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Clinical Sonography & Telecytology
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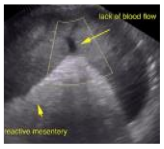
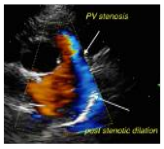
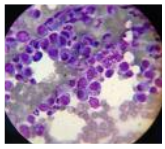
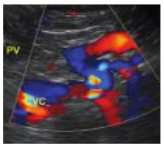





SonoPath.com
1-800-838-4268 info@sonopath.com

**PATIENT**

Milo Giyasova

**SPECIES**

Canine

**BREED**

Chihuahua

**SEX**

M/I

**AGE**

6

**WEIGHT**

1.4 kg

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Dr. Belan

**HOSPITAL NAME**

Animal Clinic Downtown

**REFERRING VET**

Dr. Waldman

**INVOICE**

17151

**DATE**

6/22/23

## PRESENTING CLINICAL SIGNS

Non clinical . Attending concerned about possible PSS or MHVD

Abnormal PE/Chem/CBC/UA Results: Elevated ALP but no Bile acids done

## ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

### *Urinary System*

The urinary bladder, trigone, and cystourethral junction exhibited normal thickness and tone. Anechoic urine was present in the lumen with no uroliths or sediment. No evidence of mineral or calculi was noted. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes was noted.

The prostate was mildly enlarged in size with an intact, symmetrical capsule contour. The margins of the gland were intact and able to be differentiated from the surrounding tissue. The prostatic parenchyma was mildly echogenic to heteroechoic without parenchymal mineralization. The prostate measured 1.4 cm diameter.

No evidence of pathology in the area of the aortic trifurcation.

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 3.0 cm in length. The right kidney measured 3.1 cm in length.

### *Adrenal Glands*

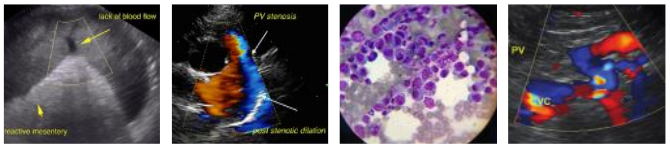
The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.27 cm width at the caudal pole and 0.32 cm width at the cranial pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.26 cm width at the caudal pole and 0.24 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/ 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 normal in appearance without signs of congestion. Normal to adequate hepatic vascular volume was noted. The gallbladder was non-distended in size with normal appearing gallbladder wall containing anechoic content with moderate, congealed yet nonorganized, hyperechoic gallbladder sediment. No evidence of peripheral gallbladder inflammatory criteria was noted. The cystic and common bile ducts were normal.

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### *Gastrointestinal*

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.

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

### *Pancreas*

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*

No overt lymphadenopathy or peritoneal effusion was present.

## ULTRASONOGRAPHIC FINDINGS

- Sonographically unremarkable liver exhibiting normal / adequate vascular volume - consistent with benign hepatopathy
- Moderate congealed yet nonorganized gallbladder sediment (non-mucocele)
- Sonographically unremarkable bilateral kidneys / urinary bladder - no evidence of renal or cystic mineral or calculi
- Heterogeneous pancreas
- Mild benign prostatic hyperplasia

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

No evidence of intrahepatic or extrahepatic macroscopic shunt was noted. Suspect vacuolar hepatopathy with potential nonobstructive cholestasis. Inflammatory hepatopathy is considered a less likely differential diagnosis.

Assuming normal clotting status, hepatic FNA cytology could be considered for further clarification. Core surgical biopsy is likely necessary for a definitive diagnosis.

Correlation with bile acid testing could be considered, yet no overt evidence of macroscopic shunt was noted.

