



PATIENT PRESENTING CLINICAL SIGNS

Mia Ahlstrom
Elevated liver enzymes-Has used Denamarin in the past but not improvement in liver values.
Abnormal PE/Chem/CBC/UA Results: ALT 556 from 442 in Nov 2022. ALKPPOS 454 from 197 in November 2020- Fecal and HW test NEG.

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED

Urinary System

Maltese

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 (3.22 cm) with a small cortical cyst at 0.33 cm. Overall echogenicity is normal with mildly reduced corticomedullary distinction and a typical 1:3 cortex:medulla ratio. There is no evidence of focal perinephric inflammation or effusion. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

AGE

13 Years

The right kidney has a normal shape and size (3.19 cm). Overall echogenicity is normal with mildly reduced corticomedullary distinction and a typical 1:3 cortex:medulla ratio. There is no evidence of focal perinephric inflammation or effusion. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

WEIGHT

5.8 Pounds

INTERPRETED BY

Adrenal Glands

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

The left adrenal gland is normal in size measuring 0.43 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.

IMAGING PERFORMED BY

The right adrenal gland is normal in size measuring 0.49 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.

Loetitia Saint-Jacques,
LVT

Spleen

HOSPITAL NAME

The spleen is subjectively normal in size, echotexture is homogenous, and the splenic capsule is smooth with no irregularities. The blood flow through the hilus and splenic parenchyma appears normal. No focal parenchymal abnormalities are visualized.

Peavine Animal
Hospital

Liver

REFERRING VET

Dr. David Baggett

The liver is large and irregular. The parenchyma is heterogenous in echotexture with subtle, indistinct focal mottling. The visible portions of the vasculature and biliary tract appear normal. The parenchyma of the liver is diffusely nodular with too numerous to count hypoechoic nodules varying in size from 0.5-2.5 cm. Two large nodules/masses visualized measure 2.3 cm and 2.1 cm in diameter.

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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.

DATE

1/24/23



PATIENT *Gastrointestinal*

Mia Ahlstrom 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.

SPECIES

Canine The visualized areas of duodenum, jejunum and ileum have a uniform diameter with minimal fluid distension. Wall thickness is normal to slightly increased. Bowel loops follow a typical curvilinear path with distinct wall layering, but some areas display a prominent muscularis layer which does not display the typical 1:3 muscularis:mucosa layer ratio. Jejunum wall measures 0.28 cm. Duodenum wall measures 0.36 cm with mild mucosal speckling. Visualized peristalsis appears appropriate. There were no focal lesions consistent with obstruction or a mass effect observed.

BREED

Maltese

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

13 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

5.8 Pounds

Free Abdomen

There is a small amount of free abdominal fluid. No lymphadenopathy. The omentum is generally of normal echogenicity.

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(Small Animal Internal
Medicine)

Other

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

IMAGING PERFORMED BY

Loetitia Saint-Jacques,
LVT

PRIMARY FINDINGS

- Prominent, mottled pancreas – The pancreatic changes are most consistent with age-related parenchymal remodeling, potentially secondary to a prior inflammatory episode, early fibrosis or chronic pancreatitis.
- Large, irregular, heterogeneous liver with diffuse 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. The nodules observed trend toward a more benign process but underlying neoplasia cannot be ruled out.
- Mild gallbladder debris – The significance of the aggregated gallbladder debris is unclear. This could represent an early mucocele, cholestasis, or may be secondary to fasting but seems unlikely to be causing a current issue. Recommend continued monitoring.
- Prominent small intestine with mild mucosal speckling – Bright mucosal speckling has been postulated to represent dilated lacteals or focal accumulations of mucus, cellular debris, etc.. in the mucosal crypts.
- Scant free abdominal fluid

HOSPITAL NAME

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Hospital

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PATIENT SECONDARY FINDINGS

Mia Ahlstrom

- Mildly reduced corticomedullary distinction in both kidneys with a left-sided cortical cyst – The bilateral renal findings are consistent with age-related change.

