

Supplementary Material S7

Timeline of events on Diamond Princess cruise ship

Date	Event	Notes
17 January 2020	<ul style="list-style-type: none"> Hong-Kong case arrives to Japan 	Yamagishi 2020
19 January 2020	<ul style="list-style-type: none"> Index case developed symptoms; he disembarked on D5, and tested RT-PCR positive on 1 Feb 2020 (13 days later) Index case (Hong Kong case) – onset of cough 	NIID 2020 Yamagishi 2020
20 January 2020 – D0	<ul style="list-style-type: none"> The ship left Yokohama Port The 80-year-old Chinese gentleman, a resident of Hong Kong, China, visited Shenzhen in China's Guangdong Province for a few hours on January 10 (Nakazawa 2020). He took a flight from Hong Kong to Tokyo with his two daughters on 17 January 2020 and they embarked on the cruise ship in Yokohama, Tokyo on 20 January 2020 (Leung 2020) 	https://wars.vote4.hk/en/cases/
21 January – D1	<ul style="list-style-type: none"> N/R 	
22 January – D2	<ul style="list-style-type: none"> Passenger developed symptoms Kagoshima tour + bus The index case participated in a tour of Kagoshima, Japan during a shore-based stop (Yamagishi 2020) Other than the Hong Kong-related index case, symptom onset for the earliest confirmed case was 22 January 	Kakimoto 2020 Plucinski 2020 Yamagishi 2020 Yamagishi 2020
23 January – D3	<ul style="list-style-type: none"> Index case developed fever? Index case developed cough? 	Kakimoto 2020 Sekizuka 2020
24 January – D4	<ul style="list-style-type: none"> N/R 	
25 January – D5	<ul style="list-style-type: none"> Hong Kong tour + bus Index case disembarked in Hong Kong The ship visited Hong Kong 	Plucinski 2020 NIIDS 2020 Yamagishi 2020
26 January – D6	<ul style="list-style-type: none"> N/R 	
27 January – D7	<ul style="list-style-type: none"> Chan May Port, Vietnam tour + bus 	Nakazawa 2020, Yamagishi 2020; Plucinski 2020
28 January – D8	<ul style="list-style-type: none"> Cai Lan, Vietnam 	Nakazawa 2020
29 January – D9	<ul style="list-style-type: none"> 1 patient with symptoms 	Kato 2020

	<ul style="list-style-type: none"> • Index case – fever 	Hoshino 2020
30 January – D10	<ul style="list-style-type: none"> • Index case – developed fever • Index case - attended a local hospital in Hong Kong 	Yamahata 2020
31 January – D11	<ul style="list-style-type: none"> • Keelung, Taiwan 	Yamagishi 2020
1 February – D12	<ul style="list-style-type: none"> • Naha, Japan; Okinawa port • The Diamond Princess stops at Okinawa. A quarantine of the Diamond Princess (based on Quarantine Law) was ordered at Okinawa Port • Index case – RT-PCR positive for SARS-COV-2 • Symptom onset date of the first crew member case was 1 February 	<p>Nakazawa 2020; Yamagishi 2020</p> <p>NIID 2020; Sekizuka 2020 Yamagishi 2020</p>
2 Feb – D13	<ul style="list-style-type: none"> • First crew member with symptoms (food service worker (Kakimoto 2020) • 2 patients developed symptoms 	<p>Kakimoto 2020</p> <p>Kato 2020</p>
3 Feb – D14	<ul style="list-style-type: none"> • The ship arrived at Yokohama • On board: 2666 passengers, 1045 crew • Quarantine of the ship • Health authorities in Japan reviewed logs at the onboard clinic for symptomatic (febrile or respiratory) patients and obtained respiratory specimens from them • Starting on 3 Feb, quarantine officers took oropharyngeal samples from suspected cases and close contacts • All symptomatic passengers were tested upon arrival in Yokohama (10 passengers), and those with positive results were disembarked February 4 and 5 • 3 crew members reported fever • Group activities – music show, other shows 	<p>NIID 2020</p> <p>NIID 2020</p> <p>Nakazawa 2020</p> <p>NIID 2020</p> <p>Yamagishi 2020</p> <p>Kakimoto 2020</p> <p>Kakimoto 2020</p> <p>Plucinski 2020</p>
4 Feb – D15	<ul style="list-style-type: none"> • First crew member with positive RT-PCR • Group activities – music show, other shows 	<p>Kakimoto 2020</p> <p>Plucinski 2020</p>
5 Feb – D16	<ul style="list-style-type: none"> • 35/127 passengers with known onset, developed symptoms before D16 • First 10/31 RT-PCR positive • Passengers quarantined in their cabins for 14 days; the crew continued to maintain ship functions and support passengers for their food, clothing, and shelter-related needs • Screening for the virus is implemented in the aged or people with chronic disease, even if asymptomatic 	<p>NIID 2020</p> <p>Plucinski 2020, Yamahata 2020</p> <p>NIID 2020</p> <p>Nakazawa 2020</p>

