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P#60

Two Different Types of B-cell Lymphoma in Canine

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Tumors of spleen in two dogs (a 12-year-old, castrated female Pomerania and a 6-year-old, male Shitzu) were diagnosed as B-cell lymphoma, malignant pleomorphic large B-cell lymphoma and lymphoplasmocytic lymphoma, respectively. Clinical signs of two were similar such as primarily persistent vomiting, fever and pain in abdominal region. Mild to moderate splenomegaly were also observed on radiographic examination. Histologic evaluation revealed pleomorphic large lymphocytes were scattered with scant cytoplasm and indistinct nucleoli in red pulp for the former case. Brisk mitotic activity and multilobated and folded large L&H cells

positive immunoreactivity for CD20 representing pleomorphic large B-cell lymphoma. The second splenectomized case had diffuse hemorrhage and infarction. The spleen composed of cells similar to monocytoid B-cells with variable degrees of plasmacytic differentiation. In addition, immunohistochemical findings confirmed B-cell origin neoplastic cells by Bcl-2 and CD-20 positive expression. Above two cases showed B-cell origin lymphoma of spleen, pleomorphic large B-cell lymphoma and lymphoplasmocytic lymphoma using variable expression of epithelial membrane antigens. We have described a unique morphologic variant of splenic B-cell lymphoma and the practical significance of the findings presented lies in the histologic differential diagnosis of rare B-cell lymphoma in animal.

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P#61

Angiofibrosarcoma of the Oral Cavity in a Dog

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