



**PATIENT PRESENTING CLINICAL SIGNS**

Amethyst Linnell Has become listless in past few months. Restless, panting, not playing. All labs WNL. New Grade III/VI left sided heart murmur. Rads: Redundant tracheal membrane. \* Grain-free diet\*

**SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

Canine **Urinary System**

**BREED** Affenpinscher  
 The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra exhibited normal thickness and tone. Anechoic urine was present in the lumen with no uroliths or sediment. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes were noted.

**SEX** FS  
 Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio and normal corticomedullary definition were maintained. The echogenicity of the cortex was similar to or slightly less than normal liver parenchyma while the medulla echogenicity was hypoechoic to the cortex with no evidence of pelvic dilation. The left kidney measured 4.2 cm in length. The right kidney measured 4.8 cm in length.

**AGE** 7yr  
 The area of the aortic trifurcation was free of pathology.

The area of the iliac trifurcation was free of pathology including no evidence of medial, iliac or sublumbar lymphadenopathy. An example of a medial iliac lymph node measured 1.7 cm x 0.35 cm.

**WEIGHT Adrenal Glands**

16lb  
 The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.46 cm width at the caudal pole and 0.34 cm width at the cranial pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.43 cm width at the caudal pole and 0.32 cm width at the cranial pole.

**INTERPRETED BY**  
 R. McKenzie Daniel, DVM,  
 DABVP (Canine and Feline)

**Spleen**

**IMAGING PERFORMED BY**  
 Pamela Harrigan, RDCS  
 The spleen exhibited a finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. The capsule was smooth and regular without apparent expansion. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis. Acute to chronic inflammatory, neoplastic, or benign parenchyma changes were not noted.

**HOSPITAL NAME Liver**

Falmouth Animal Hospital  
 The liver was subjectively normal in size, structure, and contour. The liver parenchyma was uniform and hypoechoic to the spleen with a mild coarse echotexture. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content with mild non-dependent nonorganized echogenic debris. No evidence of gallbladder or peripheral gallbladder inflammation was present. The cystic and common bile ducts were normal.

**REFERRING VET**  
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**Gastrointestinal**

12199ag  
 The stomach presented intact wall layering with a normal wall layer ratio. The stomach was mild to moderately distended with retained echogenic fluid and chyme with no signs of ileus, obstruction or foreign material. The pylorus wall measured 0.44 cm in width.

**DATE**  
 11/21/2022



**PATIENT**

Amethyst Linnell

The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. The lumen of the small intestine was empty with no signs of ileus, obstruction or foreign material. The duodenum wall measured 0.40 cm in width. The jejunum wall measured 0.30 cm in width.

**SPECIES**

Canine

Normal visible colon wall layers were present with apparent formed feces in lumen.

**Pancreas**

The parenchyma of the left limb, body and right limb of the pancreas presented isoechoic to the adjacent omental fat. A normal curvilinear capsule contour of the pancreas was present. The visible pancreatic duct was normal. No signs of active inflammation or neoplastic disease was evident.

**BREED**

Affenpinscher

**Free Abdomen**

No omental masses, overt lymphadenopathy or peritoneal effusion was present.

**SEX**

FS

**ULTRASONOGRAPHIC FINDINGS**

- Mild gallbladder debris-considered incidental given lack of cholestasis
- Sonographically unremarkable GI tract with mild to moderate gastric echogenic fluid/chyme

**AGE**

7yr

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Overall, no overt evidence of significant abdominal visceral pathology as a definitive cause of the patient's clinical signs. The gastric fluid if documented NPO may suggest some degree of metabolic gastric hypomotility or stasis. No evidence of GI obstructive pattern was noted.

**WEIGHT**

16lb

A resting cortisol level to rule out occult Addison's disease could be considered even though the bilateral adrenal glands are sonographically normal. Correlation with three view chest radiographs and ideally full echocardiographic work up given patient history and heart murmur is recommended.

