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Subject: PRO/AH/EDR> COVID-19 update (552): USA, animal, cat, dog, snow leopard, OIE

Archive Number: 20201223.8042405

CORONAVIRUS DISEASE 2019 UPDATE (552): USA, ANIMAL, CAT, DOG, SNOW LEOPARD, OIE

A ProMED-mail post

<http://www.promedmail.org>

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International Society for Infectious Diseases

<http://www.isid.org>

Date: Mon 21 Dec 2020

Source: OIE, WAHIS [edited]

https://www.oie.int/wahis_2/public/wahid.php/Reviewreport/Review?page_refer=MapFullEventReport&reportid=37147

SARS-CoV-2/COVID-19, United States of America

Information received on 21 Dec 2020 from Dr Mark Davidson, Associate Administrator, USDA-APHIS, United States Department of Agriculture, Washington, United States of America

Summary

Report type: immediate notification

Date of start of the event: 27 Mar 2020

Date of confirmation of the event: 4 Apr 2020

Report date: 18 Dec 2020

Date submitted to OIE: 21 Dec 2020

Reason for notification: emerging disease

Morbidity: 2 (scale 0 to 5)

Mortality: 1 (scale 0 to 5)

Zoonotic impact: zoonotic potential under investigation

New outbreaks (8)

Outbreak location 1: Brazos County, Brazos, Texas

Date of start of the outbreak: 22 Oct 2020

Outbreak status: continuing (or date resolved not provided)

Epidemiological unit: other

Affected animals:

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

Cats / 2 / 2 / 0 / 0 / 0

Affected population: pet domestic cats (_Felis catus_) in a residential household

Outbreak location 2: Okaloosa County, Okaloosa, Florida

Date of start of the outbreak: 8 Nov 2020

Outbreak status: continuing (or date resolved not provided)

Epidemiological unit: other

Affected animals:

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

Dogs / 2 / 1 / 0 / 0 / 0

Affected population: pet domestic dogs (_Canis lupus familiaris_) in a residential household

Outbreak location 3: Washington County, Washington, Pennsylvania

Date of start of the outbreak: 13 Nov 2020

Outbreak status: continuing (or date resolved not provided)

Epidemiological unit: other

Affected animals:

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

Dogs / 1 / 1 / 0 / 0 / 0

Affected population: pet domestic dogs (_Canis lupus familiaris_) in a residential household

Outbreak location 4: Brazos County, Brazos, Texas

Date of start of the outbreak: 15 Nov 2020

Outbreak status: continuing (or date resolved not provided)

Epidemiological unit: other

Affected animals:

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

Cats / 1 / 1 / 0 / 0 / 0

Affected population: pet domestic cat (_Felis catus_) in a residential household

Outbreak location 5: Eau Claire County, Eau Claire, Wisconsin

Date of start of the outbreak: 17 Nov 2020

Outbreak status: continuing (or date resolved not provided)

Epidemiological unit: other

Affected animals:

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

Cats / 1 / 1 / 0 / 0 / 0

Affected population: pet domestic cat (_Felis catus_) in a residential household

Outbreak location 6: Tarrant County, Tarrant, Texas

Date of start of the outbreak: 20 Nov 2020

Outbreak status: continuing (or date resolved not provided)

Epidemiological unit: other

Affected animals:

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

Cats / 1 / 1 / 0 / 0 / 0

Affected population: pet domestic cat (_Felis catus_) in a residential household

Outbreak location 7: Jefferson County, Jefferson, Kentucky

Date of start of the outbreak: 27 Nov 2020

Outbreak status: continuing (or date resolved not provided)

Epidemiological unit: zoo

Affected animals:

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

Snow leopard: *Panthera uncia* (Felidae) / 3 / 1 / 0 / 0 / 0

Affected population: adult snow leopards (*Panthera uncia*) in a zoo

Outbreak location 8: Riley County, Riley, Kansas

Date of start of the outbreak: 3 Dec 2020

Outbreak status: continuing (or date resolved not provided)

Epidemiological unit: other

Affected animals:

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

Dogs / 1 / 1 / 0 / 0 / 0

Affected population: pet domestic dog (*Canis lupus familiaris*) in a residential household