SPECIES

Canine

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Maltese

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Spayed Female

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WEIGHT

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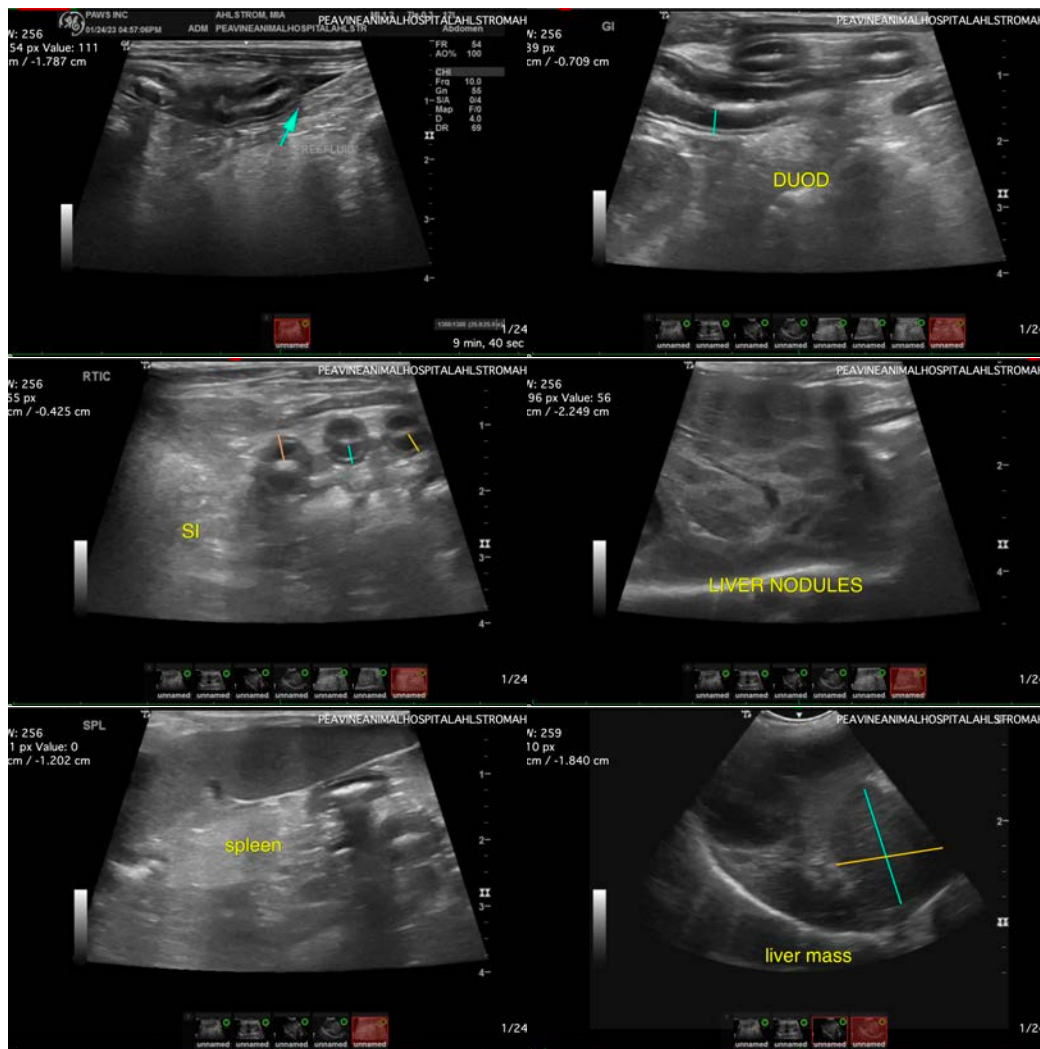
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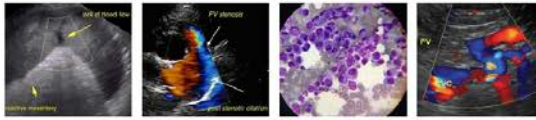
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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The liver is irregular and diffusely nodular. While often these types of nodules can be benign, some of these nodules do deform the hepatic margins somewhat. Recommend a fine needle aspirate for further evaluation.

There is mild subjective small intestinal thickening and prominent mucosal speckling noted. This can be an indicator of underlying gastrointestinal disease. If there are no significant symptoms associated with gastrointestinal disease, the significance of this is uncertain. If there is a history of chronic gastrointestinal disease, consider further evaluation.





