



PATIENT

Casey Theile

PRESENTING CLINICAL SIGNS

SPECIES

checking Pancreas and Liver, alk phos is 990. On urosodiol and denamarin-

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED

Urinary System

Golden Lab

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.

SEX

Spayed Female

The left kidney has a normal shape and size (6.87 cm). Overall echogenicity is slightly hyperechoic with poor 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.

AGE

11 Years

The right kidney has a normal shape and size (6.5 cm). Overall echogenicity is slightly hyperechoic with poor 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.

WEIGHT

Golden Lab

Adrenal Glands

The left adrenal gland is normal in size measuring 0.73 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.

INTERPRETED BY

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

The right adrenal gland is normal in size measuring 0.62 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.

IMAGING BY

Loetitia Saint-Jacques,
LVT

Spleen

The spleen is subjectively normal in size. The spleen echotexture is heterogenous and mottled, the splenic capsule is smooth with no irregularities. The blood flow through the hilus and splenic parenchyma appears normal. There are at least three hypoechoic nodules visualized within the splenic parenchyma. One of these nodules measures 0.65 cm x 0.95 cm. A nodule in the head of the spleen measures 1.01 cm x 0.68 cm, and a smaller lesion measures at 0.38 cm in diameter. None of these lesions distort the splenic capsule.

HOSPITAL NAME

North Hills VC

Liver

The liver is large in size and slightly irregular in shape. 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 ill-defined, small hypoechoic nodules visualized throughout the parenchyma, varying in size from approximately 0.25-0.70 cm. One such focal lesion measures 0.66 cm x 0.96 cm, and another measures 0.95 cm.

REFERRING VET

Dr. David Bagget

The gall bladder lumen is moderately distended. The wall of the gall bladder is not thickened and has a smooth mucosal surface. There is a moderate amount of non-organized echogenic debris. The cystic and common bile ducts are normal/not visible.

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PATIENT

Casey Theile

Gastrointestinal

The stomach contains minimal luminal contents. It measures at a normal thickness of 0.44 cm 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.

SPECIES

Canine

BREED

Golden Lab

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. Duodenum wall measured 0.50 cm. Jejunum wall measured 0.37 cm. Visualized peristalsis appears appropriate. There were no focal lesions consistent with obstruction or a mass effect observed.

SEX

Spayed Female

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.

AGE

11 Years

Pancreas

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

WEIGHT

Golden Lab

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.

INTERPRETED BY

Kathleen Sennello DVM,
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Medicine)

ULTRASONOGRAPHIC FINDINGS

- Mottled spleen with three hypoechoic nodules - The diffuse splenic changes are non-specific and could be consistent with lymphoid hyperplasia, extramedullary hematopoiesis, infiltrative neoplasia, inflammation, other. Cytology or histopathology would be necessary to get a definitive diagnosis.
- Prominent, mottled pancreas - The pancreatic changes are most consistent with mild pancreatitis or a recent episode of pancreatic inflammation.
- Heterogeneous liver with ill-defined, hypoechoic nodules - The diffuse hepatic changes are non-specific and could be consistent with vacuolar hepatopathy, nodular hyperplasia, inflammatory/immune-mediated disease, fibrosis, extramedullary hematopoiesis, toxic hepatopathy (e.g., copper), infiltrative neoplasia (less likely) or other hepatopathy.
- Decreased corticomedullary distinction in both kidneys - The bilateral renal findings are consistent with age-related change.

IMAGING BY

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS



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PATIENT

Casey Theile

SPECIES

Canine

BREED

Golden Lab

SEX

Spayed Female

AGE

11 Years

WEIGHT

Golden Lab

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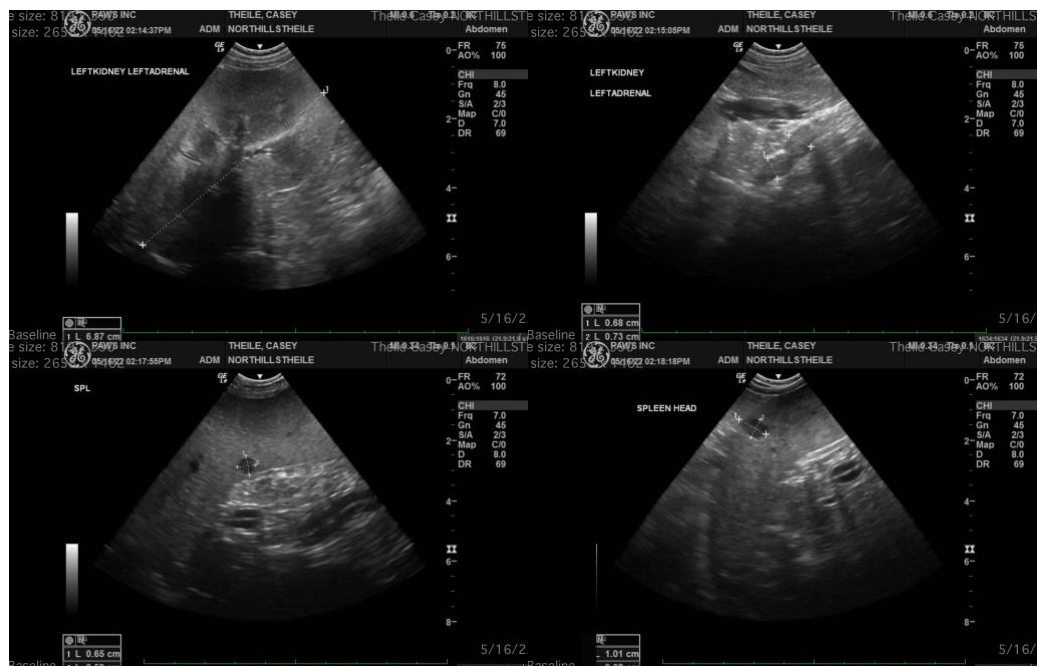
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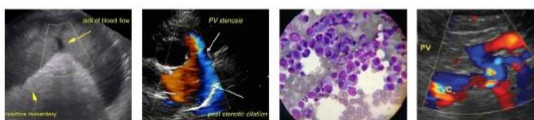
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The liver is large and heterogeneous with ill-defined, hypoechoic nodules. The appearance of these nodules trends towards a more benign process, but an underlying neoplastic process cannot be excluded as a possibility. Additionally, the spleen is mottled and has some small hypoechoic nodules as well. These do not deform the splenic capsule. A fine needle aspirate is recommended. No significant gallbladder changes are observed.

