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Subject: PRO/AH/EDR> COVID-19 update (452): Chile (RM) animal, cat, OIE

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CORONAVIRUS DISEASE 2019 UPDATE (452): CHILE (METROPOLITAN REGION) ANIMAL, CAT, OIE

A ProMED-mail post

<http://www.promedmail.org>

ProMED-mail is a program of the

International Society for Infectious Diseases

<http://www.isid.org>

Date: Thu 22 Oct 2020

Source: OIE, WAHIS [edited]

https://www.oie.int/wahis_2/public/wahid.php/Reviewreport/Review?page_refer=MapFullEventReport&reportid=36236

SARS-CoV-2/COVID-19, Chile

Information received on [and dated] 22 Oct 2020 from Dr. Oscar Eduardo Videla Perez, Head of the Livestock Protection Division, Agricultural and Livestock Service, Ministry of Agriculture, Santiago, Chile

Summary

Report type: Immediate notification (final report)

Date of start of the event: 1 May 2020

Date of confirmation of the event: 1 Oct 2020

Report date: 22 Oct 2020

Date submitted to OIE: 22 Oct 2020

Reason for notification: Emerging disease

Morbidity: 5 (scale 0 to 5)

Mortality: 0 (scale 0 to 5)

Zoonotic impact: Zoonotic potential currently unknown

Causal agent: SARS-CoV-2

New outbreaks (1)

Total outbreaks: 1

Total affected animals:

Outbreak location: Santiago, Santiago [Metropolitan Region]

Date of start of the outbreak: 1 May 2020

Outbreak status: Resolved 8 Jun 2020

Epidemiological unit: Not applicable

Animals affected:

Species / Susceptible / Cases / Deaths / Killed and disposed of / Slaughtered

Cats / 3 / 3 / 0 / 0 / 0

Affected population: Viral RNA was detected by RT-PCR in cat 1 (with a closer link with one of the owners) in nasal secretions and faeces. Four and 5 days after this finding, viral RNA was detected in the other two cats (2 and 3), also in nasal secretions and faeces. During monitoring and successive sampling carried out on the animals, persistence of viral excretion was observed for 4 days (cat 1), 7 days (cat 2), and 16 days (cat 3). After that, the virus became undetectable in samples from these animals.

Outbreak statistics [rates apparent, expressed as percentages]

Species / Morbidity rate / Mortality rate / Case fatality rate / Proportion susceptible animals lost*

Cats / 100 / 0 / 0 / 0

*Removed from the susceptible population through death, destruction, and/or slaughter

Epidemiology

Source of the outbreak(s) or origin of infection: Transmission from human to animal suspected.

Epidemiological comments: Within a research study carried out by a state university on domestic animals in COVID-19-positive homes, 3 domestic cats were sampled 5 days after the occurrence of symptoms in their owners (2 people) who were COVID-19-positive. After the molecular results, the isolates from the owners and the animals were sequenced, and a genetic cluster between them was established.

Control measures

Measures applied: Quarantine; 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

FAVET (private laboratory) / Cats / Polymerase chain reaction (PCR) / 8 Jun 2020 / Positive

FAVET (private laboratory) / Cats / Virus sequencing / 1 Oct 2020 / Positive

Future reporting

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

[The location of the outbreak can be seen on the interactive map included in the OIE report at the source URL above.]

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[The following has been extracted from the OIE Technical factsheet "Infection with SARS-CoV-2 in animals" (last updated September 2020), available at https://www.oie.int/fileadmin/Home/MM/EN_2_Factsheet_SARS-CoV-2_v8_final.pdf:

Although current evidence suggests that SARS-CoV-2 emerged from an animal source, likely a bat, that source has yet to be identified. The pandemic is driven by person-to-person transmission, which happens through respiratory droplets from coughing, sneezing, and talking that can remain in the air for some time as aerosols. Genetic sequence data reveal that SARS-CoV-2 is genetically closely related to other coronaviruses circulating in *Rhinolophus* bat (horseshoe bat) populations. To date, there is not enough scientific evidence to identify the source of SARS-CoV-2 or to explain the original route of transmission to humans (which may involve an intermediate host).

Several animal species have tested positive for SARS-CoV-2, with infection being introduced to a population as a result of close contact with humans or animals infected with SARS-CoV-2 or in experimental infection studies performed in laboratory settings.

