**PATIENT**

Emma Bortolini

**SPECIES**

Canine

**BREED**

Shih Tzu

**SEX**

FS

**AGE**

10 yr

**WEIGHT**

10.7 lb

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

Rachel Runnells RVT

**HOSPITAL NAME**SVS Imaging Kansas  
City**REFERRING VET**

Dr. Oetting

**INVOICE**

10932ag

**DATE**

06/24/2022

**PRESENTING CLINICAL SIGNS**

History: Previous hx of thrombocytosis which resolved in January after a prolonged course of Enrofloxacin and Clavamox. Hx of murmur: On Lasix and Enalapril. Hx of allergic dermatitis. On Apoquel. June 15th patient was found laying limp and cyanotic. O performed CPR. Emma became stiff and convulsed for maybe 30 seconds, then recovered quickly. Went outside and ate a treat 5 min later. Has not had any repeat episodes since then. Had echo last week that found: Chronic degenerative valve disease causing mild mitral and trace tricuspid regurgitation; lack of significant left atrial enlargement.

Abnormal PE/Chem/CBC/UA Results: Other than cardiac murmur, Emma's exam is relatively WNL. BCS 6.5/9. CBC/CHEM/SDMA/T4 normal except Platelets 656 (148-484), PDW 6.6 (9.1-19.4), PCT 0.57 (0.41-0.46), CI 106 (109-122). Received HW test and ProHeart inj 6/18/2021 (1 yr ago). Have not done any further diagnostics since echo last week.

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN***Urinary System*

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 minor nondependent particulate 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. Both kidneys exhibited nonspecific hyperechoic parenchyma with pinpoint mineralization around the corticomedullary border. 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 3.4 cm in length. The right kidney measured 3.9 cm in length.

The area of the aortic trifurcation was free of pathology.

No overt pathology in the area of the uterine remnant.

*Adrenal Glands*

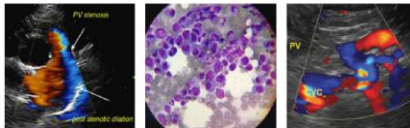
The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.52 cm width at the caudal pole and 0.51 cm width at the cranial pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.48 cm width at the caudal pole and 0.39 cm width at the cranial pole.

*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*

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

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svsimagingkc@gmail.com

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walls and primarily anechoic luminal content with mild luminal debris. The cystic and common bile ducts were normal.

***Gastrointestinal*****SPECIES**

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.

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.

**BREED**

Shih Tzu

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

***Pancreas*****SEX**

FS

The pancreas was normal in size and contour with isoechoic to heterogeneous parenchyma compared to adjacent omentum. No signs of active inflammation or neoplasia.

***Free Abdomen*****AGE**

10 yr

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

**ULTRASONOGRAPHIC FINDINGS****WEIGHT**

10.7 lb

- Nonspecific mild chronic renal changes with hyperechoic corticomedullary border echogenicity and pinpoint mineralization
- Minor gallbladder debris-incident
- Minor urinary bladder sediment
- Normal liver/spleen

**INTERPRETED BY**R. McKenzie Daniel,  
DVM, DABVP  
(Canine and Feline)**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Largely a geriatric abdomen without evidence of significant abdominal visceral pathology including no evidence of intra abdominal neoplastic criteria. Baseline renal staging to include urine C/S and UPC level could be considered.

