporting of confirmed cases	Use defaults (95%–100%).	

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Received 11 December 2018, Revised 29 January 2019, Accepted 28 February 2019, Epub 18 April 2019

CLC number: R511.7, Document code: A

The authors reported no conflict of interests.

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upplementary Table 2 Life expectancy table of Jiangsu population, 2015			
Age group (year)	Life expect	ctancy (year) Female	
<1	78.83	83.44	
1–4	78.15	82.73	
5–9	74.26	78.82	
10–14	69.32	73.86	
15–19	64.37	68.90	
20–24	59.45	63.94	
25–29	54.55	59.00	
30–34	49.68	54.06	
35–39	44.81	49.14	
40–44	40.00	44.24	
45–49	35.28	39.39	
50–54	30.68	34.63	
55–59	26.22	29.94	
60–64	21.97	25.36	
65–69	17.97	20.93	
70–74	14.29	16.75	
75–79	11.09	12.98	
80-84	8.47	9.77	

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