Gall Bladder Distension in a Dog

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Artwork by Judith Webb
(http://www.minigallery.co.uk/Judith_Webb/picture.asp?pid=33257)

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Patient Signalment & History

- FS 10 year old Jack Russell terrier
- Several months of elevated SAP and ALP
- Ultrasound revealed distended gall bladder full of sludge and small nodule on spleen
- Excised gall bladder had a very thickened wall extending to the neck and was full of mucinous material
- Gall bladder and liver submitted to AVDL

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Histological Findings

Liver:
- Mild biliary hyperplasia and lymphangectasia with mild diffuse hydropic vacuolar change and scattered lipogranulomas

Gall Bladder:
- Submucosa expanded by an infiltrative neoplasm
- Sweeping dense interlacing fascicles of mildly pleomorphic spindle cells
- Cells have abundant cytoplasm, elongated nuclei, granular/vesicular chromatin, few mitoses (3/10HPF)
- Center full of abundant mucous
- Neoplasm extended to neck of gall bladder

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Routine Histology
Routine Histology
Immunohistochemistry

Pancytokeratin

Vimentin

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Immunohistochemistry

Smooth Muscle Actin

Desmin

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Proliferation Stains

AgNOR = 1.52

Ki-67 = 7

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Diagnosis

- Gallbladder Leiomyosarcoma
- Never reported in veterinary medicine
- One report of gall bladder sarcoma in a dog in 1976
- Hepatic leiomyosarcomas rare
- Surprisingly minimal hepatic changes in this case without cholestasis
- Gallbladder leiomyomas uncommon but reported, usually incidental findings
Gallbladder sarcomas “exceedingly rare” in human medicine
- Only 40 documented cases reported
- Gallbladder leiomyosarcomas: 7 cases

Bacterial culture was negative

Four months later dog is clinically fine with ALP 1893 (RI 23-212) and ALT 110 (RI 10-110)
References


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