

WORK INVOLVING SAVSNET RESEARCHERS

EVIDENCE OF EXPOSURE TO SARS-COV-2 IN CATS AND DOGS FROM HOUSEHOLDS IN ITALY Initially published in BioRxiv available here.

Peer reviewed updated paper published in Nature Communications available here

This work involved: Departments of Vector Biology and Tropical Disease Biology, Centre for Neglected Tropical Disease, Liverpool School of Tropical Medicine, Liverpool, UK; Department of Veterinary Medicine, University of Bari, Valenzano, Italy; I-VET srl, Laboratorio di Analisi Veterinarie, Flero, Italy; Department of Veterinary Medicine, University of Milan, Milan, Italy; La Vallonea Veterinary Diagnostic Laboratory, Passirana di Rho, Italy; Institute of Infection, Veterinary and Ecological Sciences, University of Liverpool, Neston, UK; Arcoblu s.r.l., Milan, Italy; City University s Jockey Club College of Veterinary Medicine and Life Sciences, Hong Kong;.



SARS-COV-2

SARS-CoV-2 originated in animals and is now easily transmitted between people.



ANIMAL INFECTION

SARS-CoV-2 emerged from animals and is now widely transmitted between people. Field and experimental observations suggest some animals (cats, ferrets and dogs) could be infected by their carers.





STUDY

Here we report a large-scale study to assess SARS-CoV-2 infection in 919 companion animals living in northern Italy, sampled at a time of frequent human infection.

ANTIBODIES

No animals tested PCR positive. However, 3.3% of dogs and 5.8% of cats had measurable SARS-CoV-2 neutralizing antibody titers. Dogs from COVID-19 positive households were significantly more likely to test positive.



TRANSMISSION

Infections of pet animals are unlikely to have much consequence to humans. However, animal-to-human transmission may be more likely in animal population densities that are high. As testing becomes more accessible, surveillance of those pets most at risk may be advocated.



THANK YOU

We are particularly proud of SAVSNET's Research Technician Dr Shirley Bonner for being involved in this work throughout the COVID-19 pandemic, and would also like to thank Dogs Trust for funding Shirley's involvement through SAVSNet-Agile.