

Follow-up report 6

24/08/2022

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

Sender	Country/territory	Report ID
Delegate of Brazil	Brazil	FUR_156615
Event status	Self-declaration	
On-going	No	

General information

Country or zone - Country	Disease - SARS-CoV-2 in animals (Inf. with)	Started on - 21/05/2020
Animal type - Terrestrial	Confirmed on - 16/10/2020	Causal agent - SARS-CoV-2
Disease category - Emerging	Reported on - 24/08/2022	Reason - Emerging disease

Disease impact

Outbreak morbidity - 1.0	Outbreak mortality - 0.0
Zoonotic potential - No	

Epidemiology

Source of the event or origin of the infection - Unknown or inconclusive

Epidemiological comments There is not an official SARCOV -2 surveillance programme for animal species in Brazil, but in the context of the COVID-19 pandemic there are some research centers running projects on the study of susceptibility of domestic and wild animal species to SARS-CoV-2 infection.

The Institute of Biological Sciences, at the Federal University of Minas Gerais, has a research project entitled "Prospecting and characterization of zoonotic viruses in forest remnants inserted in urban environments".

In early 2021, within the scope of this project, samples from 44 South American coatis (*Nasua nasua*), residing in an urban park in Belo Horizonte, were collected. A total of 3 samples were positive for the presence of SARS-CoV-2 RNA, referring to two female coatis captured in february 2021. The positive swab samples were subjected to whole genome sequencing, using MinION approach. One complete genome sequence was obtained from an anal swab. Phylogenetic analyzes inferred by the Maximum Likelihood method demonstrated the expected clustering with other SARS-CoV-2 genome sequences and confirmed that the sequence clusters with the P.2 (zeta) variant of SARS-CoV-2, circulating in Brazil.

The results of this study were reported to the Department of Animal Health in August 2022.

Diagnostic

Clinical signs - Yes

Method of diagnostic - Diagnostic test

Test name	Category	Test type	Laboratory	Species sampled	Outbreaks	Tested from	Tested until	Result
Virus sequencing	Genotyping	Laboratory Test	Laboratório Central de Saúde Pública, Fundação Ezequiel Dias, Belo Horizonte, Minas Gerais	South American Coati	1	16/11/2021		Positive
Real-time polymerase	Nucleic acid detection	Laboratory Test	Laboratório de Vírus,	South American	1	14/10/2021		Positive

chain reaction (real-time PCR)			Departamento de Microbiologia, Instituto de Ciências Biológicas, Universidade Federal de Minas Gerais	Coati				
Real-time reverse transcription polymerase chain reaction (rRT-PCR)	Nucleic acid detection	Laboratory Test	TECSA Laboratorios	Cats/Dogs	14	13/01/2021		Positive
Real-time reverse transcription polymerase chain reaction (rRT-PCR)	Nucleic acid detection	Laboratory Test	Laboratorio de Microbiología y Biología Molecular Veterinaria de la Universidad Federal de Mato Grosso	Cats/Dogs	1	16/10/2020		Positive
Real-time reverse transcription polymerase chain reaction (rRT-PCR)	Nucleic acid detection	Laboratory Test	Laboratório de Microbiologia Clínica - Universidade de Caxias do Sul National Laboratory	Cats/Dogs	1	05/03/2021		Positive
Real-time reverse transcription polymerase chain reaction (rRT-PCR)	Nucleic acid detection	Laboratory Test	Laboratorio de Bioquímica y Biología Molecular de la Universidad Federal de Paraná	Cats/Dogs	5	20/11/2020		Positive
Real-time reverse transcription polymerase chain reaction (rRT-PCR)	Nucleic acid detection	Laboratory Test	Laboratorio de Vírus Respiratórios e Sarampo (LVRS), Instituto Oswaldo Cruz, Fiocruz, RJ National Laboratory	Cats/Dogs	10	28/01/2021		Positive
Reverse transcription-polymerase chain reaction (RT-PCR)	Nucleic acid detection	Laboratory Test	Laboratorio de Microbiología y Biología Molecular Veterinaria de la Universidad Federal de Mato Grosso	Black-tailed Marmoset	1	19/01/2022		Positive
Reverse	Nucleic acid	Laboratory	Laboratorio	Giant	1	20/01/2022		Positive

transcription-polymerase chain reaction (RT-PCR)	detection	Test	de Microbiología y Biología Molecular Veterinaria de la Universidad Federal de Mato Grosso	Anteater				
Reverse transcription-polymerase chain reaction (RT-PCR)	Nucleic acid detection	Laboratory Test	Instituto Aggeu Magalhaes - Fundação Oswaldo Cruz - FIOCRUZ-PE	West Indian manatee	1	12/11/2020		Positive