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Pamela Harrigan, RDCS

**HOSPITAL NAME**

Falmouth Animal Hospital

**REFERRING VET**

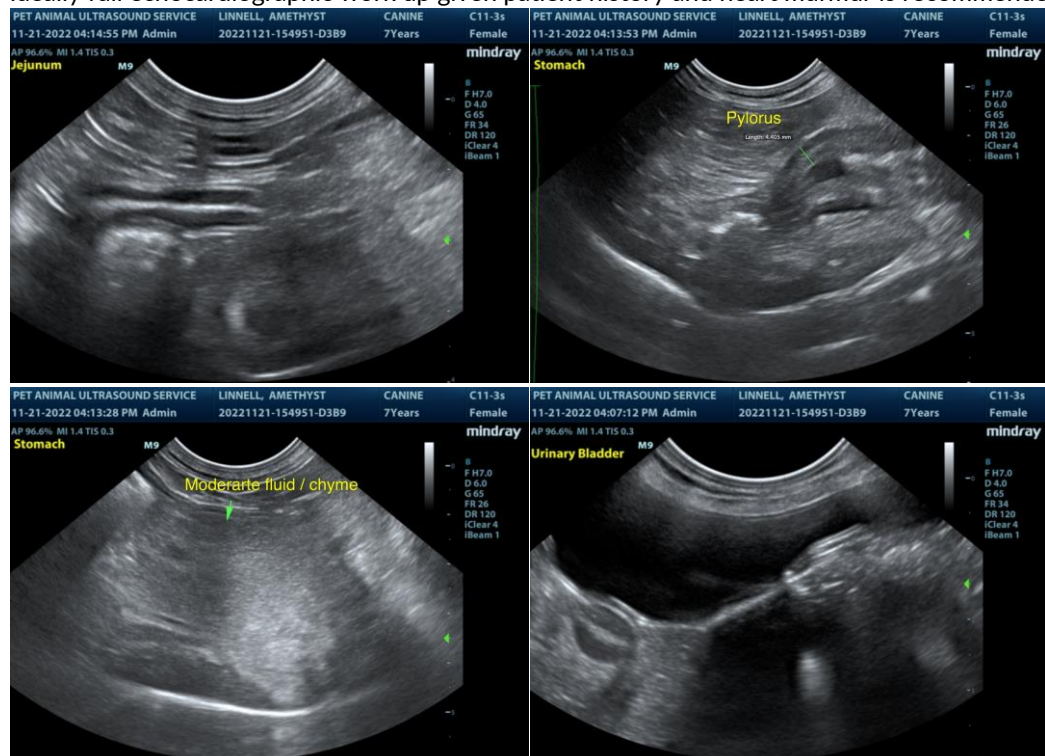
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**SPECIES**  
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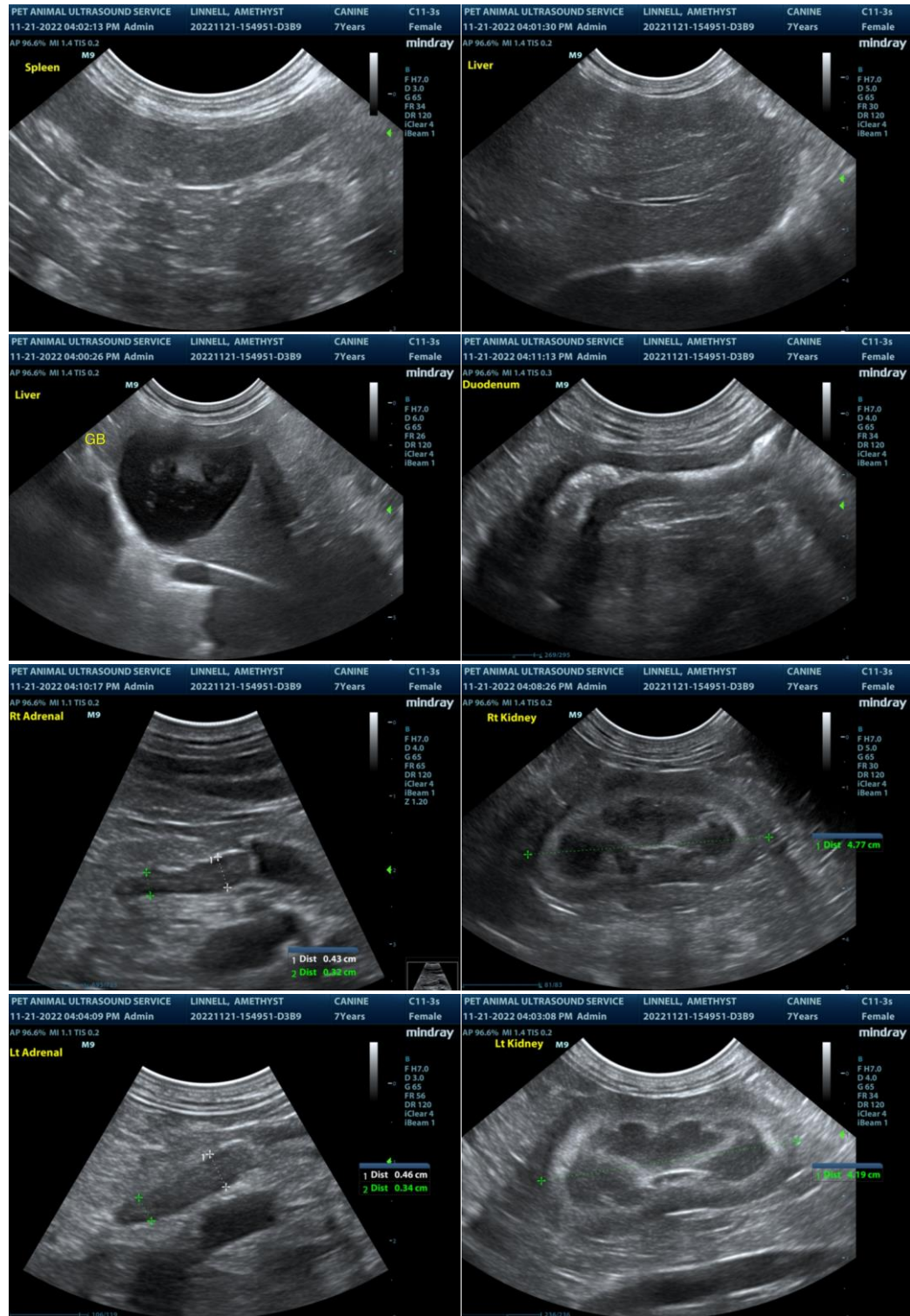
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I



**PATIENT**

Amethyst Linnell

can be of any further assistance please contact me.

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**BREED**

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