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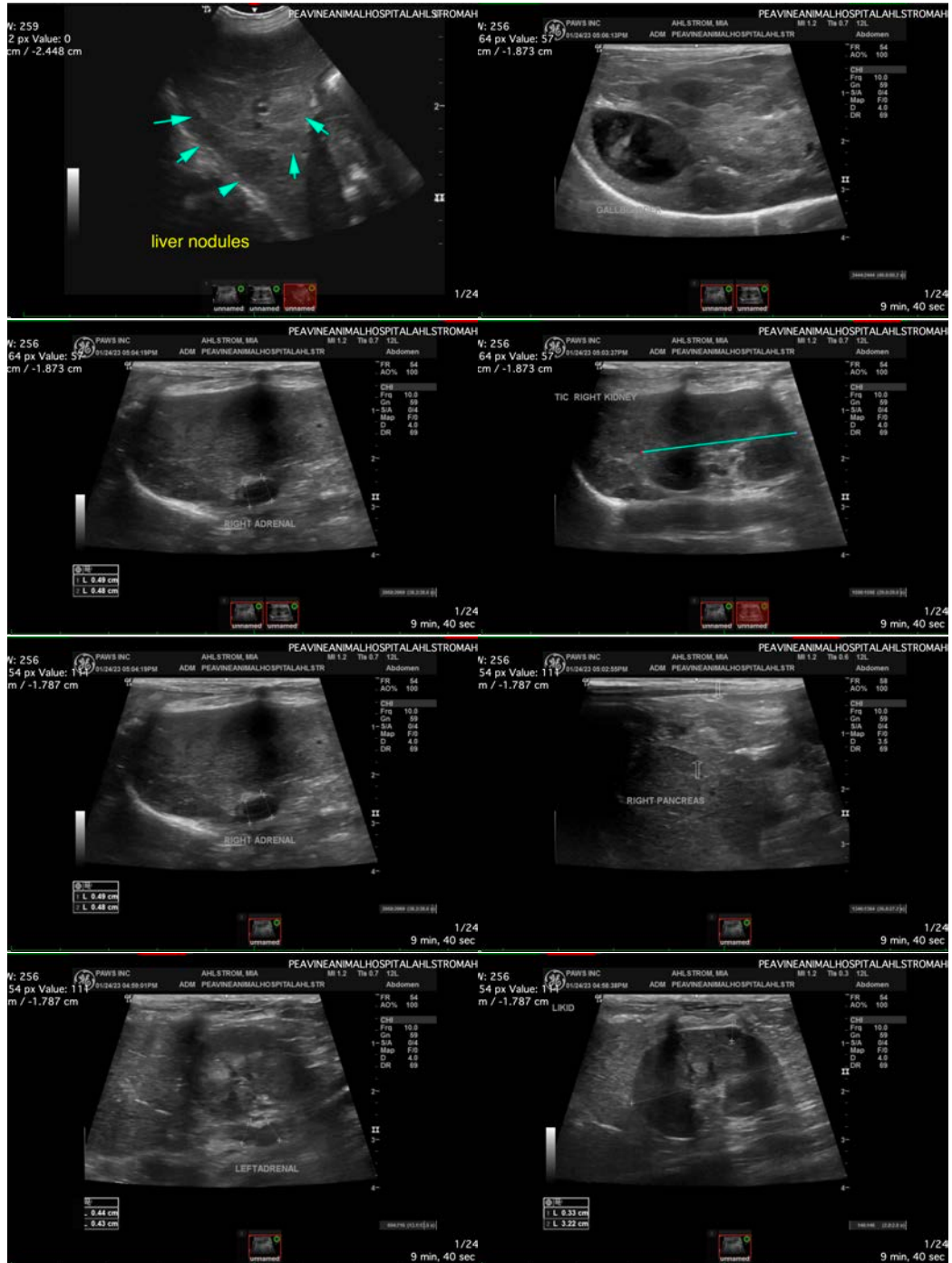
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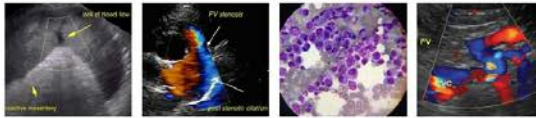
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PATIENT

Mia Ahlstrom

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.

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

BREED

Maltese

kathleen.sennello@sonopath.com

SEX

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