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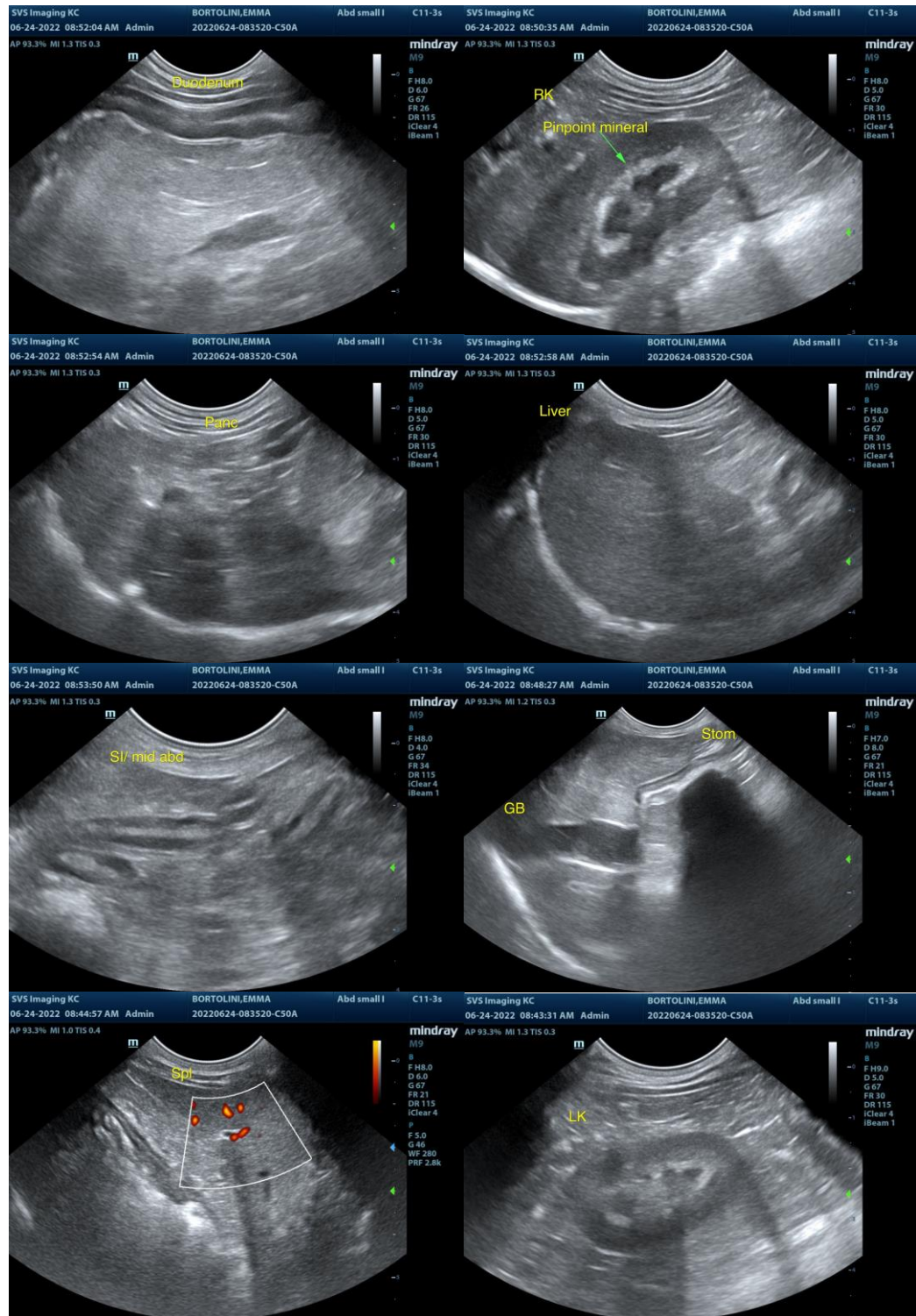
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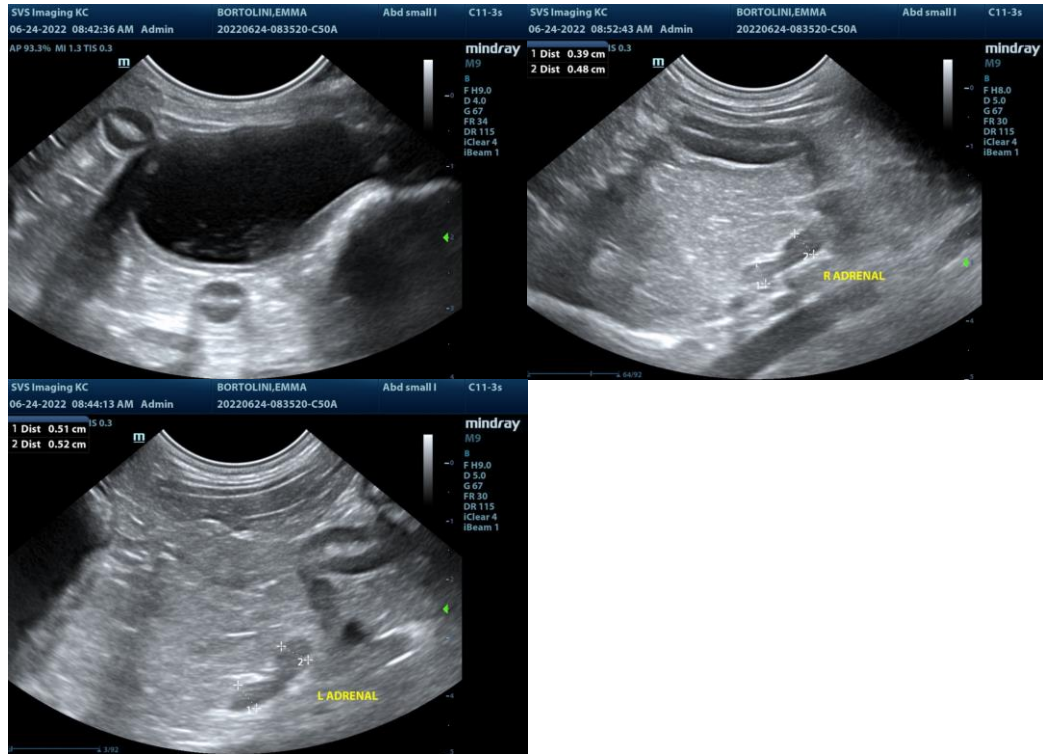
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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)

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