Quantitative data summary

Measuring unit - Animal

Species	Type	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated	Outbreak morbidity	Outbreak mortality
Black-tailed Marmoset (Mico melanurus):Callitrichidae-Primates	New	-	-	-	-	-	-	-	-
Black-tailed Marmoset (Mico melanurus):Callitrichidae-Primates	Total	1	1	0	0	0	0	100.0	0.0
Cats	New	-	-	-	-	-	-	-	-
Cats	Total	40	15	1	0	0	0	37.5	2.5
South American Coati (Nasua nasua):Procyonidae-Carnivora	New	44	2	0	0	0	0	-	-
South American Coati (Nasua nasua):Procyonidae-Carnivora	Total	44	2	0	0	0	0	4.55	0.0
Dogs	New	-	-	-	-	-	-	-	-
Dogs	Total	39	20	0	0	0	0	51.28	0.0
West Indian manatee (Trichechus manatus):Trichechidae-Sirenia	New	-	-	-	-	-	-	-	-
West Indian manatee (Trichechus manatus):Trichechidae-Sirenia	Total	11	2	0	0	0	0	18.18	0.0
Giant Anteater (Myrmecophaga tridactyla):Myrmecophagidae-Pilosa	New	-	-	-	-	-	-	-	-
Giant Anteater (Myrmecophaga tridactyla):Myrmecophagidae-Pilosa	Total	1	1	0	0	0	0	100.0	0.0
All species	New	44	2	0	0	0	0	-	-
All species	Total	136	41	1	0	0	0	30.15	0.74

Event morbidity - 1.0
Morbidity range - 0-100

Event mortality - 0.0
Mortality range - 0-100

Outbreaks

ob_83236-CAXIAS DO SUL

Outbreak reference - RS01 Started on - 18/02/2021 First administrative division - Rio Grande do Sul

Ended on - 01/03/2021 Second administrative division - Caxias do Sul Epidemiological unit - Other

Geographic coordinates - -29.167778, -51.178889 Third administrative division - Ra 01 Location - CAXIAS DO SUL

Description of the affected populationDOMESTIC CAT (FELIS CATUS) IN A RESIDENTIAL HOME

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Cats	New	Animal	-	-	-	-	-	-
Cats	Total	Animal	3	1	0	0	0	0
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	3	1	0	0	0	0

Control measures different from event level

Additional measures - Quarantine

ob_86229-são paulo

Outbreak reference - SP03 Started on - 16/03/2021 First administrative division - São Paulo

Ended on - 30/03/2021 Second administrative division - São Paulo Epidemiological unit - Other

Geographic coordinates - -23.550278, -46.633889 Third administrative division - Se Location - são paulo

Description of the affected populationdomestic cat (felis catus) in a residential household

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Cats	New	Animal	-	-	-	-	-	-
Cats	Total	Animal	1	1	0	0	0	0
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	1	1	0	0	0	0

ob_83215-Rio de Janeiro

Outbreak reference - RJ01 Started on - 21/05/2020 First administrative division - Rio de Janeiro

Ended on - 05/06/2020 Second administrative division - Rio de Janeiro Epidemiological unit - Other

Geographic coordinates - -22.902778, -43.207778 Third administrative division - Portuaria Location - Rio de Janeiro

Description of the affected populationdomestic cat (felis catus) in a residential home.

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Cats	New	Animal	-	-	-	-	-	-
Cats	Total	Animal	1	1	0	0	0	0
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	1	1	0	0	0	0

Control measures different from event level

Additional measures - Quarantine

ob_86228-são paulo

Outbreak reference - SP02 Started on - 10/03/2021 First administrative division - São Paulo
 Ended on - 25/03/2021 Second administrative division - São Paulo Epidemiological unit - Other
 Geographic coordinates - Third administrative division - Se Location - são paulo
 -23.550278,
 -46.633889

Description of the affected populationdomestic dog (canis lupus familiaris) in a residential household

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Dogs	New	Animal	-	-	-	-	-	-
Dogs	Total	Animal	1	1	0	0	0	0
Cats	New	Animal	-	-	-	-	-	-
Cats	Total	Animal	1	0	0	0	0	0
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	2	1	0	0	0	0

ob_83232-SÃO PAULO

Outbreak reference - SP01 Started on - 22/12/2020 First administrative division - São Paulo
 Ended on - 06/01/2021 Second administrative division - São Paulo Epidemiological unit - Other
 Geographic coordinates - Third administrative division - Se Location - SÃO PAULO
 -23.550278,
 -46.633889

