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Subject: PRO/AH/EDR> COVID-19 update (356): South Africa (GT) animal, puma, zoo, OIE

Archive Number: 20200813.7673666

CORONAVIRUS DISEASE 2019 UPDATE (356): SOUTH AFRICA (GAUTENG) ANIMAL, PUMA, ZOO, 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: Wed 12 Aug 2020

Source: OIE, WAHIS (World Animal Health Information System), weekly disease information 2020; 33(33) [edited]

https://www.oie.int/wahis_2/public/wahid.php/Reviewreport/Review?page_refer=MapFullEventReport&reportid=35399

SARS-CoV-2/COVID-19, South Africa

Information received on 12 Aug 2020 from Dr Bothle Michael Modisane, Chief Director, Department of Agriculture, Forestry and Fisheries, Animal Production and Health, Pretoria, South Africa

Summary

Report type: immediate notification

Date of start of the event: 17 Jul 2020

Date of confirmation of the event: 31 Jul 2020

Report date: 11 Aug 2020

Date submitted to OIE: 12 Aug 2020

Reason for notification: emerging disease

Morbidity: 2%

Mortality: 0%

Zoonotic impact: Human SARS-CoV-2/COVID-19 infecting animals

Causal agent: SARS-CoV-2

New outbreaks (1)

Summary of outbreaks:

Total outbreaks: 1

Outbreak location: City of Johannesburg, Gauteng

Date of start of the outbreak: 17 Jul 2020

Outbreak status: Continuing (or date resolved not provided)

Epidemiological unit: Zoo

Total animals affected:

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

Puma: *Puma concolor* (Felidae) / 2 / 1 / 0 / 0 / 0

Affected population: Zoo puma tested positive for SARS-CoV-2 after contact with an infected handler.

Outbreak statistics [rates apparent, expressed as percentages]

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

Puma: *Puma concolor* (Felidae) / 50 / 0 / 0 / 0

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

Epidemiology

Source of the outbreak(s) or origin of infection: contact with an infected handler.

Control measures

Measures applied: quarantine; disinfection; vaccination prohibited; no treatment of affected animals

Measures to be applied: on other measures

Diagnostic test results

Laboratory name and type / Species / Test / Test date / Result

University of Pretoria - Virology Laboratory (private laboratory) / Cat / polymerase chain reaction (PCR) / 31 Jul 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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[Events in animals: OIE Members have been keeping the OIE updated on any investigations or outcomes of investigations in animals. Information is available at <https://www.oie.int/en/scientific-expertise/specific-information-and-recommendations/questions-and-answers-on-2019novel-coronavirus/events-in-animals/>. - Mod.CRD]

It has been shown that carnivores in the Felidae and Mustelidae families are susceptible to infection by SARS-CoV-2. The cougar/mountain lion/puma (*Puma concolor*) is a felid native to the Americas. Other Felidae previously confirmed infected by this virus were domestic cats, lions, and tigers. Further, experiments showed that infected cats can transmit the virus to other cats. It has not been proven as yet that felids can be a source of infection for humans. Animal-to-human transmission of COVID-19, however, has been documented from minks (Mustelidae). - Mod.PMB

HealthMap/ProMED map of South Africa: <https://promedmail.org/promed-post?place=7673666,2321>

See Also

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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