

PATIENT

Henry Savran

PRESENTING CLINICAL SIGNS

6133 Henry Savran Canine American Bulldog Mix Male 11.7 80.8 lb Medication Strength Dosing Instructions Last given Rejensa Joint Supplement Hepaticlear Pro Chew Cytopoint GenOne Spray Procedure: Abdominal Ultrasound Current Problem List: Markedly elevated liver values. DDX: Hepatopathy, Endocrinopathy, Neoplasia, Other Hx of chronic pruritus Cutaneous hemangiosarcoma Chronic recurrent pyoderma Possible primary keratinization disorder vs autoimmune disease Presenting Complaint: Patient presented 12/2/21 for pre-anesthetic labwork in preparation for skin biopsy and excision of multiple, known cutaneous hemangiosarcomas. Markedly elevated liver values found on labwork. Procedure post-poned to investigate the elevations. Started on Hepaticlear Pro liver antioxidant supplements. Pertinent Diagnostic Results: Senior Basic ALT 527 AST 119 ALP 2198 GGT 38 T4 0.8(N) CBC - unremarkable / WNL

SPECIES

Canine

BREED

American Bulldog

SEX

Male

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

AGE

11.7 Years

The urinary bladder is moderately distended with anechoic urine. The Bladder wall, trigone, ureteral papillae and visible urethra (to a depth of 2cm) appear normal with no evidence of wall thickening, mucosal irregularities, masses or cystic calculi.

WEIGHT

80.8 Pounds

The prostate is normal in size (1.0 cm) and shape for this neutered male dog. The parenchyma is homogenous and the external margins are smooth. The prostatic urethra appears normal with no evidence of irregularity, invasion, mass effect or calculi.

INTERPRETED BY

Kathleen Sennello DVM,
MS, Diplomate ACVIM
(Small Animal Internal
Medicine)

The left kidney has a normal shape and size (6.5 cm). Overall echogenicity is normal with adequate corticomedullary distinction and a typical 1:3 cortex:medulla ratio. There is no evidence of perinephric inflammation or effusion. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

IMAGING PERFORMED BY

Loetitia Saint-Jacques, RVT

The right kidney has a normal shape and size (7.83 cm). Overall echogenicity is normal with adequate corticomedullary distinction and a typical 1:3 cortex:medulla ratio. There is no evidence of perinephric inflammation or effusion. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

Adrenal Glands

HOSPITAL NAME

Truckee Meadows VH

The left adrenal gland is normal in size measuring 0.85 cm at the caudal pole. It is observed in its normal position cranial to the left renal artery. It is normal in appearance (uniformly hypoechoic) and shape with no evidence of a mass effect.

REFERRING VET

Dr. Rachel Kuester

The right adrenal gland is normal in size measuring 0.67 cm at the caudal pole. It is observed in its normal position between the cranial aspect of the right kidney and the caudal vena cava. It is normal in appearance (uniformly hypoechoic) and shape with no evidence of a mass effect.

Spleen

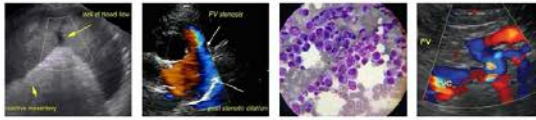
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The spleen is large in size. The spleen echotexture is heterogenous and mottled. The blood flow through the hilus and splenic parenchyma appears normal. Towards the head of the spleen, there is a mixed echogenic, hyperechoic mass effect measuring 2.6 cm in diameter. Adjacent to this first mass is a second, hypoechoic, solid mass measuring 3.71 cm x 4.8 cm. Both of these masses disrupt the splenic capsule.

DATE

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PATIENT

Henry Savran **Liver**

SPECIES

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BREED

American Bulldog

SEX

Male

AGE

11.7 Years

WEIGHT

80.8 Pounds

The liver is subjectively normal in size, and echogenicity with smooth peripheral margins. The parenchyma is heterogenous in echotexture with subtle, indistinct focal mottling. The visible portions of the vasculature and biliary tract appear normal. There are numerous small mass effects/large nodules within the hepatic parenchyma. A hyperechoic nodule just adjacent to the gallbladder measures 4.47 cm x 4.66 cm. Two additional slightly hyperechoic mass effects are visualized at 2.76 cm x 3.02 cm and 2.45 cm.

The gallbladder lumen is moderately distended. The wall of the gall bladder is not thickened and has a smooth mucosal surface. Luminal contents are primarily anechoic. The cystic and common bile ducts are normal/not visible.

Gastrointestinal

The stomach contains minimal luminal contents. It measures at a normal thickness of <0.7cm with some variability due to the presence of rugal folds. The distinction of the gastric wall layers is adequate and there is no impression of reduced peristaltic activity. No masses or focal lesions were observed.

The visualized areas of duodenum, jejunum and ileum have a relatively uniform diameter with minimal fluid distension. Wall thickness is normal. Bowel loops follow a curvilinear path with distinct wall layering maintaining the typical 1:3 muscularis:mucosa layer ratio. The duodenum measured as normal (between 0.3-0.5cm in wall thickness) and the jejunum measured as normal (between 0.2-0.47cm.) Visualized peristalsis appears appropriate. There were no focal lesions consistent with obstruction or a mass effect observed.

The ileocecal junction was visualized and exhibited normal intact wall layering and is subjectively of normal thickness. Sections of colon are visualized with formed fecal material and gas shadowing distally. There is no observed focal or generalized colon wall thickening or loss of layering.

Pancreas

The pancreas is normal and isoechoic to surrounding mesentery. There is no evidence of nodules or cystic lesions. There is no evidence of regional mesenteric inflammation or fluid.

