



Published Date: 2020-12-10 22:29:50 CET

Subject: PRO/AH/EDR> COVID-19 update (531): animal, Canada (BC) mink, OIE

Archive Number: 20201210.8008864

CORONAVIRUS DISEASE 2019 UPDATE (531): ANIMAL, CANADA (BRITISH COLUMBIA) MINK, 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 9 Dec 2020

Source: OIE, WAHIS [edited]

https://www.oie.int/wahis_2/public/wahid.php/Reviewreport/Review?page_refer=MapFullEventReport&reportid=36946

SARS-CoV-2, Canada

Information received on [and dated] 9 Dec 2020 from Dr Jaspinder Komal, Deputy Chief Veterinary Officer, Canadian Food Inspection Agency, Canadian Food Inspection Agency, Ottawa, Canada

Summary

Report type: immediate notification

Date of start of the event: 26 Nov 2020

Date of confirmation of the event: 8 Dec 2020

Reason for notification: emerging disease

Morbidity: 1%

Mortality: 1%

Zoonotic impact: zoonotic disease

Causal agent: SARS-CoV-2

New outbreaks (1)

Total outbreaks: 1

Total affected animals:

Outbreak location (BC-2020-001): Fraser Valley, British Columbia

Date of start of the outbreak: 26 Nov 2020

Outbreak status: continuing (or date resolved not provided)

Epidemiological unit: farm

Total animals affected:

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

Mustelidae / 15 000 / 200 / 200 / 0 / 0

Affected population: BC-2020-001 domestic American mink (_Neovison vison_) commercial farm

Outbreak statistics [rates apparent, expressed as percentages]

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

Mustelidae / 1.33 / 1.33 / 100 / 1.33

*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: COVID-19-positive mink farm workers were diagnosed on 3 Dec 2020. Minks did not display clinical signs at that time. Minks sampled from the farm on 4 Dec [2020] tested positive for SARS-CoV-2 at the provincial laboratory (E_Sarbeco PCR) and were confirmed to be positive at the National Centre for Foreign Animal Disease by PCR (SARS-CoV-2 real time RT-PCR for E and RdRp). In the days following sampling, there was an increase in mortality (1%).

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: screening

Diagnostic test results

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

National Centre for Foreign Animal Disease (national laboratory) / Mustelidae / real-time reverse transcriptase/polymerase chain reaction (RRT-PCR) / 8 Dec 2020 / positive

Animal Health Center (regional laboratory) / Mustelidae / real-time reverse transcriptase/polymerase chain reaction (RRT-PCR) / 5 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

<promed@promedmail.org>

[This immediate notification report officially confirms the information published by different media sources. According to this report, the source of infection is suspected to be human transmission.

"Farmed mink are highly susceptible to SARS-CoV-2 infection and, in some cases, they have transmitted the virus back to humans. Surveillance findings in Denmark show that SARS-CoV-2 introduced into mink populations continues to evolve through viral mutation. Viral mutation also happens in human infections, but new mutations may be seen as the virus adapts to a new species. Scientific investigations have confirmed that SARS-CoV-2 infection has been reintroduced from mink to humans.

The OIE acknowledges that such events could have important public health implications. There are concerns that the introduction and circulation of new virus strains in humans could result in modifications of transmissibility or virulence and in decreased treatment and vaccine efficacy. Yet, the full consequences remain unknown, and further investigation is needed to fully understand the impact of these mutations." Source: OIE COVID-19 Portal <https://www.oie.int/en/scientific-expertise/specific-information-and-recommendations/questions-and-answers-on-2019novel-coronavirus/>

Read more in the OIE Statement on COVID-19 and mink at <https://www.oie.int/en/for-the-media/press-releases/detail/article/oie-statement-on-covid-19-and-mink/>. - Mod.CRD

HealthMap/ProMED-mail map:

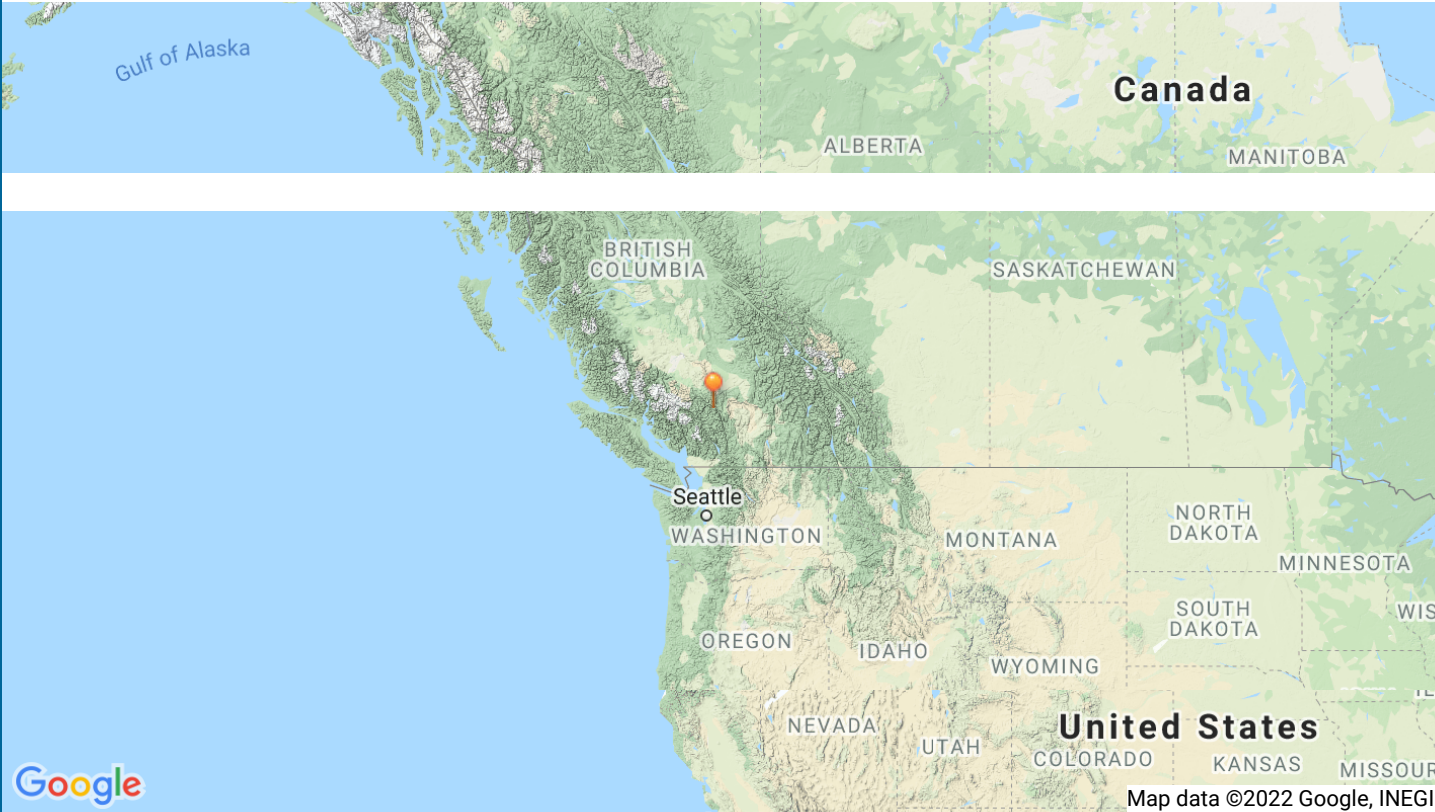
Fraser Valley, British Columbia, Canada: <https://promedmail.org/promed-post?place=8008864,23848>

See Also

COVID-19 update (530): animal, mink, research, experimental infection, vaccine 20201210.8009205
COVID-19 update (527): animal, Greece (WM) mink, spread, genome analysis 20201208.8002636
COVID-19 update (520): Denmark, Netherlands, mink, human-animal interface, WHO 20201204.7994061
COVID-19 update (516): China (Hong Kong) animal, dog, Lithuania, mink, OIE 20201203.7986508
COVID-19 update (510): animal, mink, Lithuania, Poland, 1st reports, France, OIE 20201127.7976927
COVID-19 update (507): animal, mink, Netherlands spread, Italy control 20201125.7972425
COVID-19 update (503): animal, France, mink, 1st rep 20201123.7965554
COVID-19 update (501): Denmark, Netherlands, mink, human-animal interface 20201122.7963766
COVID-19 update (498): Denmark, animal, mink, zoonotic 20201120.7959431
COVID-19 update (490): animal, Greece (EM) mink, 1st report, OIE, assessment 20201115.7944705
COVID-19 update (487): Denmark, animal, mink, zoonotic, risk assessment ECDC 20201112.7939110
COVID-19 update (482): animal, Denmark, mink, zoonotic, eradication, discussed 20201109.7929573
COVID-19 update (475): animal, Denmark, mink, spike protein sequences 20201106.7922587
COVID-19 update (473): animal, Denmark, mink, mutation, eradication, RFI 20201105.7918210
COVID-19 update (471): animal, Denmark, mink, zoonotic, eradication 20201104.7916300
COVID-19 update (464): animal, Denmark, mink, control, One Health 20201101.7906484
COVID-19 update (458): animal, Italy, mink, RFI 20201028.7897986
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 (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 (363): animal, Denmark (ND) Netherlands (NB,LI) mink, spread 20200817.7687830
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 (324): Netherlands (NB) animal, farmed mink, spread 20200719.7591013
COVID-19 update (317): Netherlands (NB) animal, farmed mink, spread 20200716.7578453
COVID-19 update (307): Netherlands (NB), Denmark (ND) farmed mink, spread, control 20200708.7553067
COVID-19 update (301): Denmark (ND) Netherlands (NB) farmed mink, spread, control 20200703.7536980
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 (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 (236): Netherlands (NB, LI) animal, farmed mink, spread, culling 20200604.7427849

COVID-19 update (230): Netherlands (NB, LI) animal, farmed mink, spread, control 20200602.7420433
COVID-19 update (215): Netherlands (NB) animal, mink-to-human, epidem., control 20200527.7385049
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 (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 (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
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