	<ul style="list-style-type: none"> First peak of symptomatic cases among crew peaked (for cases with an available onset date, in 127 passengers and 51 crew 	NIID 2020
12 Feb – D23	<ul style="list-style-type: none"> 39/53 RT-PCR positive Total number of positive tests: 174/492 	Yamahata 2020 Yamahata 2020
13 Feb – D24	<ul style="list-style-type: none"> A policy allows the aged to disembark, specifically, older people over the age of 80 years who are in cabins without windows and suffer from chronic illness Total number of positive tests: 218/713 44/221 RT-PCR positive Second peak of symptomatic cases among crew (for cases with an available onset date, in 127 passengers and 51 crew 	Nakazawa 2020 Yamahata 2020 Yamahata 2020 NIID 2020
14 Feb – D25	<ul style="list-style-type: none"> 67/217 RT-PCR positive Total number of positive tests: 285/930 	Yamahata 2020 Yamahata 2020
15 Feb – D26	<ul style="list-style-type: none"> Total number of positive tests: 285/930 15-17 Feb 2020 – 169/793 RT-PCR positive tests 15-17 Feb 2020 - pharyngeal specimens of 896 persons (880 passengers, 15 crew members, and 1 quarantine officer). PCR (RT-qPCR) test was positive for 148 individuals (138 passengers, 9 crew members, and 1 quarantine officer), indicating that the positivity rate was 16.4% (147 positive individuals [excluding the officer] of 895 subjects). 	Yamahata 2020 Yamahata 2020 Sekizuka 2020
16 Feb – D27	<ul style="list-style-type: none"> 70/289 RT-PCR positive Total number of positive tests: 335/1219 16 -23 February – 329 persons were repatriated by air to their home country (USA); they entered quarantine or isolation. Quarantine was used for persons who were exposed; isolation was used for persons who had positive test results for SARS-CoV-2 16–17 February, most Americans were repatriated voluntarily to the United States on chartered flights and quarantined under federal authority on US military bases 	Yamahata 2020 Yamahata 2020 Moriarty 2020 Plucinski 2020
17 Feb – D28	<ul style="list-style-type: none"> 99/504 RT-PCR positive Total number of positive tests: 454/1723 Evacuation of Australian passengers 	Yamahata 2020 Yamahata 2020 Quigley 2020
18 Feb – D29	<ul style="list-style-type: none"> 88/681 RT-PCR positive 	Yamahata 2020

	<ul style="list-style-type: none"> Total number of positive tests: 542/2404 	Yamahata 2020
19 Feb – D30	<ul style="list-style-type: none"> End of quarantine period Disembarkation begins of passengers confirmed as not being infected Criteria for disembarkation of non-cases included 1) completion of a 14-day period without sharing a cabin with a confirmed case; 2) a negative result for a SARS-CoV-2 by PCR in the final days of the period; and 3) no relevant symptoms identified during a medical screening in the final day of the period. 79 RT-PCR positive 79/617 RT-PCR positive Total number of positive tests: 621/3011 Repatriation of Australian citizens 	NIID 2020 Nakazawa 2020 NIID 2020 NIID 2020 Yamahata 2020 Yamahata 2020
20 Feb – D31	<ul style="list-style-type: none"> 13/52 RT-PCR positive Total number of positive tests: 634/3063 Hong Kong citizens were air-evacuated from the Diamond Princess cruise ship on February 20 and February 21, 2020 	Yamahata 2020 Yamahata 2002 Hung 2020
21 Feb – D32	<ul style="list-style-type: none"> Total no of positive tests: 634/3063 Infection had also been confirmed in 5 quarantined officers and health care workers Disembarkation of 970 asymptomatic passengers with negative test results is completed 	Yamahata 2020 Nakazawa 2020 Nakazawa 2020
22 Feb – D33	<ul style="list-style-type: none"> Approximately 1300 people, including crew members, foreigners waiting for charter aircraft, and passengers who were in close contact with or in the same room as a person who tested positive, are aboard Total number of positive tests: 634/3063 	Nakazawa 2020 Yamahata 2020
23 Feb – D34	<ul style="list-style-type: none"> 57/831 RT-PCR positive (Yamahata 2020) Total no of positive tests: 691/3894 (Yamahata 2020) 	Yamahata 2020 Yamahata 2020
24 Feb – D35	<ul style="list-style-type: none"> The remaining passengers disembark. 	
25 Feb – D36	<ul style="list-style-type: none"> N/R 	
26 Feb – D37	<ul style="list-style-type: none"> N/R 	
27 Feb – D38	<ul style="list-style-type: none"> N/R 	
28 Feb - D39	<ul style="list-style-type: none"> N/R 	
29 Feb – D40	<ul style="list-style-type: none"> N/R 	

1 March – D41	<ul style="list-style-type: none"> Disembarkation of 3711 individuals completed. The remaining crew members disembark. 	Moriarty 2020
8 March	<ul style="list-style-type: none"> Total number of cases: 697 Total number of cases: 696 	Sekizuka 2020 NIID 2020

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