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| PATIENT | PRESENTING CLINICAL SIGNS |
| Sunshine Principato | mild wheezes with hacking/coughing when trachea palpated. gr 4-5/6 murmur both sides Abnormal PE/Chem/CBC/UA Results: SDMA 29, ALT 24, TP 38, ALB 17, GLOB 22 |
| SPECIES | ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN |
| Canine | Urinary System |
| BREED | The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2.0 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 was noted. |
| Maltese C | The area of the aortic trifurcation was free of pathology. |
| SEX | 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 3.1 cm in length. The right kidney measured 3.4 cm in length. |
| Spayed Female | Adrenal Glands |
| AGE | The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.51 cm width at the caudal pole and 0.52 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 0.66 cm width at the cranial pole. |
| 12 years | Spleen |
| WEIGHT | The spleen exhibited primarily finely textured parenchyma which was hyperechoic to the liver and renal cortical parenchyma. Mild generalized parenchyma heterogeneity was present without evidence of nodular changes. 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. The parenchymal heterogeneity is likely consistent with benign changes such as extramedullary hematopoiesis or age-related remodeling with minor potential for inflammatory or neoplastic disease. |
| 3.4 kg | Liver/ Gallbladder |
| INTERPRETED BY | The liver presented mildly enlarged in size. The parenchyma of the liver was subjectively normal in 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 vasculature exhibited subjective normal volume without evidence of congestion. The cranial abdominal caudal vena cava was subjectively non-distended in appearance. The gallbladder was non-distended in size with primarily anechoic luminal content. No evidence of gallbladder wall edema. The cystic and common bile ducts were normal. |
| R. McKenzie Daniel, DVM, DABVP | |
| IMAGING PERFORMED BY | |
| Kelly Reshny, RVT | |
| HOSPITAL NAME | |
| Beattie Pet Hospital Sotney Creek | |
| REFERRING VET | |
| Dr. Salib | |
| INVOICE | |
| 12194 | |
| DATE | |
| 9/8/21 | |



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| PATIENT | <i>Gastrointestinal</i> |
| Sunshine Principato | 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 gastric body wall width measured 0.34 cm. |
| SPECIES | |
| Canine | The small intestine exhibited intact wall layering with a subjective propensity for mildly prominent mucosa, as well as segmental mild mucosal speckling to subtle mucosal fogging. No evidence of loss of intestinal wall layering or Intestinal masses. The jejunum wall width measured 0.35 cm. |
| BREED | |
| Maltese C | Normal visible colon wall layers were present with subjective semi-formed to soft feces in lumen. |
| SEX | <i>Pancreas</i> |
| Spayed Female | 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 were evident. |
| AGE | <i>Free Abdomen</i> |
| 12 years | Generalized reactive mesentery along with mild subjectively acellular peritoneal free fluid. No overt lymphadenopathy was noted. |
| WEIGHT | ULTRASONOGRAPHIC FINDINGS |
| 3.4 kg | <i>Primary Findings</i> |
| INTERPRETED BY | <ul style="list-style-type: none">• Mild chronic renal changes• Mild vacuolar hepatopathy pattern• Segmental small bowel mucosal speckling to subtle mucosal fogging• Generalized reactive mesentery and mild subjectively acellular peritoneal free fluid |
| R. McKenzie Daniel, DVM, DABVP | <u>INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS</u> |
| IMAGING PERFORMED BY | Without overt evidence of hepatic congestion and pending echocardiographic assessment, the peritoneal free fluid in this case may be owing to decreased hydrostatic pressure secondary to hypoalbuminemia. |
| Kelly Reshny, RVT | Full urinary workup including urine protein: creatinine ratio to assess for evidence of proteinuria is recommended. If negative proteinuria, intestinal protein loss i.e., protein-losing enteropathy may be considered in this patient given the panhyperproteinemia and sonographic presentation of the intestinal tract even without evidence of gastrointestinal signs. Decreased protein production is considered unlikely, given the lack of hepatic pathology. Correlation with effusion analysis +/- cytology could be considered. |
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PATIENT