Description of the affected populationdomestic cat (felis catus) in a residential home

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Cats	New	Animal	-	-	-	-	-	-
Cats	Total	Animal	1	1	0	0	0	0
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	1	1	0	0	0	0

Control measures different from event level

Additional measures - Quarantine

ob_83230-BELO HORIZONTE

Outbreak reference - MG01 Started on - 20/01/2021 First administrative division - Minas Gerais
 Ended on - 14/02/2021 Second administrative division - Belo Epidemiological unit - Other

Horizonte

Geographic coordinates -
-19.916667,
-43.933333

Third administrative division - Centro-Sul Location - BELO HORIZONTE

Description of the affected populationdomestic dog (canis lupus familiaris) in a residential home

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Cats	New	Animal	-	-	-	-	-	-
Cats	Total	Animal	1	0	0	0	0	0
Dogs	New	Animal	-	-	-	-	-	-
Dogs	Total	Animal	2	1	0	0	0	0
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	3	1	0	0	0	0

Control measures different from event level

Additional measures - Quarantine

1000144290-Curitiba

Started on - 10/12/2020

First administrative division - Paraná

Ended on - 14/12/2020

Second administrative division - Curitiba

Epidemiological unit - Other

Geographic coordinates -
-25.429722,
-49.271944

Third administrative division - Matriz

Location - Curitiba

Description of the affected populationDomestic cat (Felis catus) in a residential household.

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Cats	New	Animal	-	-	-	-	-	-
Cats	Total	Animal	1	1	0	0	0	-
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	1	1	0	0	0	-

Control measures different from event level

Additional measures - Quarantine

1000144289-Curitiba

Started on - 22/11/2020

First administrative division - Paraná

Ended on - 07/12/2020

Second administrative division - Curitiba

Epidemiological unit - Other

Geographic coordinates -
-25.429722,
-49.271944

Third administrative division - Matriz

Location - Curitiba

Description of the affected populationDomestic dog (Canis lupus familiaris) in a residential household.

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Dogs	New	Animal	-	-	-	-	-	-
Dogs	Total	Animal	1	1	0	0	0	-
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	1	1	0	0	0	-

Control measures different from event level

Additional measures - Quarantine

1000144288-Curitiba

Started on - 21/11/2020

First administrative division - Paraná

Ended on - 07/12/2020

Second administrative division - Curitiba

Epidemiological unit - Other

Geographic coordinates -
-25.429722,
-49.271944

Third administrative division - Matriz

Location - Curitiba

Description of the affected population Domestic dog (Canis lupus familiaris) in a residential household.

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Dogs	New	Animal	-	-	-	-	-	-
Dogs	Total	Animal	1	1	0	0	0	-
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	1	1	0	0	0	-

Control measures different from event level

Additional measures - Quarantine

1000144049-Recife

Started on - 07/12/2020

First administrative division - Pernambuco

Ended on - 13/01/2021

Second administrative division - Recife

Epidemiological unit - Other

Geographic coordinates -
-8.053889,
-34.880833

Third administrative division - Rpa 3

Location - Recife

Description of the affected population Domestic cat (Felis catus) in a residential household. The positive cat was asymptomatic.

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Dogs	New	Animal	-	-	-	-	-	-
Dogs	Total	Animal	3	0	0	0	0	-
Cats	New	Animal	-	-	-	-	-	-
Cats	Total	Animal	1	1	0	0	0	-
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	4	1	0	0	0	-

Control measures different from event level

Additional measures - Quarantine

ob_101448-Ilha de Itamaracá

Started on - 05/11/2020

First administrative division - Pernambuco

Ended on - 21/11/2020

Second administrative division -
Itamaracá

Epidemiological unit - Other

Geographic coordinates -
-7.8089,-34.838Third administrative division - Ilha de
Itamaraca

Location - Ilha de Itamaracá

Description of the affected population In November of 2020, nasal swab samples of captive and free-ranging antillean manatees (Trichechus Manatus manatus) were collected as part of a testing routine for several diseases at National Center for Research and

Conservation of Aquatic Mammals located at Itamaracá Island/PE. Two animals from different enclosures of the center resulted positive in RT-PCR tests for SARS-CoV-2 performed by the Laboratory of Instituto Aggeu Magalhães from Fundação Oswaldo Cruz, in Recife, state of Pernambuco. Blood counts and biochemical serum test results did not show any abnormality in infected individuals. None of the animals presented clinical signs.

