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Subject: PRO/AH/EDR> COVID-19 update (145): animal, Italy, mink, OIE

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CORONAVIRUS DISEASE 2019 UPDATE (145): ANIMAL, ITALY, MINK, OIE

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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 Apr 2021

Source: OIE, WAHIS [edited]

<https://wahis.oie.int/#/report-info?reportId=32262>

Infection with SARS-CoV-2, Italy

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Summary

Report type: immediate notification

Date of start of the event: 18 Mar 2021

Date of confirmation of the event: 6 Apr 2021

Report date: 22 Apr 2021

Reason for notification: emerging disease

Morbidity: 0.59%

Mortality: -

Zoonotic potential: no

Causal agent: SARS-CoV-2

This event pertains a defined zone within the country.

New outbreaks (1)

Total outbreaks: 1

Outbreak location: Villa del Conte, Padua, Veneto

Date of start of the outbreak: 18 Mar 2021

Epidemiological unit: farm

Affected animals

Species / Susceptible / Cases / Deaths / Killed and disposed of / Slaughtered or killed for commercial use / Vaccinated

Mustelidae / 3379 / 20 / 0 / - / - / 0

Affected population: The minks were controlled in the framework of a national surveillance plan. A certain percentage of animals resulted seropositive with seroneutralization test. Some workers in the holding were seropositive as well. No symptoms or abnormal mortality was observed in the mink population.

Epidemiology

Source of the outbreak(s) or origin of infection: workers infected with SARS-CoV-2

Control measures applied in domestic: disinfection, disinfestation, movement control inside the country, screening, traceability, quarantine

Diagnostic test results

Laboratory name and type: Experimental Zooprophyllactic Institute (IZS), Venezie (national laboratory)

Species / Test / Test date / Result

Mustelidae / virus neutralization test (Ab VNT) / 6 Apr 2021 / positive

[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

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[The following abstract comes from a European Food Safety Authority (EFSA) scientific report titled "Monitoring of SARS-CoV-2 infection in mustelids," which is available in reference below:

Abstract:

"American mink and ferret are highly susceptible to severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), but no information is available for other mustelid species. SARS-CoV-2 spreads very efficiently within mink farms once introduced, by direct and indirect contact; high within-farm animal density increases the chance for transmission. Between-farm spread is likely to occur once SARS-CoV-2 is introduced; short distance between SARS-CoV-2-positive farms is a risk factor. As of 29 Jan 2021, SARS-CoV-2 virus has been reported in 400 mink farms in 8 countries in the European Union. In most cases, the likely introduction of SARS-CoV-2 infection into farms was infected humans. Human health can be at risk by mink-related variant viruses, which can establish circulation in the community, but so far these have not shown to be more transmissible or cause more severe impact compared with other circulating SARS-CoV-2. Concerning animal health risk posed by SARS-CoV-2 infection, the animal species that may be included in monitoring plans are American mink, ferrets, cats, raccoon dogs, white-tailed deer, and Rhinolophidae bats. All mink farms should be considered at risk of infection; therefore, the monitoring objective should be early detection. This includes passive monitoring (in place in the whole territory of all countries where animals susceptible to SARS-CoV-2 are bred) but also active monitoring by regular testing. First, frequent testing of farm personnel and all people in contact with the animals is recommended. Furthermore, randomly selected animals (dead or sick animals should be included) should be tested using reverse transcriptase-polymerase chain reaction (RT-PCR), ideally at weekly intervals (i.e., design prevalence approximately 5% in each epidemiological unit, to be assessed case by case). Suspected animals (dead or with clinical signs and a minimum 5 animals) should be tested for confirmation of SARS-CoV-2 infection. Positive samples from each farm should be sequenced to monitor virus evolution and results publicly shared."

Reference:

European Food Safety Authority and European Centre for Disease Prevention and Control. Boklund A, Gortazar C, Pasquali P, et al.: EFSA Journal- Scientific Report: Monitoring of SARS-CoV-2 infection in mustelids. Published online 3 Mar 2021; <https://doi.org/10.2903/j.efsa.2021.6459>. - Mod.CRD

HealthMap/ProMED map:

Padua, Veneto, Italy: <https://promedmail.org/promed-post?place=8322984,35263>

## See Also

COVID-19 update (140): animal, Latvia, mink, OIE 20210419.8314796

COVID-19 update (71): animal, mink, WHO/FAO/OIE risk assessment 20210218.8200008

COVID-19 update (68): animal-human interface, OIE, mink 20210216.8195382

COVID-19 update (58): animal, China, origin, WHO mission 20210210.8183343

COVID-19 update (53): animal, mink, Denmark, zoonotic aspects 20210207.8173294

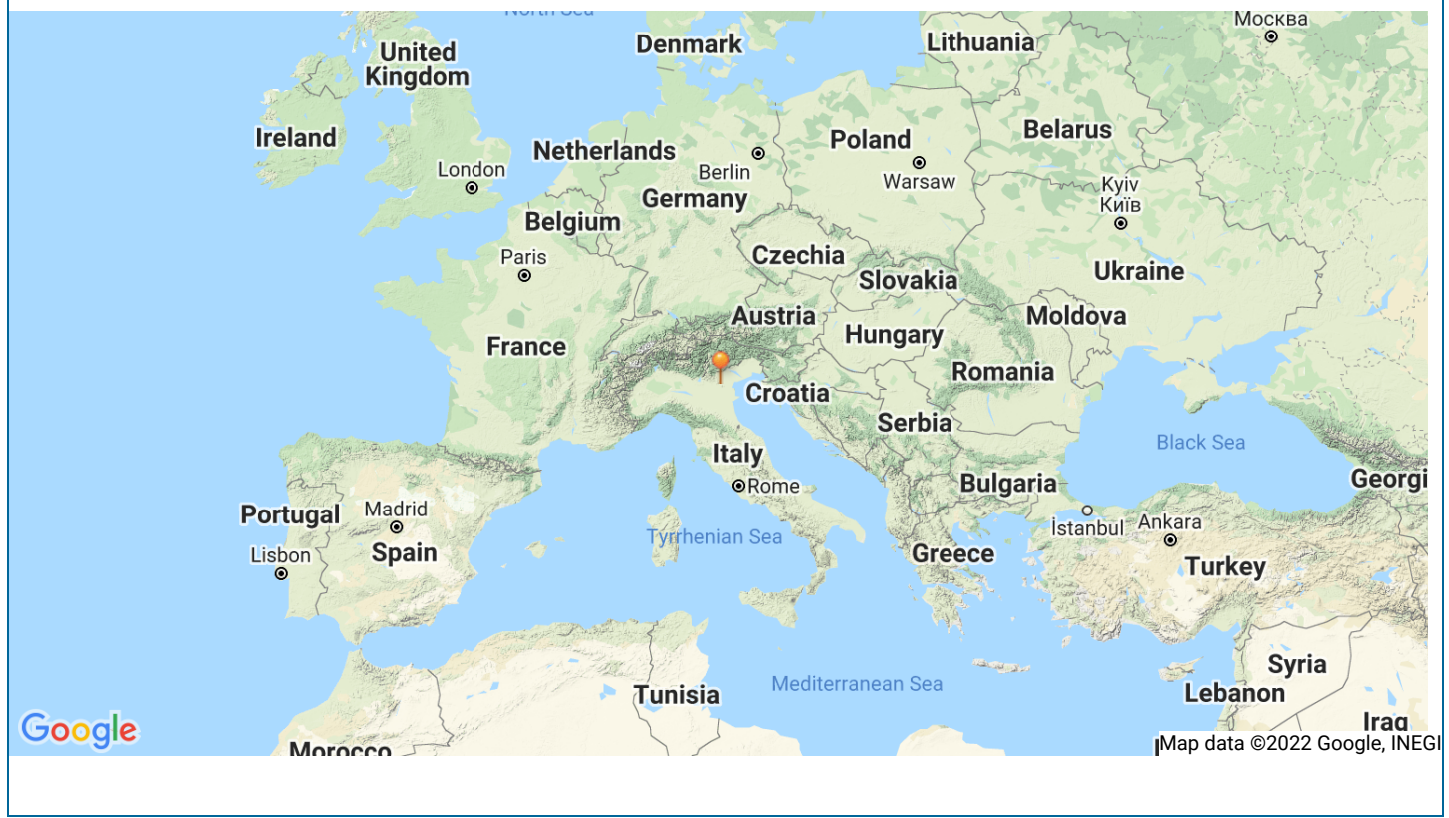
COVID-19 update (47): animal, Poland (PM) mink, OIE 20210204.8162830

COVID-19 update (39): animal, Spain, Switzerland, mink, cat, OIE 20210129.8146532  
2020

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COVID-19 update (549): animal, mink, Denmark, erad. Russia, vaccine, China, RFI 20201222.8039549  
COVID-19 update (546): animal, Sweden, mink, surveillance, spread, control, RFI 20201220.8033896  
COVID-19 update (542): animal, Greece (EM) mink mutation, human, OIE 20201218.8027113  
COVID-19 update (536): animal, USA (UT) wild mink, 1st case 20201213.8015608  
COVID-19 update (535): Denmark, animal, mink, zoonotic, cat, RFI 20201213.8015149  
COVID-19 update (530): animal, mink, research, experimental infection, vaccine 20201210.8009205  
COVID-19 update (531): animal, Canada (BC) mink, OIE 20201210.8008864  
COVID-19 update (527): animal, Greece (WM) mink, spread, genome analysis 20201208.8002636  
COVID-19 update (526): Canada (BC) animal, mink, human 20201208.8002622  
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 (477): animal, Sweden, mink, spread, genotyping 20201107.7924269  
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 (468): animal, Sweden, mink, 1st rep, OIE 20201103.7912846  
COVID-19 update (464): animal, Denmark, mink, control, One Health 20201101.7906484  
COVID-19 update (461): animal, Sweden, mink, 1st rep, RFI 20201030.7903582  
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 (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 (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 (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 (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 (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 (154): Netherlands (NB) animal, farmed mink, research 20200503.7294846  
COVID-19 update (146): Netherlands (NB) animal, farmed mink, epidemiology 20200501.7286113

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