Biosecurity and hygiene measures are key to preventing transmission of SARS-CoV-2. People who are suspected or confirmed to

be infected with SARS-CoV-2 should restrict contact with mammalian animals, including pets, just like they would with people during their illness.

Animals suspected or confirmed to be infected with SARS-CoV-2 should remain separated from other animals and humans while infected. Due to their susceptibility, some animal species are being used as models to test vaccines for use in humans. No SARS-CoV-2 vaccines are licensed for use in animals.

- Mod.CRD

HealthMap/ProMED-mail map:

Santiago, Metropolitan Region, Chile: <https://promedmail.org/promed-post?place=7885452,2730>

See Also

COVID-19 update (450): animal, cattle, research, experimental infection 20201022.7883213
COVID-19 update (448): animal, raccoon dog, research, experimental infection 20201022.7880283
COVID-19 update (445): animal, Netherlands, Denmark, mink, spread, epidemiology 20201019.7873326
COVID-19 update (439): animal, Denmark, mink, spread, control 20201014.7861560
COVID-19 update (437): animal, Netherlands, Denmark, mink, spread, control 20201013.7858915
COVID-19 update (433): animal, Denmark (ND, MJ) farmed mink, spread, control 20201010.7851707
COVID-19 update (430): animal, USA (UT) mink 20201009.7847704
COVID-19 update (425): animal, Denmark (ND) farmed mink, spread, control 20201004.7835635
COVID-19 update (417): Japan (TK) animal, dog, OIE 20200927.7817541
COVID-19 update (414): animal, Netherlands (LI), Denmark (ND), farm mink, spread 20200925.7813579
COVID-19 update (406): animal, Netherlands (LI), Denmark (ND), farm mink, spread 20200918.7794239
COVID-19 update (401): Netherlands (NB), Denmark, farmed mink, spread 20200914.7777661
COVID-19 update (394): Netherlands (NB) animal, farmed mink, spread 20200908.7759382
COVID-19 update (387): Netherlands, mink, animal & public health, research 20200902.7740793
COVID-19 update (382): Netherlands, animal, farmed mink, spread, control 20200830.7730463
COVID-19 update (376): animal, ferret, mink, comment 20200827.7721923
COVID-19 update (366): animal, USA (UT) mink 20200818.7692815
COVID-19 update (364): USA (NC, NY) animal, dog, comment 20200818.7689234
COVID-19 update (363): animal, Denmark (ND) Netherlands (NB,LI) mink, spread 20200817.7687830
COVID-19 update (360): USA (NC, NY) animal, dog, comment 20200815.7681907
COVID-19 update (355): USA (NC) animal, dog 20200813.7672505
COVID-19 update (350): USA (TX) animal, cat 20200808.7658191
COVID-19 update (346): USA (LA) animal, dog, conf 20200805.7648734
COVID-19 update (345): animal, cat, research, experimental infection 20200805.7648370
COVID-19 update (340): animal, China, enviro monitoring, Netherlands (NB), mink 20200801.7635820
COVID-19 update (334): animal, Netherlands, mink, spread, UK, cat, 1st rep, OIE 20200727.7617582
COVID-19 update (330): China (Hong Kong) animal, cat, OIE 20200724.7609215
COVID-19 update (324): Netherlands (NB) animal, farmed mink, spread 20200719.7591013
COVID-19 update (322): USA (SC) animal, dog 20200719.7588843
COVID-19 update (319): Spain (AR) animal, farmed mink, 1st rep 20200717.7584560
COVID-19 update (317): Netherlands (NB) animal, farmed mink, spread 20200716.7578453
COVID-19 update (312): China, SARS-CoV2 origin, animal reservoir, WHO mission 20200711.7565035
COVID-19 update (308): USA (TX) animal, dog conf. 20200708.7554832
COVID-19 update (299): USA (GA) animal, dog conf 20200703.7535112
COVID-19 update (284): Denmark (ND) animal, farmed mink, spread, dog 20200624.7506728
COVID-19 update (281): Netherlands (NB, LI) farmed mink, spread, animal, global 20200623.7502849
COVID-19 update (280): animal, pangolin, research 20200623.7502805