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
West Indian manatee (Trichechus manatus):Trichechidae-Sirenia	New	Animal	-	-	-	-	-	-
West Indian manatee (Trichechus manatus):Trichechidae-Sirenia	Total	Animal	11	2	0	0	0	0
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	11	2	0	0	0	0

1000144048-Moreno

Started on - 04/12/2020 First administrative division - Pernambuco Ended on - 13/01/2021
 Second administrative division - Moreno Epidemiological unit - Other Geographic coordinates -
 -8.118611,
 -35.092222
 Third administrative division - Moreno Location - Moreno

Description of the affected populationDomestic cat (Felis catus) in a residential household. The positive cat was asymptomatic.

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Cats	New	Animal	-	-	-	-	-	-
Cats	Total	Animal	2	1	0	0	0	-
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	2	1	0	0	0	-

Control measures different from event level

Additional measures - Quarantine

ob_101449-Cuiabá

Started on - 19/01/2022 First administrative division - Mato Grosso Ended on - 19/01/2022
 Second administrative division - Cuiaba Epidemiological unit - Not applicable Geographic coordinates -
 -15.5989,-56.0949
 Third administrative division - Coxipo da Ponte Location - Cuiabá

Description of the affected populationThe Veterinary Hospital at Federal University Mato Grosso (UFMT) has received a black-tailed marmoset (Mico melanurus) adult female found injured on a highway in the city of Cuiabá/MT. The animal died during treatment and samples of organs and an oropharyngeal swab were sent for laboratory analysis, resulting positive in RT-PCR test for SARS-CoV-2 performed by the Laboratory on Microbiology and Molecular Biology at UFMT. This species is usually found in the metropolitan region and may have occasional contact with humans.

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Black-tailed Marmoset (Mico melanurus):Callitrichidae-	New	Animal	-	-	-	-	-	-

Primates								
Black-tailed Marmoset (Mico melanurus):Callitrichidae-Primates	Total	Animal	1	1	0	0	0	0
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	1	1	0	0	0	0

ob_83218-Rio de Janeiro

Outbreak reference - RJ04 Started on - 28/05/2020 First administrative division - Rio de Janeiro

Ended on - 10/06/2020 Second administrative division - Rio de Janeiro Epidemiological unit - Other

Geographic coordinates - Third administrative division - Portuaria Location - Rio de Janeiro
-22.902778,
-43.207778

Description of the affected populationdomestic dog (canis lupus familiaris) and cat (felis catus) in a residential home

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Dogs	New	Animal	-	-	-	-	-	-
Dogs	Total	Animal	1	1	0	0	0	0
Cats	New	Animal	-	-	-	-	-	-
Cats	Total	Animal	2	1	0	0	0	0
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	3	2	0	0	0	0

Control measures different from event level

Additional measures - Quarantine

ob_83219-Rio de Janeiro

Outbreak reference - RJ05 Started on - 02/07/2020 First administrative division - Rio de Janeiro

Ended on - 17/07/2020 Second administrative division - Rio de Janeiro Epidemiological unit - Other

Geographic coordinates - Third administrative division - Portuaria Location - Rio de Janeiro
-22.902778,
-43.207778

Description of the affected populationdomestic dog (canis lupus familiaris) in a residential home

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Dogs	New	Animal	-	-	-	-	-	-
Dogs	Total	Animal	2	1	0	0	0	0
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	2	1	0	0	0	0

Control measures different from event level

Additional measures - Quarantine

ob_83216-Rio de Janeiro

Outbreak reference - RJ02 Started on - 05/06/2020 First administrative division - Rio de Janeiro

Ended on - 03/07/2020 Second administrative division - Rio de Janeiro Epidemiological unit - Other

Geographic coordinates - Third administrative division - Portuaria Location - Rio de Janeiro
-22.902777,
-43.207778

Description of the affected populationdomestic dog (canis lupus familiaris) and cat (felis catus) in a residential home

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Dogs	New	Animal	-	-	-	-	-	-
Dogs	Total	Animal	2	1	0	0	0	0
Cats	New	Animal	-	-	-	-	-	-
Cats	Total	Animal	5	1	0	0	0	0
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	7	2	0	0	0	0