Free Abdomen

Evaluation of the peritoneal cavity did not reveal any evidence of effusion, or subjective lymphadenomegaly. The Medial iliac nodes appear normal and there was no evidence of a caudal aortic thrombus at the bifurcation. The omentum is of normal uniform echogenicity.

Other

A brief view of the heart was submitted. No significant pericardial effusion was seen.

ULTRASONOGRAPHIC FINDINGS

- Mottled spleen with hypo- and hyperechoic mass effects – Several focal mixed echogenic and hypoechoic mass effects are present within the splenic parenchyma. These masses distort the splenic capsule. Differentials include benign lesions (lymphoid hyperplasia, hemangioma, etc.) or neoplasia (hemangiosarcoma, lymphoma etc.). The appearance in this circumstance favors a neoplastic lesion.

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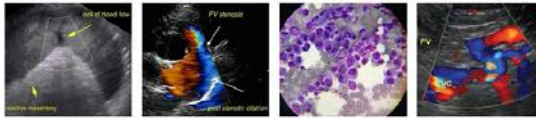
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- Multiple hepatic masses/nodules – These nodules could be benign or neoplastic. Appearance favors a possible metastatic neoplasia.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

There are significant masses/large nodules visualized within the spleen and liver. There is concern these could represent metastatic nodules derived from the cutaneous hemangiosarcoma described in the history. Consider a fine needle aspirate of the spleen or liver lesions to try to obtain more information. Recommend 3-view chest radiographs to look for evidence of metastasis.

BREED

American Bulldog

Cutaneous hemangiosarcoma has a relatively good prognosis with most issues pertaining to local recurrence, but deep subcutaneous hemangiosarcoma can have a relatively high metastatic rate. If this is cutaneous, then consider that these lesions could be some other benign or malignant lesion. If the lesions involve the subcutaneous tissues and are relatively large, I would be more concerned that these represent metastasis. Recommend consultation with a veterinary oncologist if cytology from aspirates is diagnostic.

SEX

Male

AGE

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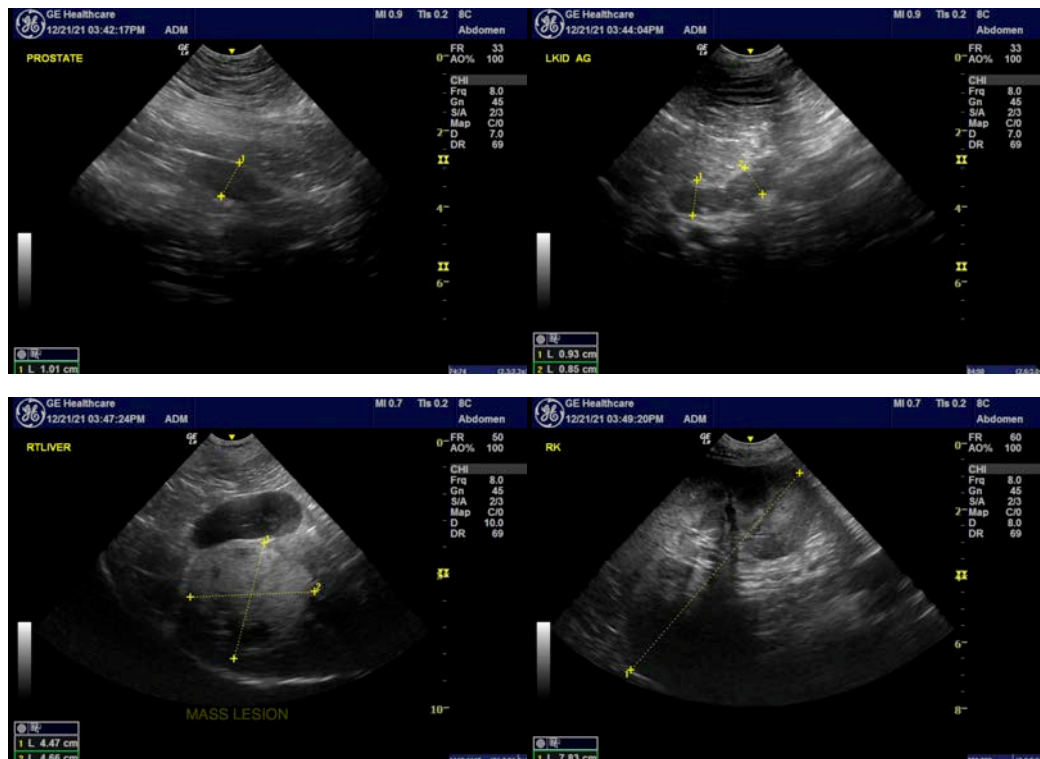
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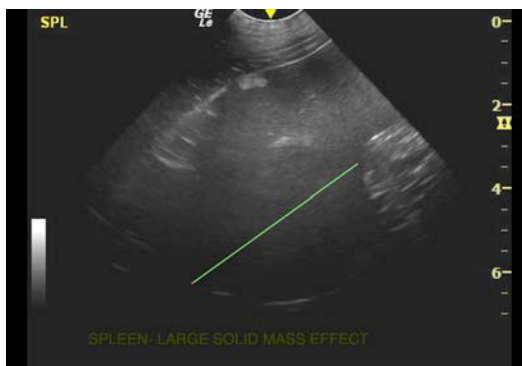
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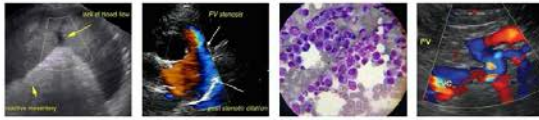
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

SPECIES

Canine

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance please contact me.

BREED

American Bulldog

Kathleen Sennello DVM,MS, Diplomate ACVIM (Small animal Internal Medicine)

kathleen.sennello@sonopath.com

SEX

Male

AGE

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