

Information received on 28/03/2020 from Dr Thomas Sit, Chief Veterinary Officer / Assistant Director (Inspection & Quarantine), Agriculture, Fisheries and Conservation Department, Hong Kong Special Administrative Region Government, Hong Kong , Hong Kong (SAR - PRC)

### Summary

Report type	Follow-up report No. 3 (Final report)
Date of start of the event	26/02/2020
Date of confirmation of the event	28/02/2020
Report date	28/03/2020
Date submitted to OIE	28/03/2020
Date event resolved	13/03/2020
Reason for notification	Emerging disease
Morbidity	1 (scale 0 to 5)
Mortality	0 (scale 0 to 5)
Zoonotic impact	Zoonotic potential unknown at this time
Causal agent	SARS-CoV-2
Related reports	<a href="#">Immediate notification (29/02/2020)</a> <a href="#">Follow-up report No. 1 (07/03/2020)</a> <a href="#">Follow-up report No. 2 (16/03/2020)</a> <a href="#">Follow-up report No. 3 (28/03/2020)</a>

Outbreaks	There are no new outbreaks in this report
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### Epidemiology

Source of the outbreak(s) or origin of infection	Likely human to animal transmission
Epidemiological comments	The dog was placed under quarantine on 26 February 2020 after its owner was hospitalised due to COVID-19 infection. Following veterinary examination nasal, oral, rectal swabs as well as faeces were taken after the dog's admission to the quarantine facility. Nasal and oral samples tested positive for SARS-CoV-2. Follow up nasal, oral and rectal swab samples and faeces were subsequently taken on 28th February and 2nd, 5th, 9th, 12th and 13th March 2020. Both oral and nasal samples taken on 28th February 2020 tested positive. The nasal samples taken on 2nd, 5th and 9th March continued to test positive. All swab samples taken on 12 and 13 March tested negative. Serum sample collected during quarantine tested positive for neutralising antibodies. Test results support that the dog was infected with SARS-CoV-2. However, no clinical sign was detected during the quarantine period. The animal was returned to the owner after completion of quarantine and consecutive negative test results. The dog died two days after release from quarantine. However, the death is not considered directly related to the earlier infection. Risk management measures are in place for this case, including cleansing and disinfection of the premises, and proper personal hygiene and protection. Mammalian pets from households with confirmed human cases of COVID-19 will be placed under quarantine and veterinary surveillance for 14 days. Samples will be collected for testing of SARS-CoV-2 as appropriate.

### Control measures

Measures applied	Screening Traceability Quarantine Disinfection Vaccination permitted (if a vaccine exists) No treatment of affected animals
Measures to be applied	No other measures

### Diagnostic test results

Laboratory name and type	Species	Test	Test date	Result
School of Public Health, The University of Hong Kong (Regional Reference Laboratory)	Dogs	Plaque reduction neutralisation test (PRN)	23/03/2020	Positive
School of Public Health, The University of Hong Kong (Regional Reference Laboratory)	Dogs	virus isolation	23/03/2020	Negative

## Future Reporting

The event is resolved. No more reports will be submitted.