Control measures different from event level

Additional measures - Quarantine

ob_83217-Rio de Janeiro

Outbreak reference - RJ03 Started on - 20/10/2020 First administrative division - Rio de Janeiro

Ended on - 04/11/2020 Second administrative division - Rio de Janeiro Epidemiological unit - Other

Geographic coordinates - Third administrative division - Portuaria Location - Rio de Janeiro
-22.902778,
-43.207778

Description of the affected populationdomestic cat (felis catus) in a residential home

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Cats	New	Animal	-	-	-	-	-	-
Cats	Total	Animal	1	1	0	0	0	0
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	1	1	0	0	0	0

Control measures different from event level

Additional measures - Quarantine

ob_83225-CAMPO GRANDE

Outbreak reference - MS01 Started on - 04/02/2021 First administrative division - Mato Grosso do Sul

Ended on - 20/02/2021 Second administrative division - Campo Grande Epidemiological unit - Other

Geographic coordinates - Third administrative division - Regiao Urbana do Centro Location - CAMPO GRANDE
-20.481389,
-54.616111

Description of the affected populationdomestic dog (canis lupus familiaris) in a residential home

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Dogs	New	Animal	-	-	-	-	-	-
Dogs	Total	Animal	2	1	0	0	0	0
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	2	1	0	0	0	0

Control measures different from event level

Additional measures - Quarantine

ob_83226-CAMPO GRANDE

Outbreak reference - MS02 Started on - 05/02/2021 First administrative division - Mato Grosso do Sul

Ended on - 20/02/2021 Second administrative division - Campo Grande Epidemiological unit - Other

Geographic coordinates - -20.481389, -54.616111 Third administrative division - Região Urbana do Centro Location - CAMPO GRANDE

Description of the affected populationdomestic cat (felis catus) in a residential home

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Dogs	New	Animal	-	-	-	-	-	-
Dogs	Total	Animal	1	0	0	0	0	0
Cats	New	Animal	-	-	-	-	-	-
Cats	Total	Animal	3	1	0	0	0	0
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	4	1	0	0	0	0

Control measures different from event level

Additional measures - Quarantine

ob_101450-Cuiabá

Started on - 20/01/2022 First administrative division - Mato Grosso Ended on - 20/01/2022

Second administrative division - Cuiaba Epidemiological unit - Not applicable Geographic coordinates - -15.5989,-56.0949

Third administrative division - Coxipo da Ponte Location - Cuiabá

Description of the affected populationThe Veterinary Hospital at Federal University Mato Grosso (UFMT) has received a giant anteater (Myrmecophaga tridactyla) young female injured on a road in the city of Cuiabá/MT which had received previous veterinary care in two private clinics for 10 days. The animal died 3 days later due to complications of multiple fractures. Samples of organs and an oropharyngeal swab were sent for laboratory analysis, resulting positive in the RT-PCR test for SARS-CoV-2 performed by the Laboratory on Microbiology and Molecular Biology at UFMT.

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Giant Anteater (Myrmecophaga tridactyla):Myrmecophagidae-Pilosa	New	Animal	-	-	-	-	-	-
Giant Anteater	Total	Animal	1	1	0	0	0	0

(Myrmecophaga tridactyla):Myrmecophagidae-Pilosa								
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	1	1	0	0	0	0

ob_83223-Rio de Janeiro

Outbreak reference - RJ09	Started on - 01/10/2020	First administrative division - Rio de Janeiro
Ended on - 28/01/2021	Second administrative division - Rio de Janeiro	Epidemiological unit - Other
Geographic coordinates - -22.902778, -43.207778	Third administrative division - Portuaria	Location - Rio de Janeiro

Description of the affected populationdomestic dog (canis lupus familiaris) in a residential home

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Dogs	New	Animal	-	-	-	-	-	-
Dogs	Total	Animal	1	1	0	0	0	0
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	1	1	0	0	0	0

Control measures different from event level

Additional measures - Quarantine

ob_83224-Rio de Janeiro

Outbreak reference - RJ10	Started on - 02/10/2020	First administrative division - Rio de Janeiro
Ended on - 06/11/2020	Second administrative division - Rio de Janeiro	Epidemiological unit - Other
Geographic coordinates - -22.902778, -43.207778	Third administrative division - Portuaria	Location - Rio de Janeiro

Description of the affected populationdomestic dog (canis lupus familiaris) in a residential home

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Dogs	New	Animal	-	-	-	-	-	-
Dogs	Total	Animal	1	1	0	0	0	0
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	1	1	0	0	0	0