- Consider pre- and post-prandial bile acids to evaluate liver function.
- Consider a fine needle aspirate of the liver and spleen (nodule if possible) to further evaluate the changes observed on today's scan.
- If signs of Cushing's are present, you could consider adrenal function testing (no significant adrenal enlargement is noted).
- Recommend 3-view thoracic radiographs to rule out any evidence of concurrent intrathoracic disease.

If liver function is normal, and cytology is unrewarding, then consider continued monitoring with ultrasound and bloodwork. If liver enzymes continue to rise, then I would consider a biopsy of the liver. If cytology is concerning on the splenic aspirates, or these lesions are changing significantly, I would recommend a splenectomy.





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Golden Lab

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Spayed Female

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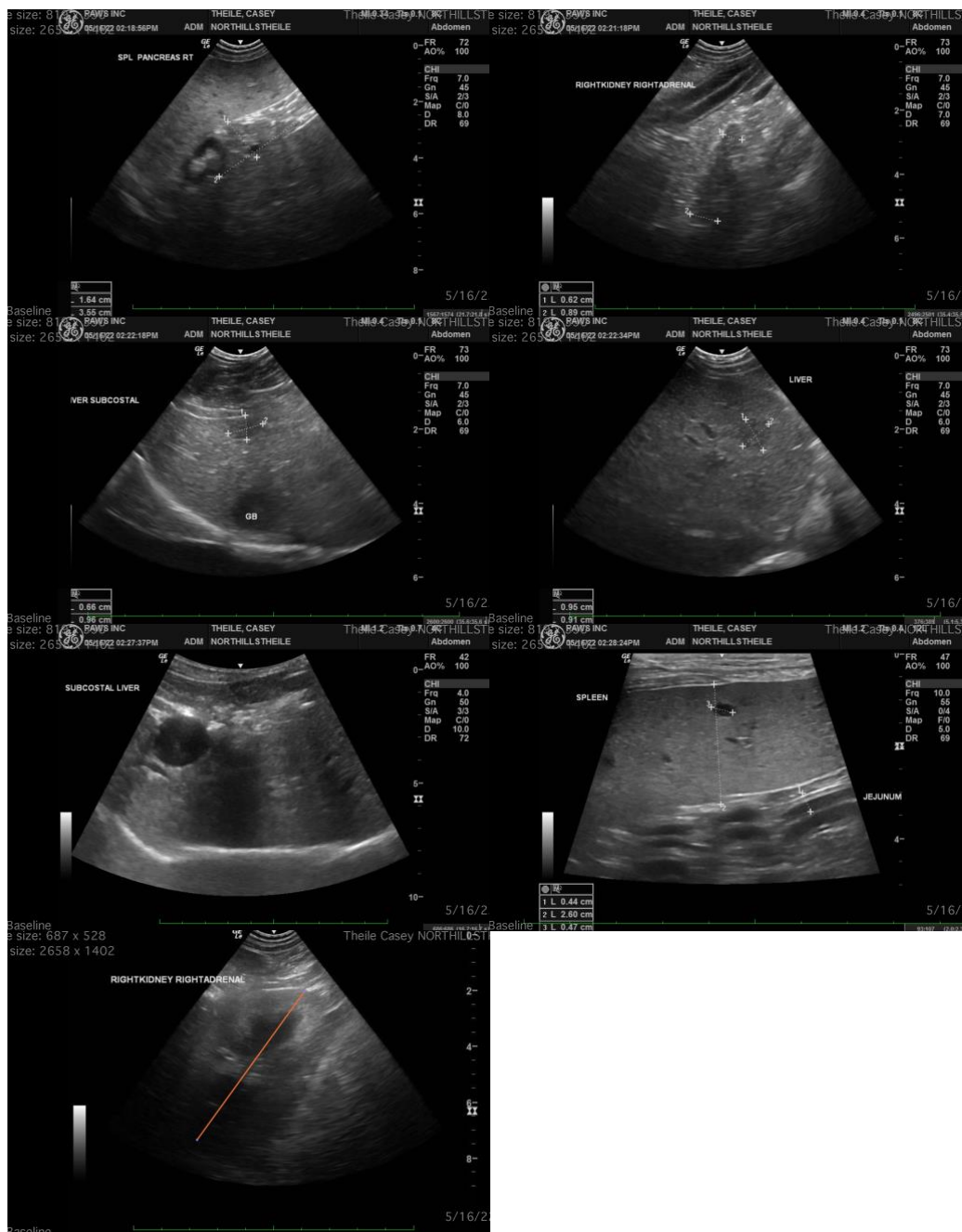
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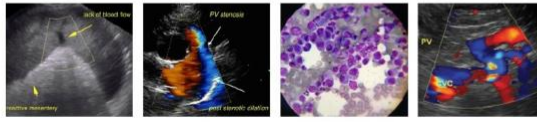
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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

Golden Lab

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SEX

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