Total outbreaks: 8

Total affected animals:

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

Cats / 5 / 5 / 0 / 0 / 0

Dogs / 4 / 3 / 0 / 0 / 0

Snow leopard: *Panthera uncia* (Felidae) / 3 / 1 / 0 / 0 / 0

Outbreak statistics [rates apparent, expressed as percentages]

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

Cats / 100 / 0 / 0 / 0

Dogs / 75 / 0 / 0 / 0

Snow leopard: *Panthera uncia* (Felidae) / 33.33 / 0 / 0 / 0

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

Epidemiology

Source of the outbreak(s) or origin of infection: suspected human transmission

Epidemiological comments:

Texas (TX): A domestic cat from a known positive COVID-19 household was confirmed positive for SARS-CoV-2 at the National Veterinary Services Laboratories (NVSL) based upon molecular testing (PCR and sequencing). The cat showed no clinical signs and continues to be asymptomatic. Samples for this case were collected as part of planned and targeted active surveillance of a specific animal, with known or suspected exposures to a person with COVID-19 or other exposure to SARS-CoV-2, to better understand risk factors for SARS-CoV-2 transmission.

Texas (TX): Two domestic cats sharing a known positive COVID-19 household were confirmed positive for SARS-CoV-2 at the NVSL based upon molecular testing (PCR and sequencing). The 1st cat showed clinical signs of sneezing and coughing. The 2nd cat was asymptomatic. Samples for these cases were collected as part of planned and targeted active surveillance of a specific animal, with known or suspected exposures to a person with COVID-19 or other exposure to SARS-CoV-2, to better understand risk factors for SARS-CoV-2 transmission.

Texas (TX): A domestic cat from a known positive COVID-19 household was confirmed positive for SARS-CoV-2 at the NVSL based upon molecular testing (PCR and sequencing). The cat, who showed clinical signs of tremors, vomiting, and sneezing, has reportedly recovered.

Florida (FL): A domestic dog from a known positive COVID-19 household was confirmed positive for SARS-CoV-2 at the National Veterinary Services Laboratories based upon molecular testing (PCR and sequencing). The dog, who had a recent history of respiratory issues with antibiotic and steroid treatment, has reportedly recovered. A 2nd dog in the household has

remained asymptomatic.

Pennsylvania (PA): A domestic dog from a known positive COVID-19 household was confirmed positive for SARS-CoV-2 at the National Veterinary Services Laboratories based upon molecular testing (PCR and sequencing). The dog, who has a chronic history of respiratory issues, was diagnosed in late summer 2020 with pneumonia, which reportedly improved with treatment. Recently, the dog was presented to the veterinarian for a recurrence of respiratory clinical signs that did not show improvement with treatment. Testing for comorbidities, including breed-associated autoimmune disease, is in progress.

Kentucky (KY): One snow leopard at a zoo was confirmed positive for SARS-CoV-2 at the National Veterinary Services Laboratories based upon molecular testing (PCR and sequencing). The affected snow leopard exhibited mild respiratory clinical signs, including an occasional dry cough or wheeze. Two additional snow leopards, who were also showing clinical signs, were sampled, and results are pending. It is likely that the SARS-CoV-2 virus was transmitted to the snow leopards by an infected human. All snow leopards are progressively recovering and were removed from public exhibition at the onset of clinical signs. There are no other suspected cases of SARS-CoV-2 in any animals from the zoo at this time.

Wisconsin (WI): A domestic cat from a known positive COVID-19 household was confirmed positive for SARS-CoV-2 at the National Veterinary Services Laboratories based upon molecular testing (PCR and sequencing). The cat, who showed clinical signs of lethargy, sinus congestion, wheezing, sneezing, and nasal discharge, has reportedly recovered.

Kansas (KS): A domestic dog from a known positive COVID-19 household was confirmed positive for SARS-CoV-2 at the National Veterinary Services Laboratories based upon molecular testing (PCR and sequencing). The dog, who was scheduled for a surgical procedure, displayed nasal discharge on pre-surgical examination and was sampled as a precautionary measure. There is a single SARS-CoV-2 event occurrence in the United States of America; however, for WAHIS technical reasons, any new outbreak in the country will be reported from now on in this new event and not in the one first reported in April 2020.

