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## Sensibility Cell Block (FNA) for detection of CK5, ER and PR in spontaneous mammary carcinoma in female dogs

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Breast carcinoma in a dog is a malignant disease relatively frequent in bitches of 10 years old, displays important morbidity and evolve to death. The cell block for the diagnosis of injury in women is the method of choice in the investigation, because it provides subsidies to provide for response to therapy. However, for the dog is unknown the application of this technique, therefore, this study aimed to correlate the morphological patterns of canine mammary tumors between cell block technique and surgical specimen and compare the immunohistochemical marking of ER, PR and CK5 between the two methods in 23 animals. After the diagnosis of breast carcinoma made by cytological exam the animal was submitted to mastectomy, FNA for cell block was made in the surgical specimen. The cell block and surgical specimens were submitted to histological processing, preparation of slides for HE and subsequent immunohistochemistry (IQ) for estrogen receptor  $\alpha$  (ER) and cytokeratin 5 (CK5). Were considered positive for ER and CK5 the cases where there was marking on more than 10% of neoplastic cells. The level of agreement between the cell block and the surgical specimen was 86.9% for CK5 and 82.6% for the RE. Finally, the procedure that has been established for the woman when applied in dog kept the same benefits, such as affordable method, time and limited financial resources, sensitivity and specificity expressive. Therefore it validates the technique for the diagnosis of breast cancer in dogs.

### Biography

Noeme Sousa Rocha is graduated in Veterinary Medicine from the State University of Maranhão (1989), Masters in Pathology from the Sao Paulo State University (1994) and PhD in Pathology from the Sao Paulo State University (1998). It is currently - Journal of Animal Science Faculty, Veterinary Medicine and Agronomy (Urugaiana) and associate professor of Sao Paulo State University. Has experience in the area of veterinary medicine, with emphasis on Animal Pathology Anatomy, acting on the following topics: veterinary, cytopathology, pathology, cancer and histopathology. Associate member of the International Academy of Pathology.

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