



**PATIENT PRESENTING CLINICAL SIGNS**

Chance Findlay History: Elevated Alk Phos since November 2021. Current meds: Denamarin

Abnormal PE/Chem/CBC/UA Results: Alk Phos 629-750 over past few months

**SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

Canine

**Urinary System**

**BREED**

Labradoodle Mix

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3 cm 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 was present in the kidneys. A normal 1:3 cortex / medulla ratio was maintained. The medulla and cortices were uniform in texture with some increased echogenicity and minor loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 7.0 cm in length. The right kidney measured 6.8 cm in length.

**AGE**

8 years

The area of the aortic trifurcation was free of pathology.

**Adrenal Glands**

**WEIGHT**

76.4 pounds

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.67 cm width at the caudal pole and 0.63 cm width at the cranial pole. The right adrenal gland exhibited minor asymmetrical contour and subtle heterogeneous parenchyma including a subtle isoechoic cranial nodule measuring 1.4 cm x 0.98 cm. No evidence of right adrenal mineralization or vascular invasion. The right adrenal gland measured 0.72 cm width at the caudal pole and 1.49 cm width at the cranial pole.

**INTERPRETED BY**

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

**Spleen**

**IMAGING PERFORMED BY**  
Jessica Miller

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**

American Animal  
Hospital

**Liver**

The liver was mildly enlarged in size with normal structure and contour. The liver parenchyma exhibited mild generalized parenchymal remodeling with normal overall parenchymal echogenicity. The hepatic and portal vasculature were normal in appearance without signs of congestion.

**REFERRING VET**

Dr. Arculli

The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content with minor nonmineralized debris. The cystic and common bile ducts were normal.

**Gastrointestinal**

**INVOICE**

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The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach was empty with no signs of ileus, obstruction or foreign material.

**DATE**

05/02/2022

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.



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

Chance Findlay **Pancreas**

**SPECIES** 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.

Canine

**Free Abdomen**

**BREED** No overt lymphadenopathy or peritoneal effusion was present.

Labradoodle Mix

**ULTRASONOGRAPHIC FINDINGS**

**SEX**

- Vacuolar hepatopathy pattern with mild parenchymal remodeling-subjectively benign
- Minor gallbladder debris
- Subtle nonhomogeneous cranial right adrenal nodule
- Early to mild age-related kidneys

FS

**AGE**

8 years

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**WEIGHT**

76.4 pounds

Although nonspecific, the subtle right adrenal nodule is not overtly consistent with neoplastic criteria with mild emerging adenomatous change suspected. A full adrenal workup including LDDST could be considered if clinical signs consistent with adrenal hyperfunction are present. Screening BP is recommended to assess for hypertension. An ultrasound guided FNA of the liver could be considered for screening cytology assuming normal clotting status however no overt evidence of hepatic neoplastic criteria was observed. Hepatosupportive medications including Denamarin and ursodiol with sonographic monitoring of the liver and subtle right adrenal nodule for evidence of progressive changes would be reasonable.

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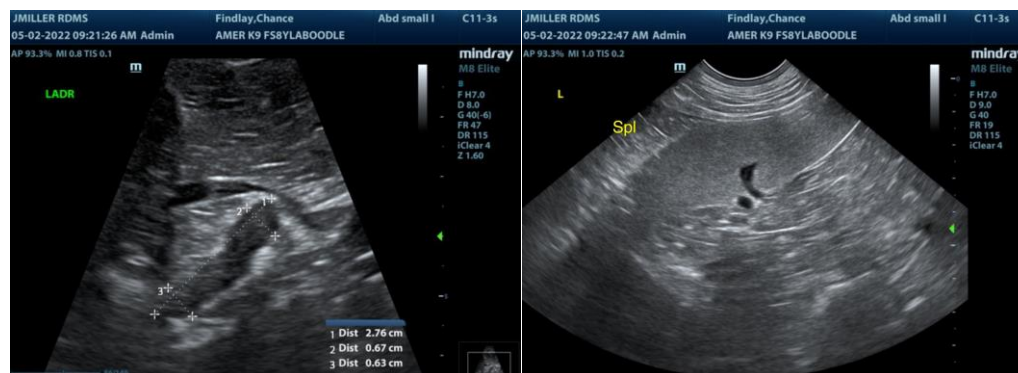
Dr. Arculli

