INTRODUCTION

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 (CB) is a procedure that is commonly used at the human medicine. But at the veterinary medicine we have few reports.

METHODS

Ten cases of primary OSA of dogs were approached by the CB and immunoassay to osteocalcin technique as follow: 1. Antigenic retrieval in pH 6.0 citrate at the Pascal. 2. Endogenous peroxidase block was performed in H2O2 3% diluted in metanol. 3. Protein block was performed with 6% Molico® milk. 4. All incubations of primary antibody were performed at 4°C temperature overnight. At 1:50 work antibody concentration. 5. Second antibody HRP (envision). 6. DAB – 5 minutes. The positive control was the histopathological exam of each tumor.

RESULTS

All 10 cases had positive correlation between CB and histopathological analysis with good amount of sample at the CB technique (10/10).

CONCLUSION

The cell block technique is valid for the diagnosis of OSA cancer in dogs.