

**Title: : Sensibility of cell block technique and osteocalcin immunohistochemistry at the osteosarcoma diagnosis**

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Osteosarcoma (OSA) is the most common type of bone tumor. It could range about 85% of malignant primary neoplasms of skeleton. In Brazil almost 75% of OSA reach appendicular skeleton while 25% compromise the axial skeleton. The cell block technique is a procedure that is commonly used at the human medicine. But at the veterinary medicine we have few reports. The aim of this work was qualify the sensibility of cell block and osteocalcin immunohistochemistry at the diagnosis of OSA in dogs. Ten cases of primary OSA of dogs were approached by the cell block and immunoassay to osteocalcin technique. The positive control was the histopathological exam of each tumor. The results were positive about the quality of sample, facility of procedure, time and low cost, sensibility and specificity expressive. Therefore it validates the technique for the diagnosis of OSA cancer in dogs.