HEPATIC MYSTERY MASS

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Case number 58 (Slide number 13-124132)
Signalment and History

- 14 yr. old, spayed-female, German Shepherd dog

- Dx: indolent B-cell splenic lymphoma in 2011
  - Splenectomy
  - Chemotherapy with piroxicam and prednisone
    - No complications
Return to Auburn, September 2013

- Acute onset of weakness and rear limb ataxia

- Clinical Pathology
  - Anemia PCV: 28.5% (38.7% - 59.2%)
  - Neutrophilia 32,200/μL (2,600 - 10,400/μL)

- Hepatic mass identified via ultrasonography

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Gross description

- 12.0 x 9.0 x 7.3-cm poorly defined, pale tan mass mottled with random, coalescing areas of hemorrhage and necrosis effacing over 90% of the right lateral liver lobe
Subgross

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Biphasic neoplasm arranged in distinct follicles and densely cellular sheets
Follicular subset

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Polygonal to histiocytic subset

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IHC: Comparison

CD18

CD79a

100X

40X

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IHC: CD3

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IHC: Differential diagnoses

CD31

CK18
Morphologic Diagnosis

- Hepatic histiocytic sarcoma
- Hepatic follicular B-cell lymphoma
Histiocytic sarcoma arising via transdifferentiation from follicular lymphoma

Gene rearrangement in Ig heavy chain and bcl-2
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Questions