Control measures different from event level

Additional measures - Quarantine

ob_83221-Rio de Janeiro

Outbreak reference - RJ07	Started on - 20/07/2020	First administrative division - Rio de Janeiro
Ended on - 08/08/2020	Second administrative division - Rio de Janeiro	Epidemiological unit - Other

Geographic coordinates -
-22.902778,
-43.207778

Third administrative division - Portuaria

Location - Rio de Janeiro

Description of the affected populationdomestic dog (canis lupus familiaris) in a residential home

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Dogs	New	Animal	-	-	-	-	-	-
Dogs	Total	Animal	1	1	0	0	0	0
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	1	1	0	0	0	0

Control measures different from event level

Additional measures - Quarantine

ob_83222-Rio de Janeiro

Outbreak reference - RJ08

Started on - 01/09/2020

First administrative division - Rio de Janeiro

Ended on - 15/10/2020

Second administrative division - Rio de Janeiro

Epidemiological unit - Other

Geographic coordinates -
-22.902778,
-43.207778

Third administrative division - Portuaria

Location - Rio de Janeiro

Description of the affected populationdomestic dogs (canis lupus familiaris) in a residential home

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Dogs	New	Animal	-	-	-	-	-	-
Dogs	Total	Animal	2	2	0	0	0	0
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	2	2	0	0	0	0

Control measures different from event level

Additional measures - Quarantine

1000144287-Curitiba

Started on - 19/11/2020

First administrative division - Paraná

Ended on - 30/11/2020

Second administrative division - Curitiba

Epidemiological unit - Other

Geographic coordinates -
-25.429722,
-49.271944

Third administrative division - Matriz

Location - Curitiba

Description of the affected populationDomestic dog (Canis lupus familiaris) in a residential household.

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Dogs	New	Animal	-	-	-	-	-	-
Dogs	Total	Animal	5	2	0	0	0	-
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	5	2	0	0	0	-

Control measures different from event level

Additional measures - Quarantine

1000144286-Curitiba

Started on - 12/11/2020

First administrative division - Paraná

Ended on - 20/11/2020

Second administrative division - Curitiba

Epidemiological unit - Other

Geographic coordinates -
-25.429722,
-49.271944

Third administrative division - Matriz

Location - Curitiba

Description of the affected population Domestic dog (Canis lupus familiaris) in a residential household.

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Dogs	New	Animal	-	-	-	-	-	-
Dogs	Total	Animal	1	1	0	0	0	-
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	1	1	0	0	0	-

Control measures different from event level

Additional measures - Quarantine

ob_83220-Rio de Janeiro

Outbreak reference - RJ06

Started on - 15/07/2020

First administrative division - Rio de Janeiro

Ended on - 27/07/2020

Second administrative division - Rio de Janeiro

Epidemiological unit - Other

Geographic coordinates -
-22.902778,
-43.207778

Third administrative division - Portuaria

Location - Rio de Janeiro

Description of the affected population domestic dog (canis lupus familiaris) in a residential home

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Dogs	New	Animal	-	-	-	-	-	-
Dogs	Total	Animal	2	1	0	0	0	0
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	2	1	0	0	0	0

Control measures different from event level

Additional measures - Quarantine

ob_86232-BRASÍLIA

Outbreak reference - DF01

Started on - 05/04/2021

First administrative division - Distrito Federal

Ended on - 10/04/2021

Second administrative division - Brasília

Epidemiological unit - Other

Geographic coordinates -
-15.793889,
-47.882778

Third administrative division - Brasília

Location - BRASÍLIA

Description of the affected population Domestic cat (Felis catus) in a residential home. The animal had severe respiratory failure that progressed to death. Other diseases were negative.

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and	Slaughtered	Vaccinated
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						disposed of		
Cats	New	Animal	-	-	-	-	-	-
Cats	Total	Animal	1	1	1	0	0	0
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	1	1	1	0	0	0

ob_86231-são paulo

Outbreak reference - SP05

Started on - 19/03/2021

First administrative division - São Paulo

Ended on - 03/04/2021

Second administrative division - São Paulo

Epidemiological unit - Other

Geographic coordinates -
-23.550278,
-46.633889

Third administrative division - Se

Location - são paulo

Description of the affected populationdomestic cat (felis catus) in a residential home

