Epidemiology and surveillance

ANIMAL RABIES IN THE STATE OF CEARÁ, BRAZIL:

POSITIVITY PATTERN OVER A 21-YEAR PERIOD

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INTRODUCTION

Despite being known since ancient times, rabies remains a public health issue.

OBJECTIVE

To describe the temporal trend of positive rabies cases in animals in the state of Ceará between 2003 and 2023.

METHODS

Ceará is located in Northeast Brazil. Secondary data from the Ceará Health Department and the Ceará Agricultural Defense Agency were used. Absolute and relative frequencies of confirmed cases by direct immunofluorescence and biological testing of

calculated.

regression with the Joinpoint Program and the Poisson model with

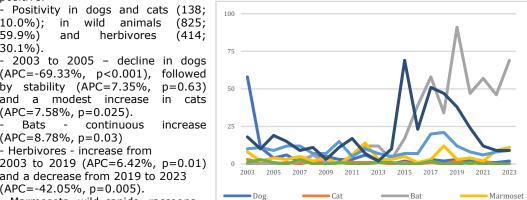


RESULTS

59.9%)

Graph 1. Positivity pattern for animal rabies in Ceará, - 19,249 samples; 1,377 (7.27%) 2003 to 2023 positive.

Segmental



Herbivores

Raccoon

logarithmic

30.1%). - 2003 to 2005 - decline in dogs (APC=-69.33%, p<0.001), followed

10.0%); in wild animals

and

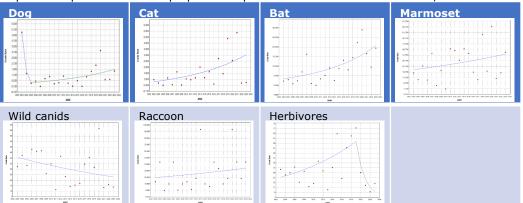
by stability (APC=7.35%, p = 0.63) and a modest increase in cats

herbivores

per year were

- (APC=7.58%, p=0.025).Bats continuous increase (APC=8.78%, p=0.03)- Herbivores - increase from
- 2003 to 2019 (APC=6.42%, p=0.01) and a decrease from 2019 to 2023 (APC=-42.05%, p=0.005).
- Marmosets, wild canids, raccoons -





CONCLUSION

- There were changes in the positivity dynamics. Since 2015, non-hematophagous bats have been the primary reservoirs of the
- virus. The increase in cases among herbivores is also noteworthy.
- The rise in positivity in wild animals increases the risk of transmission to other animal species and humans. Author's email: katarinypinheiro7@gmail.com