



PATIENT	PRESENTING CLINICAL SIGNS
Koda Whirley	Elevated LE. Sedated with Butorphanol and Propofol for FNA of liver.
SPECIES	Abnormal PE/Chem/CBC/UA Results: PE: slightly thin truncal hair coat. ALP 251, ALT 467, BUN 35. CBC WNL.
Canine	ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN
BREED	Urinary System
Pomeranian Mix	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	
MN	Normal size and margination were 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 mild loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 5.8 cm in length. The right kidney measured 5.7 cm in length
AGE	
13yr	The area of the aortic trifurcation was free of pathology.
WEIGHT	The area of the residual prostate appeared normal and free of pathology.
32lb	Adrenal Glands
INTERPRETED BY	The bilateral adrenal glands were mildly prominent in size with asymmetrical contour and mild irregular to non-homogeneous non-mineralized parenchyma. The left adrenal gland measured 0.82 cm width at the caudal pole and 2.5 cm width at the cranial pole. The right adrenal gland measured 0.90 cm width at the caudal pole and 3.3 cm length.
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	Spleen
IMAGING PERFORMED BY	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.
Dr. Ebersole	Liver
HOSPITAL NAME	The liver presented moderately enlarged in size. The parenchyma of the liver exhibited mild increased echogenicity compared to the spleen and renal cortices. The liver parenchyma was uniform with a mildly coarse echotexture. The capsule of the liver was symmetrically rounded to mildly swollen in margination. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with primarily anechoic luminal content. The cystic and common bile ducts were normal.
Scanvet	Gastrointestinal
REFERRING VET	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.
Dr. Bennett	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.
INVOICE	
12327ag	
DATE	
11/29/2022	



PATIENT

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

Koda Whirley

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 omental masses, overt lymphadenopathy or peritoneal effusion was present.

Pomeranian Mix

ULTRASONOGRAPHIC FINDINGS

SEX

- Bilateral prominent to irregular adrenal glands
- Mild chronic renal changes
- Benign hepatopathy
- Sonographically normal gallbladder

MN

AGE

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

13yr

The liver was sonographically consistent with benign hepatopathy, including vacuolar hepatopathy, inflammatory/immune mediated disease, hyperplasia, hematopoiesis, mild fibrosis, lipidosis or other hepatopathy with infiltrative neoplasia considered less likely.

WEIGHT

Given the lack of reported clinical signs in this patient the bilateral prominent irregular adrenal glands are of unclear clinical significance. Potential for mild benign hyperplasia, functional vs non-functional adenomatous change possible with adrenal neoplastic criteria considered less likely. A screening BP is advised to assess for evidence of hypertension which may allude to emerging adrenal neoplastic criteria i.e. pheochromocytoma. A full adrenal workup could be considered. Correlation with pending hepatic cytology is recommended. Hepatosupportive medications such as Denamarin or Vitamin E as well as Ursodiol may prove beneficial.

