

TITLE: Antimicrobial susceptibility profile from oral micro-organisms from FIV-and FeLV-infected cats in the Veterinary Hospital in Sobral-CE

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ABSTRACT:

Feline immunodeficiency virus (FIV) and the feline leukemia virus (FeLV), retroviruses, are among the most common infection agents of cats. Both viral infections are global, widespread and related to development of diseases which can cause an acquired immune deficiency syndrome, which predisposes cats to other infections, inclusive through commensal micro-organisms, secondary bacterial infections. The objective of this work was to evaluate the antimicrobial susceptibility profile from oral micro-organisms of domestic felines previously diagnosed with FIV and/or FeLV infections. Two felines were previously seropositive identified, one for FIV and another for FeLV, SNAP Combo FeLV Ag/FIV Antibody Test IDEXX[®] - CEUA: 21509001-P). Then, the sample from oral cavity was collected using sterile swabs and AMIES, media for transport. Subsequently, all sample were plated into selectively agar media, Mitis Salivarius agar (MSA), Baird Parker agar and Cetrimide agar, to presumptive identification. However, the VITEK2 automatized system was used for final micro-organism identification, as well as antibiotic sensibility tests (TSA) of the micro-organisms. For selective media, in the two samples wasn't detected *Pseudomonas* strains. Differently, to MSA media, which detected in two animals tested the presence of the *Streptococcus* strains. Whereas the growth of *Staphylococcus spp.* was positive only for FeLV infected cat animal for FeLV. This last bacterium was identified by VITEK2 as *Staphylococcus sciuri*, which presented resistance against Benzilpenicilin. From the presented results and the reported importance of these two retroviral illnesses in the veterinary medicine, the impact of feline retroviruses infection on the oral microbial communities and the clinical relevance of altered microbiotas require further study.

Keywords: FIV, FeLV, secondary bacterial infections

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