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Subject: PRO/AH/EDR> COVID-19 update (212): Russia (Moskva) animal, cat, OIE

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CORONAVIRUS DISEASE 2019 UPDATE (212): RUSSIA (MS) 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: Tue 26 May 2020

Source: OIE, WAHID (World Animal Health Information Database), weekly disease information 2020; 33(22) [edited]

https://www.oie.int/wahis_2/public/wahid.php/Reviewreport/Review?page_refer=MapFullEventReport&reportid=34443

SARS-CoV-2, Russia

Information received on [and dated] Tue 26 May 2020 from Dr. Nikolay Vlasov, Deputy Head, Federal Service for Veterinary and Phytosanitary Surveillance, Ministry of Agriculture, Moscou, Russia

Summary

Report type: immediate notification

Date of start of the event: 18 May 2020

Date of confirmation of the event: 22 May 2020

Reason for notification: emerging disease

Morbidity: 1 (scale 0 to 5)

Mortality: 0 (scale 0 to 5)

Zoonotic impact: No

Causal agent: SARS-CoV-2

New outbreaks (1)

Summary of outbreaks:

Total outbreaks: 1

Outbreak location: Moskva, Moskovskaya Oblast [Moskva]

Date of start of the outbreak: 18 May 2020

Outbreak status: continuing (or date resolved not provided)

Epidemiological unit: other

Total animals affected:

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

Cats / 1 / 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

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

Epidemiology

Source of the outbreak(s) or origin of infection: Unknown or inconclusive.

Epidemiological comments: To perform laboratory tests biomaterial samples (throat and nasal swabs) were taken from a 5-year-old cat to detect the presence of SARS-CoV-2 coronavirus. The lab tests were performed using RT-PCR in real time. Additionally, a RT-PCR was performed with electrophoretic detection of amplification products. The obtained amplification reaction product was sequenced using selected specific primers flanking a 232 bp N gene fragment (ORF1ab) of the SARS-CoV-2 virus. The tests showed 100% identity of the analyzed fragment of the sequence of the N gene ORF1ab of the SARS-CoV-2 virus. Currently, the animal is quarantined at the place of keeping.

Control measures

Measures applied: movement control inside the country; 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

Federal State Budgetary Institution, Russian State Center for Animal Feed and Drug Standardization and Quality (Regional Laboratory) / Cat / Real-time reverse transcriptase/polymerase chain reaction (RRT-PCR) / 22 May 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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[Although the immediate notification did not indicate whether the cat was in close contact with a person known or suspected to be infected with SARS-CoV-2, it most likely was.

Subscribers are encouraged to read the OIE's Questions and Answers information on COVID-19, last updated Mon 18 May 2020 <https://www.oie.int/en/scientific-expertise/specific-information-and-recommendations/questions-and-answers-on-2019-novel-coronavirus/>. The following is sourced from that information:

"Now that SARS-CoV-2 infections are widely distributed in the human population, there is a possibility for certain animal species to become infected through close contact with infected humans. Infection of animals with SARS-CoV-2 may have implications for animal health and welfare, for wildlife conservation, and for biomedical research.

Dogs, cats (domestic and large cats), and minks have tested positive for SARS-CoV-2 in the field setting, following close contact with humans known or suspected to be infected with SARS-CoV-2.

Studies are underway to better understand the susceptibility of different animal species to SARS-CoV-2 and to assess infection

dynamics in susceptible animal species. To date, preliminary findings from experimental infection studies suggest that poultry and pigs are not susceptible to SARS-CoV-2 infection.

Findings from laboratory studies suggest that, of the animal species investigated so far, cats are the most susceptible species for SARS-CoV-2, and cats can be affected with clinical disease. In an experimental laboratory setting cats were able to transmit infection to other cats. In the laboratory setting ferrets were susceptible to infection and able to transmit infection to other ferrets, although they appear to be less affected by clinical disease. Ferrets might serve as a useful model for future studies e.g. to evaluate vaccines or therapeutics. Golden Syrian hamsters, as well as cynomolgus and rhesus macaques can be consistently infected by SARS-CoV-2 and may show clinical signs. Dogs appear to be susceptible to infection but appear to be less affected than ferrets or cats. Egyptian fruit bats were also infected in the laboratory setting but did not show signs of disease. The infected fruit bats were able to transmit infection to other fruit bats.