32lb

INTERPRETED BY

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

IMAGING PERFORMED BY

Dr. Ebersole

HOSPITAL NAME

Scanvet

REFERRING VET

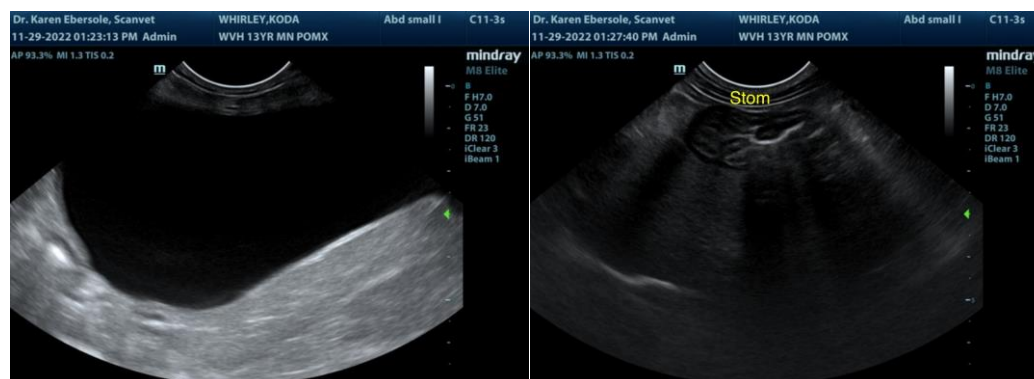
Dr. Bennett

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Canine

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Pomeranian Mix

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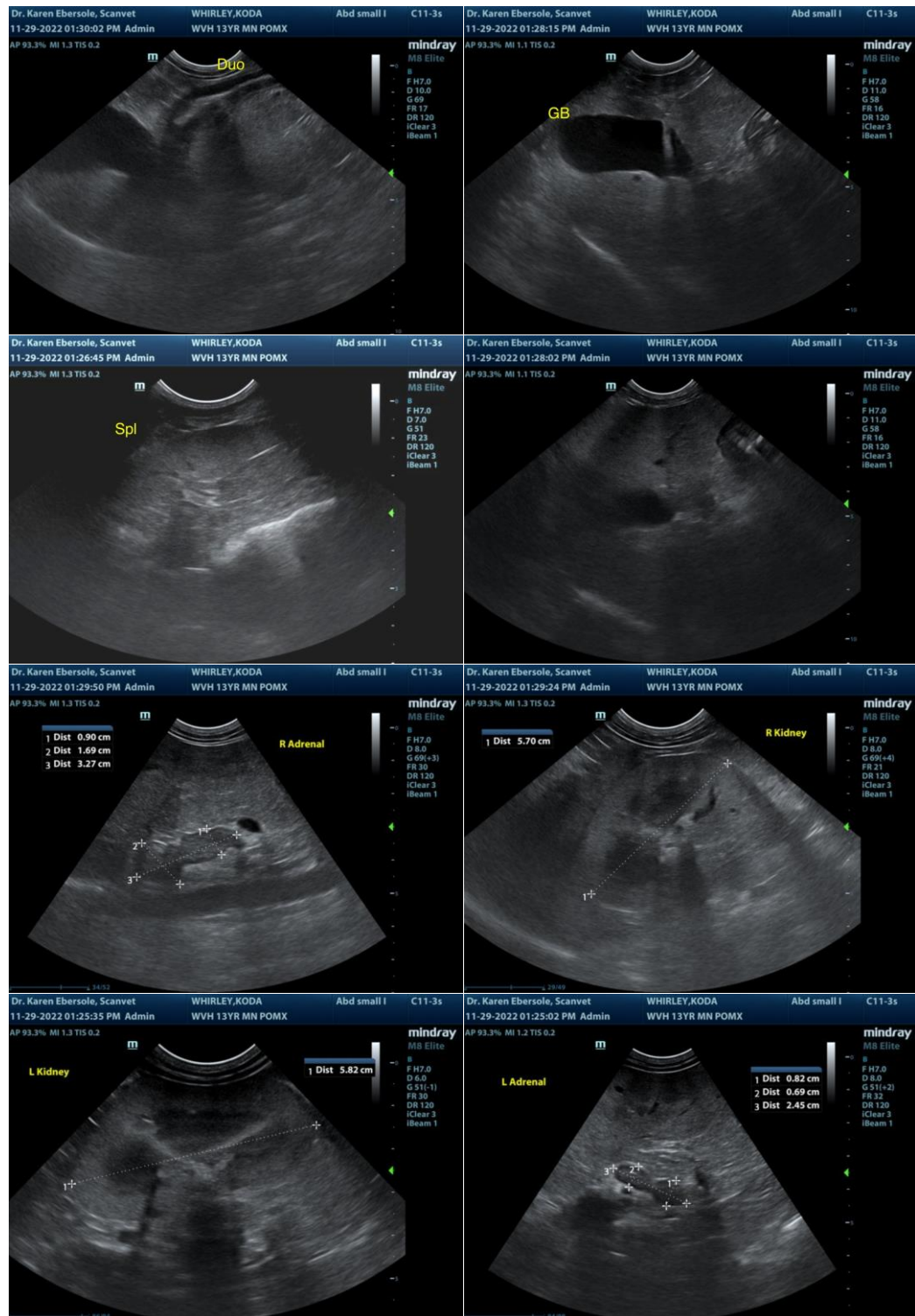
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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



PATIENT

can be of any further assistance, please contact me.

Koda Whirley

SPECIES

R. McKenzie Daniel, DVM, DABVP (Canine/Feline Practice)

mac.daniel@sonopath.com

Canine

BREED

Pomeranian Mix

SEX

MN

AGE

13yr

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