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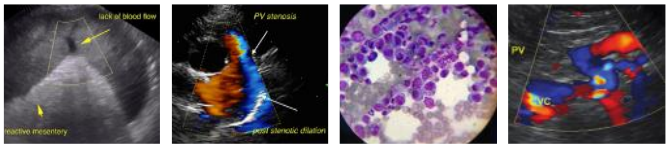


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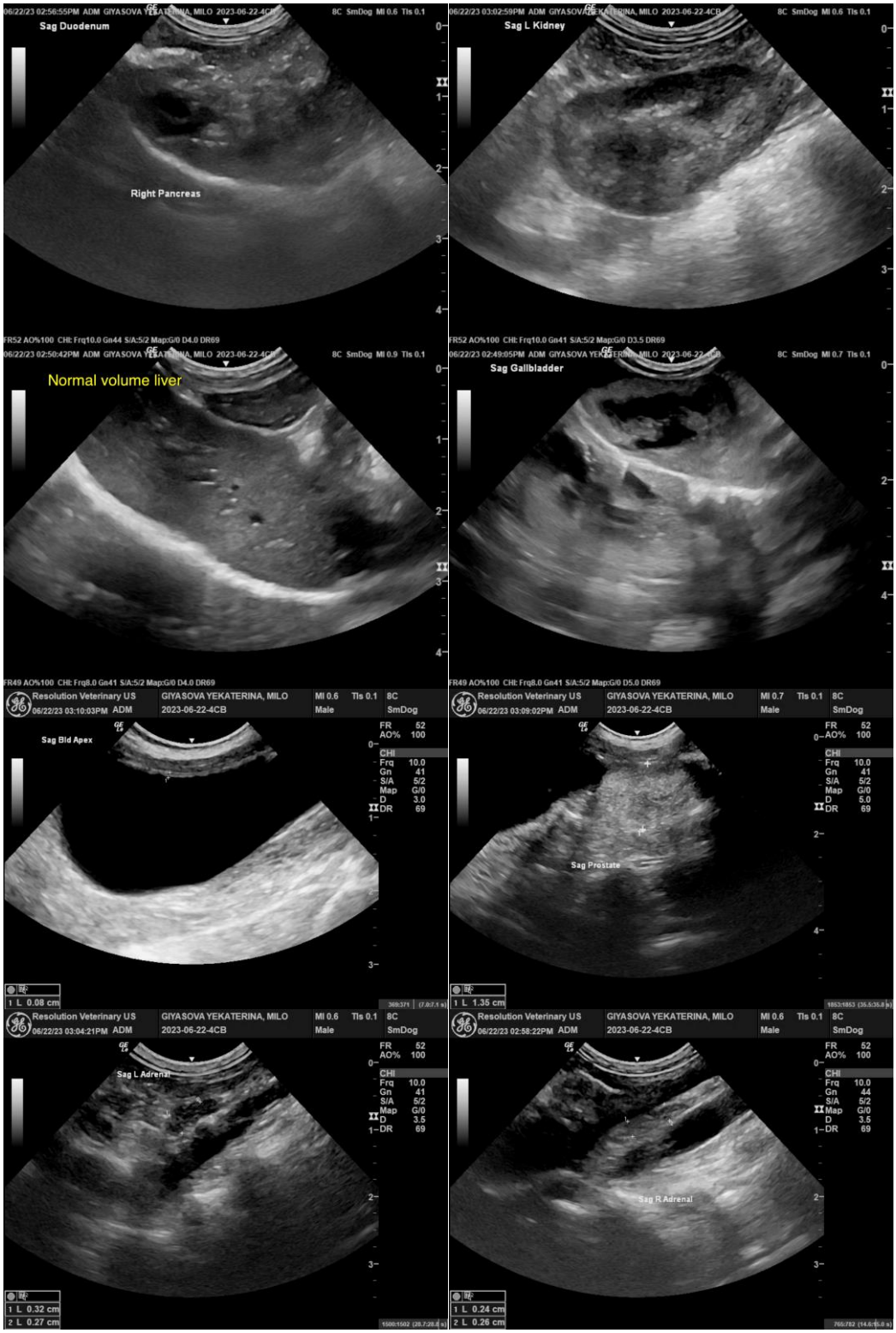


**The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.**

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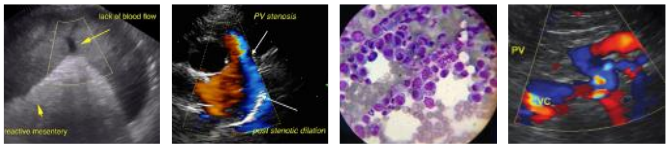


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Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance, please contact me.

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