The current spread of COVID-19 is a result of human to human transmission. To date, there is no evidence that animals play an epidemiologically relevant role in spreading the human disease. Therefore, there is no justification in taking measures directed at animals, particularly companion animals, which may compromise their welfare".

Findings in animals:

OIE Member Countries have been keeping the OIE updated on any investigations or outcomes of investigations in animals:

- Animal surveillance in China: China update [5 Feb 2020].

[See report at https://www.oie.int/fileadmin/Home/eng/Our_scientific_expertise/docs/pdf/COV-19/China_update_COVID-19.pdf]

- SARS-CoV-2 positive test results in dogs in Hong Kong: Follow-up report no.1 [9 Mar 2020], Follow-up report no. 2 [16 Mar 2020], Follow-up report no. 3 [23 Mar 2020]

[See reports at https://www.oie.int/wahis_2/public/wahid.php/Reviewreport/Review?reportid=33455 and https://www.oie.int/wahis_2/public/wahid.php/Reviewreport/Review?page_refer=MapFullEventReport&reportid=33684]

- SARS-CoV-2 positive test result in a in cat in Belgium [28 Mar 2020]

[See report at https://www.oie.int/fileadmin/Home/eng/Our_scientific_expertise/docs/pdf/COV-19/Belgium_28.03.20.pdf]

- SARS-CoV-2 positive test result in a in tiger [6 Apr 2020] [See

https://www.oie.int/wahis_2/public/wahid.php/Reviewreport/Review?page_refer=MapFullEventReport&reportid=33885] and a lion [17 Apr 2020] [See https://www.oie.int/wahis_2/public/wahid.php/Reviewreport/Review?reportid=34054] in the USA

- SARS-CoV-2 positive test result two domestic cats in the USA [22 Apr 2020] [See

https://www.oie.int/wahis_2/public/wahid.php/Reviewreport/Review?reportid=34086]

- SARS-CoV-2 positive test result in a in two mink farms in The Netherlands [26 Apr 2020] [See information at,

https://www.oie.int/fileadmin/Home/eng/Our_scientific_expertise/docs/pdf/COV-19/OIE_SARS_CoV%20infection_of_mink_in_the_Netherlands_26April2020.pdf]

- SARS-CoV-2 positive test result in two domestic cats in France 1st [2 May 2020] [See <https://promedmail.org/promed-post/?id=20200501.7289409>] and 2nd [12 May 2020] [See

https://www.oie.int/fileadmin/Home/eng/Our_scientific_expertise/docs/pdf/COV-19/covid_chat_ENVT-1_France.pdf]

- SARS-CoV-2 positive test result in a domestic cat in Spain [11 May 2020] [See

https://www.oie.int/fileadmin/Home/eng/Our_scientific_expertise/docs/pdf/COV-19/Nota_Gato%20SARS-CoC-2_spain.pdf]

-SARS-CoV-2 positive test result in a domestic cat in Germany [13 May 2020] [See <https://promedmail.org/promed-post/?id=7332909>]. - Mod.CRD

HealthMap/ProMED map available at:

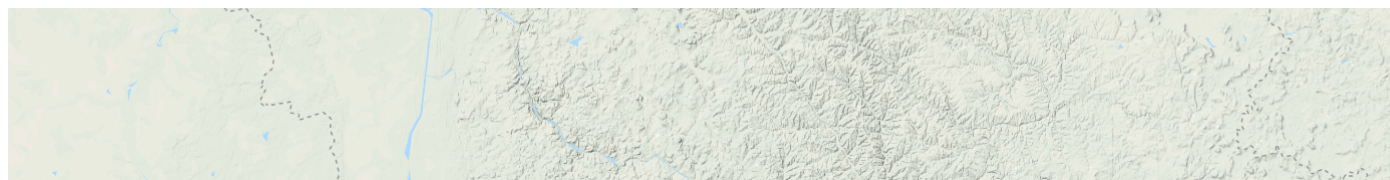
Russia: <https://promedmail.org/promed-post?place=7379578,98>

