

## Follow-up report 2

22/01/2021

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

Sender	Country/territory	Report ID
Delegate of Brazil	Brazil	FUR_37718
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 - 22/01/2021	Reason - Emerging disease

### Disease impact

Outbreak morbidity - 1.0	Outbreak mortality - 0.0
Zoonotic potential - Yes	Zoonotic potential description - Zoonotic potential currently unknown

### Epidemiology

Source of the event or origin of the infection - Probable contacto con caso humano

Epidemiological comments These tests are part of a research project on pets living in households with confirmed human cases of recent SARS CoV-2 infection. The SARS CoV-2 surveillance study (PetCOVID-19 Study) is carried out within the One Health framework and is coordinated by the Federal University of Paraná, with the participation of other federal universities in several States of the country.

### Control measures at event level

#### Domestic control measures

Applied - Quarantine

#### Wild control measures

Applied - Quarantine

### Diagnostic

Clinical signs - No

Method of diagnostic - Diagnostic test

Test name	Category	Test type	Laboratory	Species sampled	Outbreaks	Tested from	Tested until	Result
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	Dogs		20/11/2020		Positive
Real-time reverse transcription polymerase chain reaction	Nucleic acid detection	Laboratory Test	Laboratorio de Bioquímica y Biología Molecular de	Cats		11/12/2020		Positive

reaction (rRT-PCR)			la Universidad Federal de Paraná					
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		16/10/2020		Positive
Real-time reverse transcription polymerase chain reaction (rRT-PCR)	Nucleic acid detection	Laboratory Test	TECSA Laboratorios	Dogs		27/11/2020		Positive
Reverse transcription- polymerase chain reaction (RT- PCR)	Nucleic acid detection	Laboratory Test	Laboratorio de Bioquímica y Biología Molecular de la Universidad Federal de Paraná	Cats		22/10/2020		Positive
Polymerase chain reaction (PCR)	Nucleic acid detection	Laboratory Test	Laboratorio de Bioquímica y Biología Molecular de la Universidad Federal de Paraná	Dogs		19/11/2020		Positive
Polymerase chain reaction (PCR)	Nucleic acid detection	Laboratory Test	Laboratorio de Bioquímica y Biología Molecular de la Universidad Federal de Paraná	Dogs		20/11/2020		Positive
Polymerase chain reaction (PCR)	Nucleic acid detection	Laboratory Test	Laboratorio de Bioquímica y Biología Molecular de la Universidad Federal de Paraná	Dogs		23/11/2020		Positive
Polymerase chain reaction	Nucleic acid detection	Laboratory Test	Laboratorio de Bioquímica y	Dogs		23/11/2020		Positive

(PCR)			Biología Molecular de la Universidad Federal de Paraná					
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## Quantitative data summary

### Measuring unit - Animal

Species	Type	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated	Outbreak morbidity	Outbreak mortality
Cats	New	4	3	0	0	0	-	-	-
Cats	Total	5	4	0	0	0	-	80.0	0.0
Dogs	New	11	5	0	0	0	-	-	-
Dogs	Total	12	5	0	0	0	-	41.67	0.0
All species	New	15	8	0	0	0	-	-	-
All species	Total	17	9	0	0	0	-	52.94	0.0

Event morbidity - 1.0

Event mortality - 0.0

## Outbreaks

### 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 populationA 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	-

### 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	5	2	0	0	0	-
Dogs	Total	Animal	5	2	0	0	0	-
All species	New	Animal	5	2	0	0	0	-
All species	Total	Animal	5	2	0	0	0	-

### 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 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	1	1	0	0	0	-
Dogs	Total	Animal	1	1	0	0	0	-
All species	New	Animal	1	1	0	0	0	-
All species	Total	Animal	1	1	0	0	0	-

### 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	1	1	0	0	0	-
Dogs	Total	Animal	1	1	0	0	0	-
All species	New	Animal	1	1	0	0	0	-
All species	Total	Animal	1	1	0	0	0	-

### 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 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	1	1	0	0	0	-

Dogs	Total	Animal	1	1	0	0	0	-
All species	New	Animal	1	1	0	0	0	-
All species	Total	Animal	1	1	0	0	0	-

#### 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 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
Dogs	New	Animal	3	0	0	0	0	-
Dogs	Total	Animal	3	0	0	0	0	-
Cats	New	Animal	1	1	0	0	0	-
Cats	Total	Animal	1	1	0	0	0	-
All species	New	Animal	4	1	0	0	0	-
All species	Total	Animal	4	1	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	2	1	0	0	0	-
Cats	Total	Animal	2	1	0	0	0	-
All species	New	Animal	2	1	0	0	0	-
All species	Total	Animal	2	1	0	0	0	-

#### 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	1	1	0	0	0	-
Cats	Total	Animal	1	1	0	0	0	-

All species	New	Animal	1	1	0	0	0	-
All species	Total	Animal	1	1	0	0	0	-



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