

Poster Abstracts

P61: IMMUNOHISTOCHEMICAL STUDY OF TNF IN CANINE CYSTIC ENDOMETRIAL HYPERPLASIA

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Introduction: Tumour Necrosis Factor (TNF) has been identified in the uterus of several species and show changes in expression in some pathological conditions. The aim of this study was to evaluate TNF immunoexpression in canine endometrium with Cystic Endometrial Hyperplasia (CEH; n=20) and to compare it with postpartal samples (PP; n=5).

Materials and Methods: Canine uteri presenting CEH were submitted to histological classification according to Dow's (I, II, III, IV). Immunohistochemistry with a specific monoclonal primary antibody raised against canine TNF molecule (sc-80386; Santa Cruz Biotechnology), n, was used at a 1:50 dilution. An immunostaining intensity score (1-3) was used in the superficial and glandular epithelia (SE and GE) and in cystic epithelium (CE).

Results: Our results found more heterogeneous TNF immunoreaction in almost all the CEH samples, in comparison with PP, that might be associated with the inflammatory infiltrate in the CEH uterus (II, III and IV). Overall TNF positivity was different between CEH and PP samples. In CEH, stronger intensities were found in the SE than in GE, whilst in the CE, lower scores were observed. Higher intensities of immunoreaction against TNF were particularly found in early stages of CEH, and that might be involved in the pathology of the process.