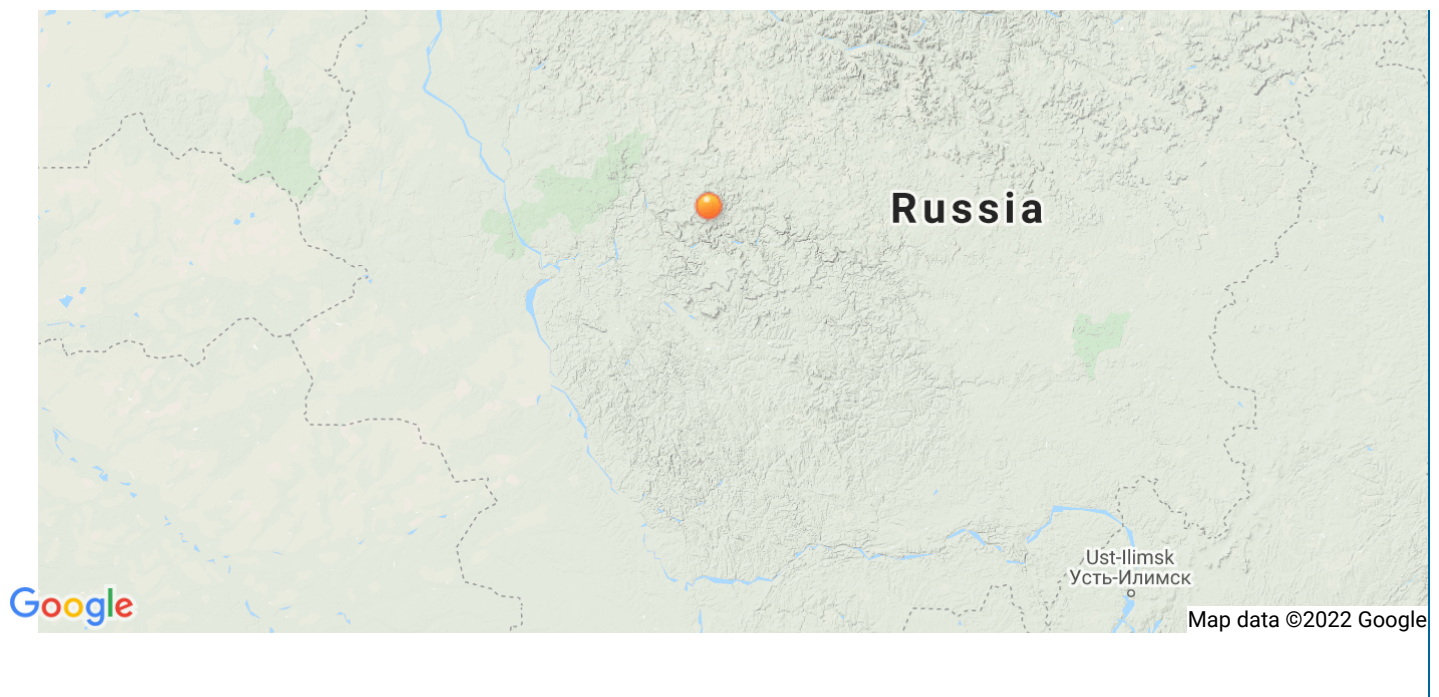
See Also

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, animals, research, cat, experimental infection 20200514.7337185
COVID-19 update (181): Germany (BY), France (AC), cat, OIE animal case definition 20200513.7332909
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 (154): Netherlands (NB) animal, farmed mink, research 20200503.7294846
COVID-19 update (146): Netherlands (NB) animal, farmed mink, epidemiology 20200501.7286113
COVID-19 update (135): Netherlands (NB) animal, farmed mink 20200427.7272289
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 (25): China (Hong Kong) animal, dog, susp, OIE 20200302.7040373
COVID-19 update (22): companion animals, dog susp, RFI 20200229.7036661
COVID-19 update (17): China, animal reservoir, wildlife trade & consumption 20200225.7024245
COVID-19 update (11): animal reservoir, intermediate hosts, pangolin susp 20200220.7009213
COVID-19 update (08): companion animals, RFI 20200218.7002276
COVID-19 update (06): animal reservoir, intermediate hosts 20200217.6997782

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