Control measures

Measures applied: 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: National Veterinary Services Laboratories (national laboratory)

Species / Test / Test date / Result

Cats / gene sequencing / 16 Nov 2020 / positive

Cats / gene sequencing / 7 Dec 2020 / positive

Cats / real-time reverse transcriptase/polymerase chain reaction (RRT-PCR) / 16 Nov 2020 / positive

Cats / real-time reverse transcriptase/polymerase chain reaction (RRT-PCR) / 7 Dec 2020 / positive

Dogs / gene sequencing / 7 Dec 2020 / positive

Dogs / gene sequencing / 11 Dec 2020 / positive

Dogs / real-time reverse transcriptase/polymerase chain reaction (RRT-PCR) / 7 Dec 2020 / positive

Dogs / real-time reverse transcriptase/polymerase chain reaction (RRT-PCR) / 11 Dec 2020 / positive

Snow leopard / gene sequencing / 10 Dec 2020 / positive

Snow leopard / real-time reverse transcriptase/polymerase chain reaction (RRT-PCR) / 10 Dec 2020 / positive

Future reporting

The event is continuing. Weekly follow-up 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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Communicated by:

ProMED-mail

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[As is mentioned in the epidemiological comments, "There is a single SARS-CoV-2 event occurrence in the United States of America; however, for WAHIS technical reasons, any new outbreak in the country will be reported from now on in this new event and not in the one first reported in April 2020." All the information and an updated map of the cases in animals reported in USA from April to November 2020 is available at https://www.oie.int/wahis_2/temp/reports/en_fup_0000036731_20201201_153531.pdf. - Mod.CRD

HealthMap/ProMED-mail maps:

Brazos County, Texas, United States: <https://promedmail.org/promed-post?place=8042405,8655>

Okaloosa County, Florida, United States: <https://promedmail.org/promed-post?place=8042405,7694>

Washington County, Pennsylvania, United States: <https://promedmail.org/promed-post?place=8042405,9611>

Eau Claire County, Wisconsin, United States: <https://promedmail.org/promed-post?place=8042405,931>

Tarrant County, Texas, United States: <https://promedmail.org/promed-post?place=8042405,1259>

Jefferson County, Kentucky, United States: <https://promedmail.org/promed-post?place=8042405,6525>

Riley County, Kansas, United States: <https://promedmail.org/promed-post?place=8042405,24113>

See Also

COVID-19 update (538): USA, animal, zoo, snow leopard 20201214.8017000

COVID-19 update (536): animal, USA (UT) wild mink, 1st case 20201213.8015608

COVID-19 update (525): Spain, animal, zoo, lion, human 20201208.8002466

COVID-19 update (519): Switzerland (ZH) animal, cat, OIE 20201204.7993204

COVID-19 update (506): Argentina (BA, SE) animal, cat, dog, OIE 20201125.7972283

COVID-19 update (495): animal, cat, transmission model 20201119.7954363

COVID-19 update (469): USA (TN) zoo, tiger 20201104.7915683

COVID-19 update (463): Brazil (MT) animal, cat, OIE 20201031.7905784

COVID-19 update (452): Chile (RM) animal, cat, OIE 20201023.7885452

COVID-19 update (364): USA (NC,NY) animal, dog, comment 20200818.7689234

COVID-19 update (356): South Africa (GT) animal, puma, zoo, OIE 20200813.7673666

COVID-19 update (355): USA (NC) animal, dog 20200813.7672505

COVID-19 update (350): USA (TX) animal, cat 20200808.7658191

COVID-19 update (345): animal, cat, research, experimental infection 20200805.7648370

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 (267): animal, domestic, wild, cat, research 20200617.7480013

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 (227): animal, cat, dog, research, experimental infection 20200601.7416648

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 (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 defin. 20200513.7332909

COVID-19 update (166): China (Hong Kong) animal, cat, OIE, resolved 20200508.7314521

COVID-19 update (149): France (IF) animal, cat, owned 20200501.7289409

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 (58): Belgium, animal, cat, clinical case, RFI 20200327.7151215

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