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Cats	New	Animal	-	-	-	-	-	-
Cats	Total	Animal	1	1	0	0	0	0
Dogs	New	Animal	-	-	-	-	-	-
Dogs	Total	Animal	2	0	0	0	0	0
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	3	1	0	0	0	0

ob_86230-são paulo

Outbreak reference - SP04

Started on - 01/04/2021

First administrative division - São Paulo

Ended on - 03/04/2021

Second administrative division - São Paulo

Epidemiological unit - Other

Geographic coordinates -
-23.550278,
-46.633889

Third administrative division - Se

Location - são paulo

Description of the affected populationdomestic dog (canis lupus familiaris) in a residential home

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Dogs	New	Animal	-	-	-	-	-	-
Dogs	Total	Animal	2	1	0	0	0	0
Cats	New	Animal	-	-	-	-	-	-
Cats	Total	Animal	9	0	0	0	0	0
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	11	1	0	0	0	0

1000138665-Cuiabá

Started on - 05/10/2020

First administrative division - Mato Grosso

Ended on - 16/10/2020

Second administrative division - Cuiaba

Epidemiological unit - Other

Geographic coordinates -
-15.5989,-56.0949

Third administrative division - Coxipo da Ponte

Location - Cuiabá

Description of the affected population A female domestic cat (*Felis catus*), without clinical signs. Oral and nasal swabs were taken from a cat and a dog asymptomatic living in a household with COVID-19 confirmed human cases. The first sample from the cat, collected on 5 October 2020, was RT-PCR positive at the laboratories of the two universities (results received on 16 and on 22 October); the second sample, collected on 16 October 2020, was negative to the test carried out at the laboratory of the University of Mato Grosso (result received on 23 October 2020). The dog's samples were negative.

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Cats	New	Animal	-	-	-	-	-	-
Cats	Total	Animal	1	1	0	0	0	-
Dogs	New	Animal	-	-	-	-	-	-
Dogs	Total	Animal	1	0	0	0	0	-
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	2	1	0	0	0	-

Control measures different from event level

Additional measures - Quarantine

ob_105859-Belo Horizonte

Started on - 17/02/2021 First administrative division - Minas Gerais Ended on - 17/02/2021
 Second administrative division - Belo Horizonte Epidemiological unit - Natural park Geographic coordinates - -19.945,-43.9151
 Third administrative division - Centro-Sul Approximate location - Yes Location - Belo Horizonte

Description of the affected population Samples from South American coati, *Nasua nasua*, were collected as part of a study carried out by Institute of Biological Sciences of the Federal University of Minas Gerais. The South American coati is a wild species that lives close to urban environments in frequent contact with humans.

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
South American Coati (<i>Nasua nasua</i>):Procyonidae-Carnivora	New	Animal	44	2	0	0	0	0
South American Coati (<i>Nasua nasua</i>):Procyonidae-Carnivora	Total	Animal	44	2	0	0	0	0
All species	New	Animal	44	2	0	0	0	0
All species	Total	Animal	44	2	0	0	0	0

ob_83229-CAMPO GRANDE

Outbreak reference - MS05 Started on - 27/02/2021 First administrative division - Mato Grosso do Sul
 Ended on - 14/03/2021 Second administrative division - Campo Grande Epidemiological unit - Other
 Geographic coordinates - -20.481389, -54.616111 Third administrative division - Região Urbana do Centro Location - CAMPO GRANDE

Description of the affected population domestic dog (*canis lupus familiaris*) in a residential home

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
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Cats	New	Animal	-	-	-	-	-	-
Cats	Total	Animal	3	0	0	0	0	0
Dogs	New	Animal	-	-	-	-	-	-
Dogs	Total	Animal	3	1	0	0	0	0
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	6	1	0	0	0	0

Control measures different from event level

Additional measures - Quarantine

ob_83227-CAMPO GRANDE

Outbreak reference - MS03	Started on - 15/02/2021	First administrative division - Mato Grosso do Sul
Ended on - 02/03/2021	Second administrative division - Campo Grande	Epidemiological unit - Other
Geographic coordinates - -20.481389, -54.616111	Third administrative division - Regiao Urbana do Centro	Location - CAMPO GRANDE

Description of the affected populationdomestic cat (felis catus) in a residential home

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Cats	New	Animal	-	-	-	-	-	-
Cats	Total	Animal	2	1	0	0	0	0
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	2	1	0	0	0	0