COVID-19 update (267): animal, domestic, wild, cat, research 20200617.7480013
COVID-19 update (266): Denmark (ND) animal, farmed mink, 1st rep 20200617.7479510
COVID-19 update (251): Netherlands (NB, LI) animal, farmed mink, spread, culling 20200610.7453845
COVID-19 update (248): Netherlands (NB, LI) animal, mink, spread, culling, cat 20200609.7446478
COVID-19 update (238): USA (MN) animal, cat 20200605.7429133
COVID-19 update (236): Netherlands (NB, LI) animal, farmed mink, spread, culling 20200604.7427849
COVID-19 update (231): USA (NY) animal, dog conf. 20200602.7420541
COVID-19 update (230): Netherlands (NB, LI) animal, farmed mink, spread, control 20200602.7420433
COVID-19 update (227): animal, cat, dog, research, experimental infection 20200601.7416648
COVID-19 update (215): Netherlands (NB) animal, mink-to-human, epidem., control 20200527.7385049
COVID-19 update (212): Russia (Moskva) animal, cat, OIE 20200526.7379578
COVID-19 update (209): Netherlands (NB) farmed mink, animal-to-human, cat, epid 20200525.7375359
COVID-19 update (198): Netherlands (NB) farmed mink, animal-to-human infect susp 20200520.7359976
COVID-19 update (189): Netherlands (NB) animal, farmed mink, research, cat, dog 20200517.7344274
COVID-19 update (183): Japan/USA, animal, research, cat, experimental infection 20200514.7337185
COVID-19 update (181): Germany (BY), France (AC), cat, OIE animal case definition 20200513.7332909
COVID-19 update (177): Netherlands (NB) animal, farmed mink, Spain (CT) cat susp 20200512.7328587
COVID-19 update (174): Netherlands (NB) animal, farmed mink, comment 20200511.7323845
COVID-19 update (169): Netherlands (NB) animal, farmed mink, spread, rabbit susp 20200509.7316646
COVID-19 update (166): China (Hong Kong) animal, cat, OIE, resolved 20200508.7314521
COVID-19 update (154): Netherlands (NB) animal, farmed mink, research 20200503.7294846
COVID-19 update (149): France (IF) animal, cat, owned 20200501.7289409
COVID-19 update (146): Netherlands (NB) animal, farmed mink, epidemiology 20200501.7286113
COVID-19 update (143): USA (NY) animal, zoo, tiger, lion, tests 20200430.7284183
COVID-19 update (141): India, animal, wild tiger, susp, clarification, RFI 20200430.7281768
COVID-19 update (138): India, animal, wild tiger, fatal 20200428.7275765
COVID-19 update (135): Netherlands (NB) animal, farmed mink 20200427.7272289
COVID-19 update (130): USA (NY) animal, zoo, tiger, lion, new cases 20200425.7266556
COVID-19 update (124): USA (NY) animal, cat, lion, OIE 20200423.7259119
COVID-19 update (123): USA (NY) animal, cat, conf 20200422.7256272
COVID-19 update (113): USA (NY) cat, animal, susp, RFI 20200418.7240811
COVID-19 update (88): Germany, animal, research, pig, chicken, bat, ferret 20200407.7196506
COVID-19 update (85): USA (NY) animal, tiger, OIE 20200406.7191480
COVID-19 update (84): USA animal, tiger 20200406.7191352
COVID-19 update (76): China (HU) animal, cat, owned, stray, seropositive 20200403.7179946
COVID-19 update (75): China (Hong Kong) animal, cat, OIE 20200403.7179945
COVID-19 update (70): China (Hong Kong) animal, cat, pets & stock 20200402.7173286
COVID-19 update (58): Belgium, animal, cat, clinical case, RFI 20200327.7151215
COVID-19 update (56): China (Hong Kong) animal, dog, final serology positive 20200326.7146438
COVID-19 update (50): China (Hong Kong) animal, dog, 2nd case PCR positive, OIE 20200323.7129951
COVID-19 update (45): China (Hong Kong) animal, dog, 2nd case PCR positive 20200319.7112693
COVID-19 update (37): China (Hong Kong) animal, dog, prelim. serology negative 20200312.7081842
COVID-19 update (30): China (Hong Kong) animal, dog, susp, serology pending 20200306.7057595
COVID-19 update (22): companion animal, dog susp, RFI 20200229.7036661
COVID-19 update (17): China, animal reservoir, wildlife trade & consumption ban 20200225.7024245
COVID-19 update (11): animal reservoir, intermediate hosts, pangolin susp. 20200220.7009213
COVID-19 update (08): companion animal, RFI 20200218.7002276
COVID-19 update (06): animal reservoir, intermediate hosts 20200217.6997782

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