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**PATIENT**

Chance Findlay

**SPECIES**

Canine

**BREED**

Labradoodle Mix

**SEX**

FS

**AGE**

8 years

**WEIGHT**

76.4 pounds

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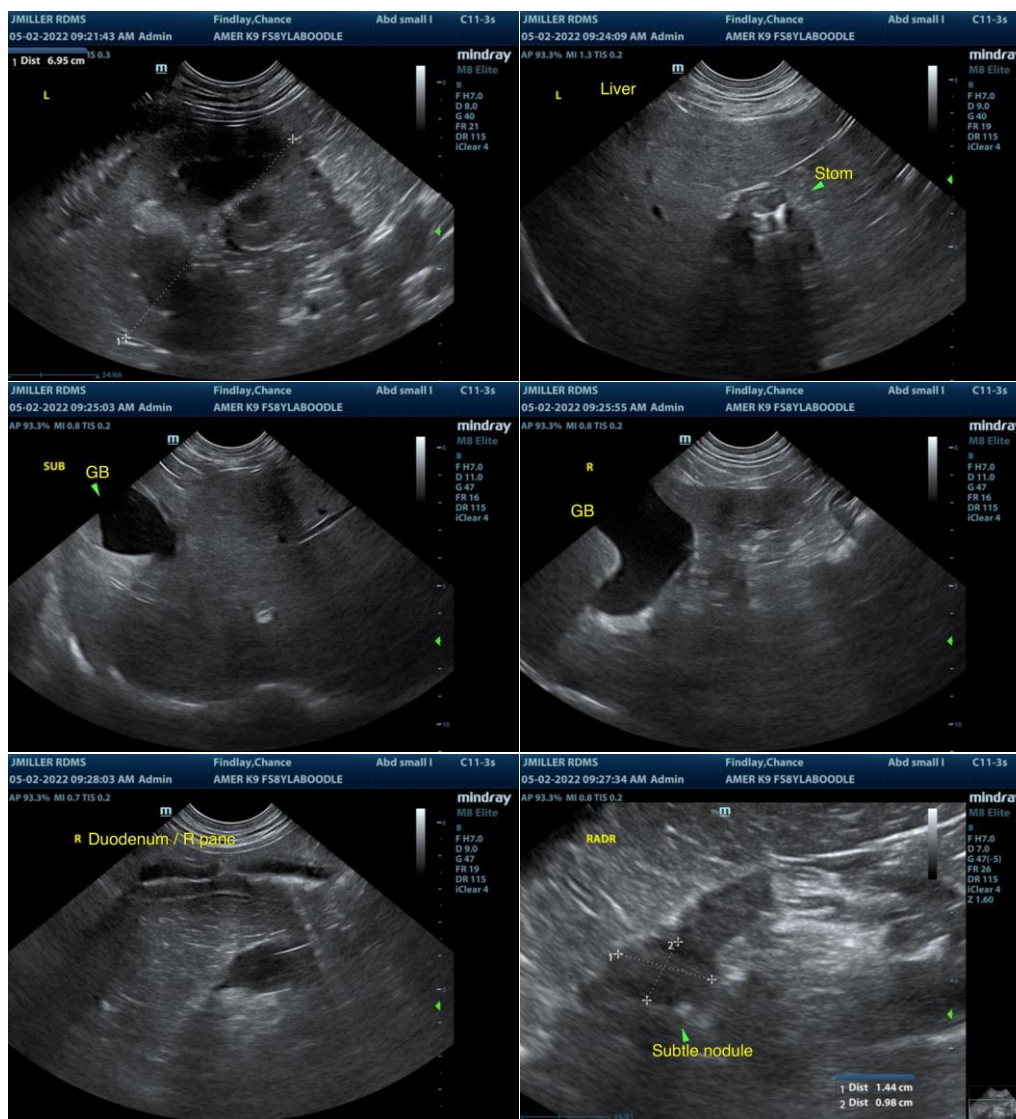
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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

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