



Letters

Lack of COVID-19 transmission on an international flight

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In response to the *CMAJ* news article, “Communication, transparency key as Canada faces new coronavirus threat,”¹ we would like to share the public health response to the first Canadian cases of coronavirus disease 2019 (COVID-19). Case details have been published.² The patients travelled from Wuhan to Guangzhou, then Guangzhou to Toronto, Canada, arriving on Jan. 22, 2020. The index patient was symptomatic with dry cough during the flight. His wife developed cough on Jan. 23. Both sets of throat and nasopharyngeal swabs collected were positive for COVID-19.

There were approximately 350 passengers on board the airplane. The public was notified through the media that the index case was symptomatic during the 15-hour flight. Close contacts included 25 individuals sitting within 2 m of the index case during the flight, flight crew members, and 1 close contact on arrival in Toronto. Close contacts received active daily contact monitoring by local public health officials for 14 days from the flight’s arrival in Toronto. Passengers and crew members who were not from Ontario were referred to their home jurisdictions for follow-up. On Jan. 29, 1 close contact developed symptoms of cough; however, nasopharyngeal and throat swabs were negative for COVID-19. Non-close-contact passengers were advised to self-monitor and contact public health if they became symptomatic; 5 of these passengers became symptomatic, were tested and found by nasopharyngeal and throat swabs to be negative for COVID-19.

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both severe acute respiratory syndrome–associated coronavirus (SARS-CoV) and influenza, approximately 50% of airplane transmission occurred beyond these rows.⁴

Studies of airplane transmission are commonly biased by contacts sharing exposure risks before boarding the aircraft.⁵ In our investigation, transmission may have been mitigated by mild symptoms and masking during the flight. However, the lack of secondary cases after prolonged air travel exposure supports droplet transmission, not airborne, as the likely route of spread of the COVID-19.

Footnotes

- **Competing interests:** None declared.

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