

León 2012

Joint Meeting of

30th Meeting of the European Society of Veterinary Pathology
Annual Meeting of the European College of Veterinary Pathologists
24th Annual Meeting of the Spanish Society of Veterinary Pathology

León (Spain) September 5th to 8th of 2012



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This meeting is dedicated to honour

Prof. Franco Guarda

León (Spain) September 5th to 8th 2012



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**P175- TNF STAINING PATTERN ON GLANDULAR AND CYSTIC
CANINE ENDOMETRIAL EPITHELIA**

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Introduction: Tumour Necrosis Factor (TNF) is involved in tissue regeneration and destruction. It has been found in the uterus of several species, where it shows different expression patterns during disease. This study aimed to compare the cellular pattern of TNF immunorexpression in canine endometrial epithelia in Cystic Endometrial Hyperplasia samples (CEH; n= 48) and control cyclic and postpartal samples (45 and 10 samples, respectively).

Materials and Methods: Immunohistochemistry with a specific primary antibody against canine TNF (sc-80386; Santa Cruz Biotechnology; 1:50) was used. The results for TNF immunostaining in the glandular or cystic epithelium were classified as homogeneous or heterogeneous. The presence of cytoplasmic, membrane, focal or diffuse staining was also recorded.

Results and discussion: In postpartum and cyclic endometrium an uniform pattern for TNF was found, with sub-cellular location at the cytoplasm and cell membrane. In contrast, in CEH samples the most striking difference was the heterogeneous mosaic pattern for TNF in the cystic epithelium, with focal positive signal in individual cells alternating with negative adjacent cells. An increased proportion of positive cells was observed in areas of major glandular dysplasia. Most positive cells showed apical immunostaining reinforcement.

Conclusion: Diseased and healthy endometrial epithelium express a marked distinctive pattern for TNF, suggestive of its possible involvement in the pathology of the CEH process.