Resumo 47

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CASE REPORT: SPLENIC LIPOSARCOMA IN A MARSH DEER (*Blastocerus dichotomus*). LINARD, J.L.¹; ZANETTI, E.S.¹; SCATTONE, N.V.^{4*}; YAMAMORA, J.M.^{4*}; SILVA, D.A.^{4*}; DEL FAVA, C.⁴ ¹Centro de Conservação do Cervo-do-Pantanal (CCCP), Promissão, SP, Brasil, ²Instituto Biológico (IB), Centro de Pesquisa de Sanidade Animal, Laboratório de Anatomia Patológica, São Paulo, SP, Brasil. E-mail: claudia.fava@sp.gov.br. **Relato de caso: lipossarcoma esplênico em um cervo do Pantanal.**

Liposarcomas are malignant tumors of mesenchymal lineage, characterized by proliferation of lipocytes. There are no reports in the marsh deer (*Blastocerus dichotomus*), a species listed as vulnerable on the Brazilian Red List of Threatened Species and classified as critically endangered in the São Paulo State. It was reported a necropsy finding in the spleen of an 11 year-old female deer, who died of head trauma. The animal was kept in captivity from birth in the Centro de Conservação do Cervo do Pantanal, in Promissão city, São Paulo State, Brazil. The spleen presented multiple red to bluish-purple rounded masses protruding from the splenic capsule and getting inside the organ, measuring from 0.5 to 8 cm on its diameter. There was no lesion in other organs. Tissue samples were stained by hematoxylin and eosin for histological analysis. Additional slides, along with controls, were processed by the immunohistochemistry (IHC). Primary antibodies used for tumor immunophenotyping were anti-S100 (polyclonal), Vimentin (clone V9), Desmin (clone D33) and Actin alpha smooth muscle (clone 1A4). The histopathology showed well-circumscribed, nonencapsulated, highly cellular masses (anaplastic cells) of round to polyhedral cells primarily and fewer stellate, spindle, and multinucleated cells, cytoplasmic vacuolation that may be numerous fine vacuoles or a single large clear vacuole that displaces the nucleus peripherally. No mitotic figures were observed. There were also multiple foci of hemorrhage and necrosis within the tumor masses. The IHC phenotype was positive for S100 (adipocyte marker) and Vimentin (intermediate filament of mesenchymal cells). The morphological analysis and the IHC profile characterized splenic liposarcoma, showing the necessity for establishing cancer prevalence in wildlife species and its importance to conservation.

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