



PATIENT

Stella Linkoff

SPECIES

Canine

BREED

French Bulldog

SEX

FI

AGE

2yr

WEIGHT

10.4kg

INTERPRETED BY

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

IMAGING PERFORMED BY

Patti Mayfield DVM

HOSPITAL NAME

Tumalo Animal
Hospital

REFERRING VET

Dr. Cuthbert

INVOICE

13235ag

DATE

03/20/2023

PRESENTING CLINICAL SIGNS

3/14/2023: -- Presents for: new patient exam, patient was recently adopted from a puppy mill situation, owner has had her since Saturday. Patient has had two litters of puppies and lost her third pregnancy. -- Owner is unsure when this was or when her last heat cycle was. -- Patient is itchy and chewing at her hind end. -- Update vaccines and would like preventatives as well. -- vaccinated DAPPL LH, BV PO, RV RH -- Apoquel prescribed, Credelio and Interceptor dispensed 3/20/23; Patient is receiving AUS because of significantly elevated ALT. No known toxin exposure. Patient is not showing any unusual clinical signs. -- Butorphanol used IV to facilitate AUS

Abnormal PE/Chem/CBC/UA Results: 3/14/23: PE: - moderate tartar in caudal mouth - hairless pinnas, healing puncture on right pinna - stenotic nares -Integ -pruritus, skin is scabbed and patchy alopecia on hocks/metatarsal regions R>L Msk - muscle atrophy along epaxial muscles CBC: -- WNL CHEM: -- SDMA 15 ug/dL (0-14) -- ALT: 980 U/L (18-121) 4DX/HW: NEG x 4 Skin scrape: NEG Re-check ALT on 3/20/23: -- 500 U/L (reduced by ~ 1/2 without any medical intervention)

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2 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.

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 4.7 cm in length. The right kidney measured 4.7 cm in length.

Several mildly prominent to enlarged medial iliac lymph nodes were present. The lymph nodes were essentially isoechoic to adjacent omentum without evidence of peripheral inflammation and maintaining a normal width: length ratio (<0.5). An example of a lymph node measured 1.7 cm x 0.62 cm.

No evidence of uterine or ovarian pathology.

Adrenal Glands

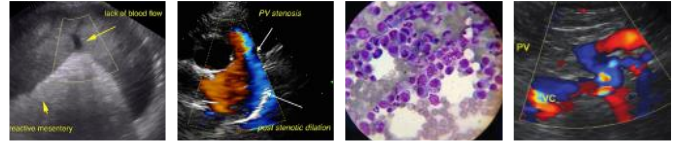
The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.73 cm width at the caudal pole and 1.8 cm length. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.56 cm width at the caudal pole and 1.8 cm length.

Spleen

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.

