

Japan - SARS-CoV-2 in animals (Inf. with) - Follow-up report 7

GENERAL INFORMATION

COUNTRY/TERRITORY OR ZONE	ANIMAL TYPE	DISEASE CATEGORY	EVENT ID
COUNTRY/TERRITORY	TERRESTRIAL	Emerging	3310
DISEASE	CAUSAL AGENT	GENOTYPE / SEROTYPE / SUBTYPE	START DATE
SARS-CoV-2 in animals (Inf. with)	SARS-CoV-2	-	2020/07/26
REASON FOR NOTIFICATION	DATE OF LAST OCCURRENCE	CONFIRMATION DATE	EVENT STATUS
Emerging disease	-	2020/08/03	On-going
END DATE	SELF-DECLARATION		
-	NO		

REPORT INFORMATION

REPORT NUMBER	REPORT ID	REPORT REFERENCE	REPORT DATE
Follow-up report 7	FUR_159732	-	2023/03/10
REPORT STATUS	NO EVOLUTION REPORT		
Validated	-		

EPIDEMIOLOGY

SOURCE OF EVENT OR ORIGIN OF INFECTION

- Unknown or inconclusive
- Suspected human to animal transmission

EPIDEMIOLOGICAL COMMENTS

Among 23 lions kept, two lions (Lion #1&2) died with respiratory symptoms. Eight other lions (Lion #3-10) showed respiratory symptoms and recovered in 2-10 days, but positive results have not been confirmed. Human to animal transmission was suspected because the keeper had contracted the same disease with clinical signs at the same period. □Lion #1 (19-year-old male, with an underlying disease) : On 4 January 2023, coughing and nasal discharge were confirmed. While treatment was implemented, the lion died on 9 January. Tracheal swabs were collected and tested positive for SARS-CoV-2 by antigen detection rapid test. RT-PCR test was conducted by the National Institute for Infectious Diseases and the positive result was confirmed on 10 February. □Lion #2 (21-year-old female) : On 8 January 2023, coughing and nasal discharge were confirmed. On 12 January, the lioness died. Tracheal swabs were collected and tested positive for SARS-CoV-2 by antigen detection rapid test. RT-PCR test was conducted by the National Institute for Infectious Diseases and the positive result was confirmed on 10 February. □Lion #3-10 (age range: 8-19 years old) : From 8 to 19 January, coughing was observed. Since no symptoms were observed after 19 January, isolation was lifted on 2 February.

QUANTITATIVE DATA SUMMARY

MEASURING UNIT

Animal

Species		Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
cats	NEW	-	-	-	-	-	-
(domestic)	TOTAL	5	5	0	0	0	0
dogs	NEW	-	-	-	-	-	-
(domestic)	TOTAL	10	8	0	0	0	0
lion (wild)	NEW	23	2	2	0	-	-
	TOTAL	23	2	2	0	-	-
all species	NEW	23	2	2	0	-	-
	TOTAL	38	15	2	0	0	0

DIAGNOSTIC DETAILS

CLINICAL SIGNS

YES

METHOD OF DIAGNOSTIC

Diagnostic test

Test name	Laboratory	Species sampled	Number of outbreaks sampled	First result date	Latest result date	Result
Real-time reverse transcription polymerase chain reaction (rRT-PCR)	Anicom Specialty Medical Institute Inc.	Dogs	1	2021/09/01	2021/09/01	Positive
Virus neutralisation tests (Ab VNT)	The Institute of Medical Science, The University of Tokyo	Dogs	1	2020/08/31	2020/08/31	Positive
Enzyme-linked immunosorbent assay (ELISA)	The Institute of Medical Science, The University of Tokyo	Dogs	1	2020/08/31	2020/08/31	Positive
Real-time reverse transcription polymerase chain reaction (rRT-PCR)	Anicom Specialty Medical Institute Inc.	Cats	2	2020/09/12	2020/09/12	Positive
Reverse transcription-polymerase chain reaction (RT-PCR)	the National Institute for Infectious Diseases	Lion, Dogs	2	2020/08/14	2023/02/10	Positive
Real-time reverse transcription polymerase chain reaction (rRT-PCR)	the National Institute for Infectious Diseases	Lion	1	2021/09/15	2021/09/15	Positive
RT-PCR, DNA sequencing	the National Institute for Infectious Diseases	Cats, Dogs	4	2021/01/16	2021/02/22	Positive
Virus neutralisation test	the National Institute for Infectious Diseases	Dogs, Cats	3	2021/02/02	2021/03/09	Positive
Virus neutralisation tests (Ab VNT)	the National Institute for Infectious Diseases	Dogs	3	2020/08/25	2020/09/16	Positive
RT-PCR, DNA sequencing	Anicom Specialty Medical Institute Inc.	Cats	3	2021/01/13	2021/01/30	Positive
Gene sequencing	the National Institute for Infectious Diseases	Dogs	3	2020/08/03	2020/08/18	Positive

CONTROL MEASURES

CONTROL MEASURES AT EVENT LEVEL

Quarantine	Applied
Disinfection	Applied
Traceability	Applied

DOMESTIC ANIMALS

WILD ANIMALS

NEW OUTBREAKS

OB_115461 - SHIRAHAMA-TOWN

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
-	2023/01/04	-	-
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Wakayama	Shirahama	-	Zoo
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
Shirahama-Town	33.6782 , 135.3479 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

lion

Species (latin name)	Wildlife type	Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
lion (wild)	NEW	23	2	2	0	-	-
	TOTAL	23	2	2	0	-	-

METHOD OF DIAGNOSTIC

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CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED

ADDITIONAL MEASURES

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