Sunshine Principato

SPECIES

Canine

BREED

Maltese C

SEX

Spayed Female

AGE

12 years

WEIGHT

3.4 kg

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP

**IMAGING
PERFORMED BY**

Kelly Reshny, RVT

HOSPITAL NAME

Beattie Pet Hospital
Sotney Creek

REFERRING VET

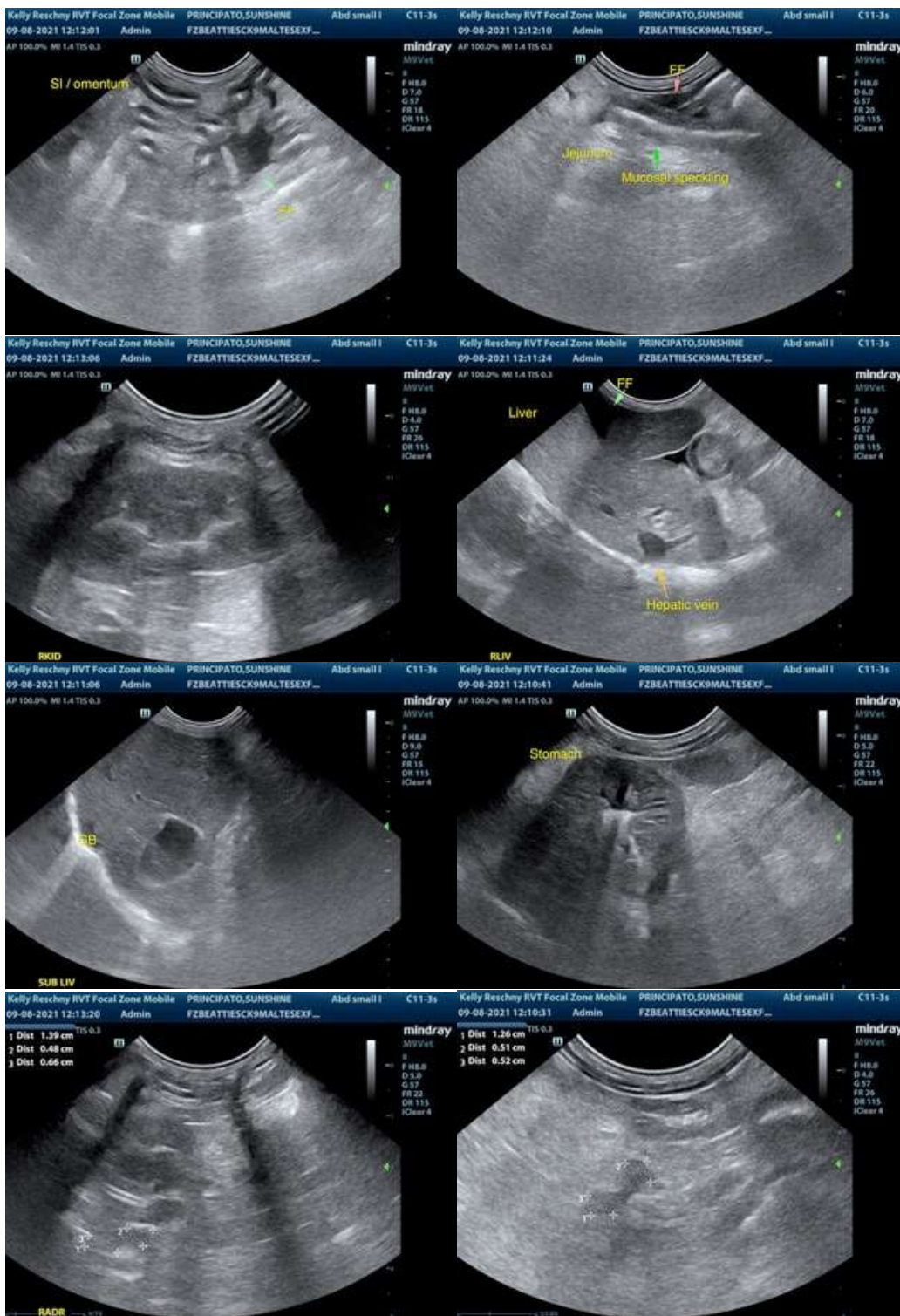
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not



PATIENT

visible in the image/video clips provided.

Sunshine Principato

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.

SPECIES

Canine

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)
info@SonoPath.com

BREED

Maltese C

SEX

Spayed Female

AGE

12 years

WEIGHT

3.4 kg

INTERPRETED BY

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DVM, DABVP

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