Liver/Gallbladder

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



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Stella Linkoff	normal in appearance without signs of congestion. Normal to adequate hepatic vascular volume. The visualized portal vein appeared to exhibit normal volume comparable to the visualized caudal vena cava. The portal vein measured ~ 0.60 cm in diameter. The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal.
SPECIES	Gastrointestinal
Canine	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.
BREED	Pancreas
French Bulldog	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.
SEX	Free Abdomen
FI	No omental masses, overt lymphadenopathy or peritoneal effusion was present.
AGE	
2yr	
WEIGHT	ULTRASONOGRAPHIC FINDINGS
10.4kg	<ul style="list-style-type: none"> Hepatopathy exhibiting normal/adequate vascular volume.
INTERPRETED BY	Secondary findings
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	<ul style="list-style-type: none"> Intermittent benign/reactive medial iliac lymphadenopathy-incidental.
IMAGING PERFORMED BY	INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS
Patti Mayfield DVM	Overall, no overt evidence of significant abdominal visceral specifically hepatic or hepatobiliary pathology. The elevated improving ALT may indicate potential for resolving inflammatory hepatopathy with microvascular dysplasia/portal vein hypoplasia considered less likely. No evidence of extrahepatic or intrahepatic shunting. Given improving ALT, continued hepatosupportive medications and monitoring of liver enzymes would be reasonable.
HOSPITAL NAME	Hepatic core surgical biopsy would be required for further clarification and may be considered if evidence of persistent or recurrent/progressive ALT elevation. Hepatic biopsy at the time of OVH assuming normal clotting status would be ideal if clinically indicated.
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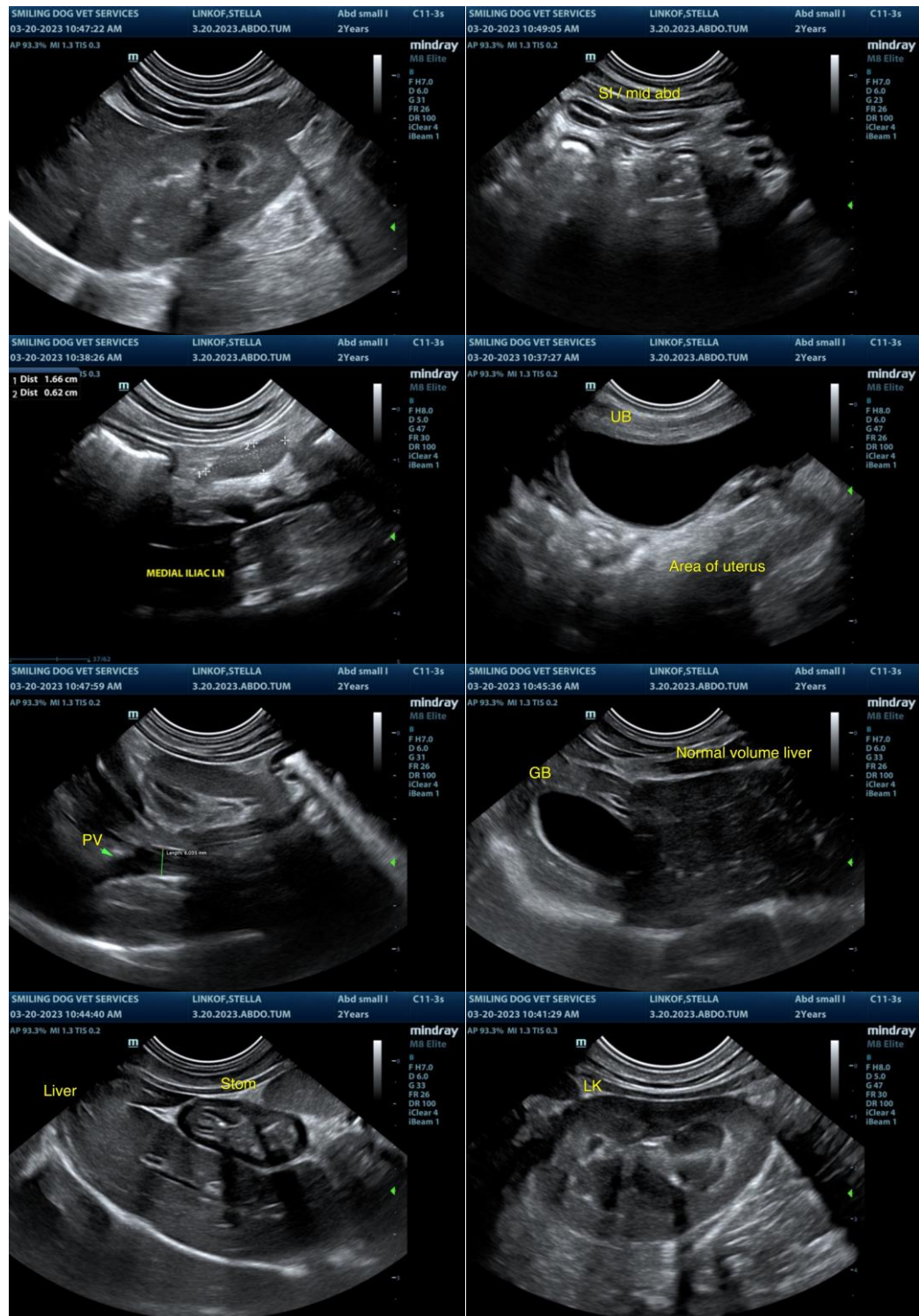
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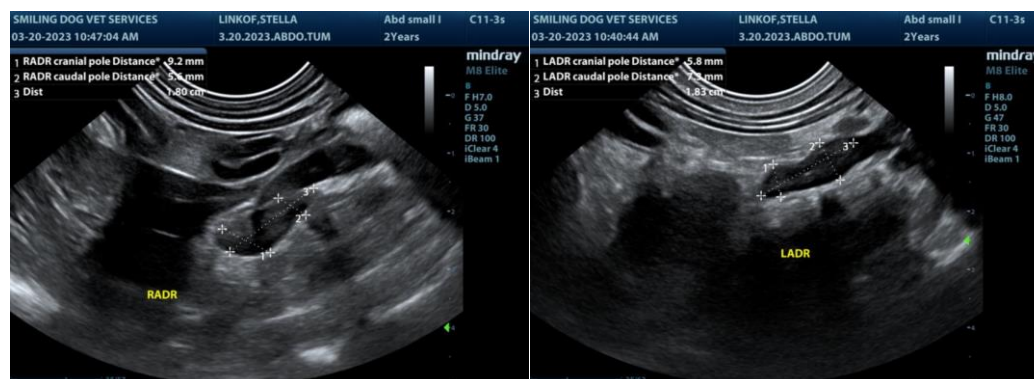
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

R. McKenzie Daniel, DVM, DABVP (Canine/Feline Practice)
mac.daniel@sonopath.com