

Information received on 06/04/2020 from Dr Mark Davidson, Associate Administrator, USDA-APHIS, United States Department of Agriculture, Washington, United States of America
Summary

Report type	nmediate notification			
Date of start of the event	27/03/2020			
Date of confirmation of the event 04/04/2020				
Report date	06/04/2020			
Date submitted to OIE	06/04/2020			
Reason for notification	Emerging disease			
Morbidity	2 (scale 0 to 5)			
Mortality	(scale 0 to 5)			
Zoonotic impact	Zoonotic potential currently unknown			
Causal agent	SARS-CoV-2/COVID-19			
Related reports	Immediate notification (06/04/2020) Follow-up report No. 1 (17/04/2020) Follow-up report No. 2 (22/04/2020) Follow-up report No. 3 (29/04/2020)			

New outbreaks (1)

Outbreak 1	В	Bronx County, Bronx, New York							
Date of start of the outbreak	2	27/03/2020							
Outbreak status	С	Continuing (or date resolved not provided)							
Epidemiological unit	Z	Zoo							
Affected animals		Species	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered		
		Lion:Panthera leo(Felidae)	3	1	0	0	0		
		Tiger:Panthera tigris(Felidae)	5	1	0	0	0		
Affected population	Α	dult lions and tigers in a zoo.							

Summary of outbreaks	Total outbreaks: 1								
	Species	Species			Cases	Deaths	Killed and d	isposed of	Slaughtered
Total animals affected	Lion:Panthera leo(Fel	3		1	0	C		0	
	Tiger:Panthera tigris(I		5	1	0		0	0	
Outbreak statistics	Species	Appare morbidity					parent case stality rate		susceptible als lost*
	Lion:Panthera leo(Felidae)	:	33.33%		0.00	%	0.00%		0.00%
	Tiger:Panthera tigris(Felidae)		20.00%	0.00		% 0.00%		0.00%	

Epidemiology

Source of the outbreak(s) or origin of infection	Suspected human transmission
comments	Five tigers and three lions were housed in two enclosures at a zoo. The first tiger showed clinical signs of disease on March 27. By April 3, three additional tigers and all lions were showing clinical signs. Clinical signs consisted of a dry cough and some wheezing; one animal had inappetence. None of the animals were in respiratory distress. The lions and tigers were isolated and no other animals at the zoo have shown any signs of respiratory disease. Samples were collected from the first affected tiger and it was confirmed positive for SARS-CoV-2/COVID-19. The other animals with clinical signs are also

presumed to be infected. All animals are stable and are recovering. It is assumed that an asymptomatic zoo employee infected the animals.

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	Species	Test	Test date	Result
Cornell University Animal Health Diagnostic Center (Local laboratory)	Tiger	gene sequencing	05/04/2020	Positive
Cornell University Animal Health Diagnostic Center (Local laboratory)	Tiger	real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)	03/04/2020	Positive
University of Illinois Veterinary Diagnostic Laboratory (Local laboratory)	Tiger	gene sequencing	05/04/2020	Positive
University of Illinois Veterinary Diagnostic Laboratory (Local laboratory)	Tiger	real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)	03/04/2020	Positive
National Veterinary Services Laboratories (National laboratory)	Tiger	gene sequencing	04/04/2020	Positive
National Veterinary Services Laboratories (National laboratory)	Tiger	real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)	04/04/2020	Positive

Future Reporting

The event is continuing. Weekly follow-up reports will be submitted.

Map of outbreak locations