Control measures different from event level

Additional measures - Quarantine

ob_83228-CAMPO GRANDE

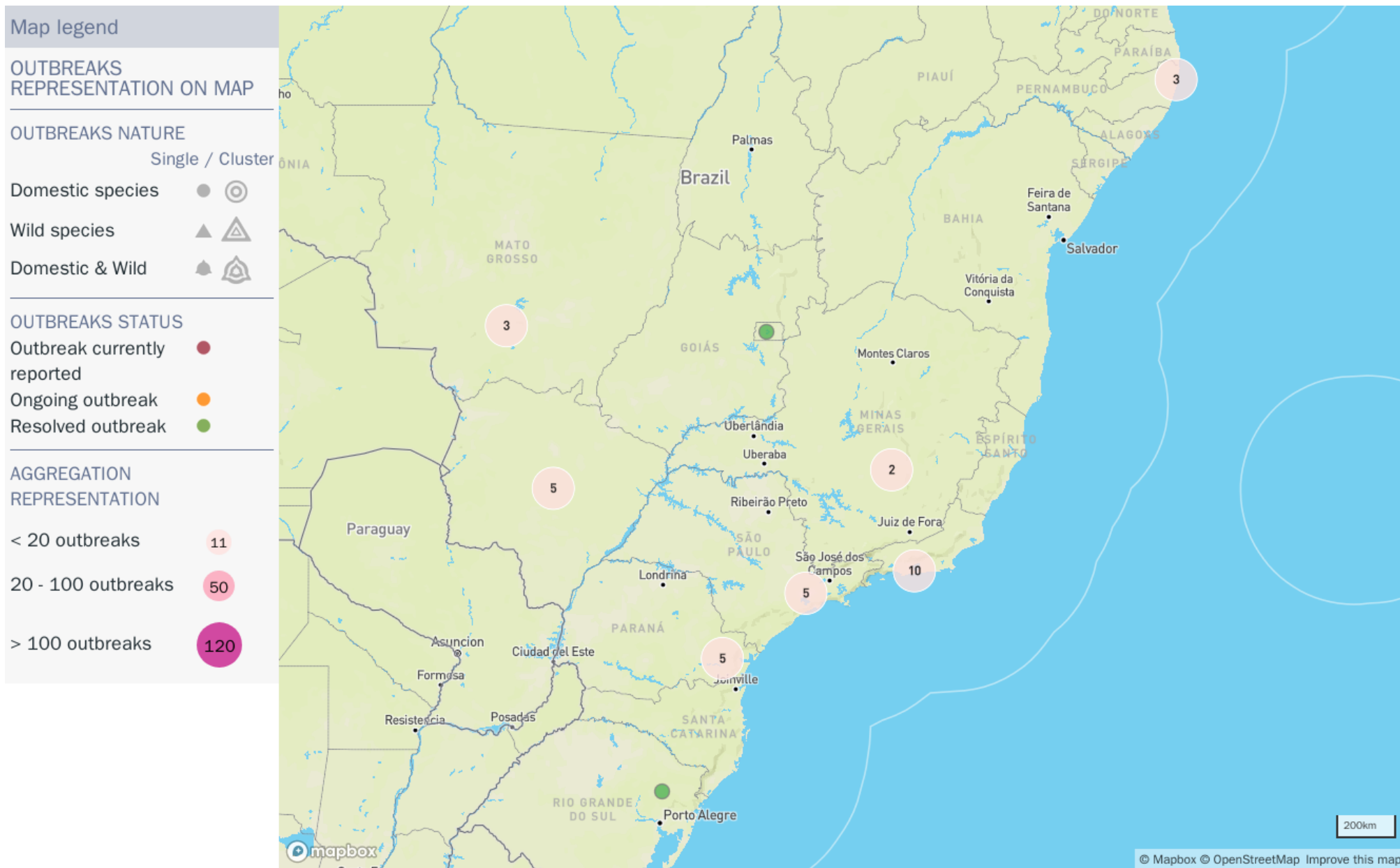
Outbreak reference - MS04	Started on - 18/02/2021	First administrative division - Mato Grosso do Sul
Ended on - 05/03/2021	Second administrative division - Campo Grande	Epidemiological unit - Other
Geographic coordinates - -20.481389, -54.616111	Third administrative division - Regiao Urbana do Centro	Location - CAMPO GRANDE

Description of the affected populationdomestic dog (canis lupus familiaris) in a residential home

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
Dogs	New	Animal	-	-	-	-	-	-
Dogs	Total	Animal	2	1	0	0	0	0
All species	New	Animal	-	-	-	-	-	-
All species	Total	Animal	2	1	0	0	0	0

Control measures different from event level

Additional measures - Quarantine



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