

**PATIENT PRESENTING CLINICAL SIGNS**

Keith Minimian History of elevated ALP at 268.

**SPECIES**

Canine

**BREED**

Scottie

**SEX**

Male, intact

**AGE**

4 Yr. old

**WEIGHT**

22.6 lbs.

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

*Urinary System*

The urinary bladder wall is normal in thickness and the mucosal surface is smooth. The bladder lumen is mildly distended with anechoic urine. No masses, inflammatory changes or calculi are observed. Ureteral papillae and visualized portion of the proximal urethra, visible to a depth of 2 cm, are normal.

The prostate is enlarged (3.20 cm in width) with smooth curvilinear peripheral contours. The parenchyma is hyperechoic relative to surrounding omental fat and slightly heterogeneous in appearance. No distinct focal lesions are observed. The prostatic urethra is not overtly dilated.

The left kidney is normal size (5.23 cm in length); normal shape and architecture with smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with normal corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

The right kidney is normal size (5.59 cm in length); normal shape and architecture with smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with normal corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

*Adrenal Glands*

The left adrenal gland is normal size (0.38 cm at cranial pole) (0.41 cm at caudal pole); normal shape; homogenous parenchyma. The glandular echogenicity and detail are unremarkable. Capsule, cortex, and medullary definition are normal. The phrenicoabdominal vein and surrounding vasculature are normal.

The right adrenal gland is normal size (1.12 cm at cranial pole) (0.43 cm at caudal pole); normal shape; homogenous parenchyma. The glandular echogenicity and detail are unremarkable. Capsule, cortex, and medullary definition are normal. The phrenicoabdominal vein and surrounding vasculature are normal.

*Spleen*

The spleen is normal in size (1.65 cm in width at the level of the hilus) with a normal capsular contour. There is appropriate echogenicity and echotexture. No focal lesions are observed. Splenic vasculature is normal.

*Liver*

The liver is subjectively normal in size with normal contours and structure. There is appropriate echogenicity and echotexture. No overt structural evidence of inflammatory, infiltrative or regenerative pathology is evident. Vascular and biliary tracts are of normal volume with no evidence of congestion. No pathological hepatic lymphadenopathy observed. The portal vein: caudal vena cava ratio is approximately 1:1. The gallbladder is of normal contours and contains some dependent echogenic debris. The wall is normal in thickness. No choleliths are observed. The cystic and common bile ducts are normal.

*Gastrointestinal*

The stomach and intestine are free of stasis and exhibit normal peristaltic activity. The gastric lumen is not distended. The gastric wall and pylorus are normal in thickness with a normal layering pattern. The pyloric outflow tract is patent. The small intestinal lumen is not dilated. The small intestinal wall thickness is normal.

**INTERPRETED BY**

Andrea Nicastro, DVM,  
Diplomate ACVIM  
(Small Animal Internal  
Medicine)

**IMAGING PERFORMED BY**

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(Small Animal Internal  
Medicine)

**HOSPITAL NAME**

Southside Animal  
Hospital

**REFERRING VET**

Dr. Jaime Carroll

**INVOICE**

14626

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**PATIENT**

with a normal layering pattern and appropriate mural detail. Discreet masses are not identified. The colonic wall is normal. No obstructive disease is noted.

Keith Minimian

**Pancreas**

**SPECIES**

The region of the pancreas is isoechoic relative to surrounding omental fat. No obvious parenchymal abnormalities are observed. There is no evidence of regional inflammation or effusion.

Canine

**BREED**

**Free Abdomen**

Scottie

The peritoneal cavity is normal. There is no evidence of inflammation or effusion. The abdominal lymph nodes are normal/not visible.

**SEX**

**Other**

Male, intact

A brief echocardiogram reveals no evidence of pericardial effusion or obvious right atrial/auricular mass.

**AGE**

The testicles are subjectively normal in size (left 2.74 x 1.64 cm; right 2.80 x 1.36 cm), symmetrical with homogeneous parenchyma.

4 Yr. old

**ULTRASONOGRAPHIC FINDINGS**

**WEIGHT**

**Primary Findings:**

22.6 lbs.

- An obvious cause for the patient's elevated ALP is not identified in this study. However, given the patient's breed, Scottish Terrier vacuolar hepatopathy is suspected.

**Secondary Findings:**

- The prostate changes are most consistent with benign prostatic hyperplasia. Bacterial prostatitis is also a differential but considered unlikely in the absence of lower urinary tract signs.

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**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

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- If an aggressive approach is desired, consider laparoscopic or surgical liver biopsies with aerobic and anaerobic bile cultures as well as copper quantitation.
- If a more conservative approach is desired, consider rechecking liver values in 2-3 months. If liver values continue to increase, consider a repeat abdominal ultrasound +/- hepatic tissue sampling.
- Also consider castration to help prevent bacterial prostatitis, prostatic abscesses and cysts.

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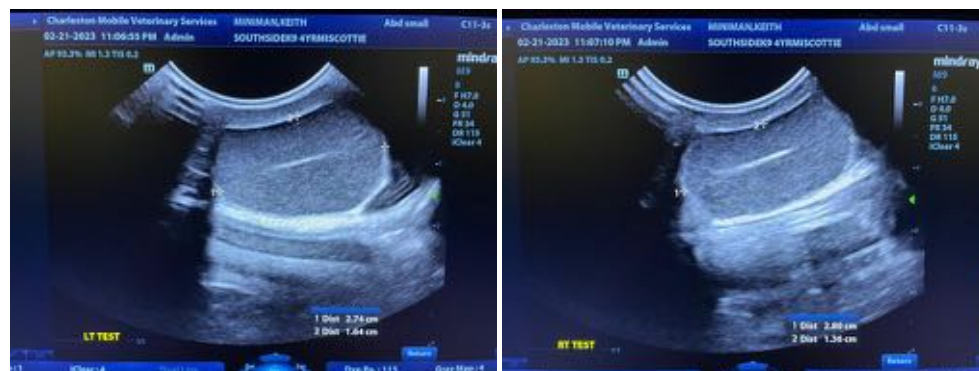
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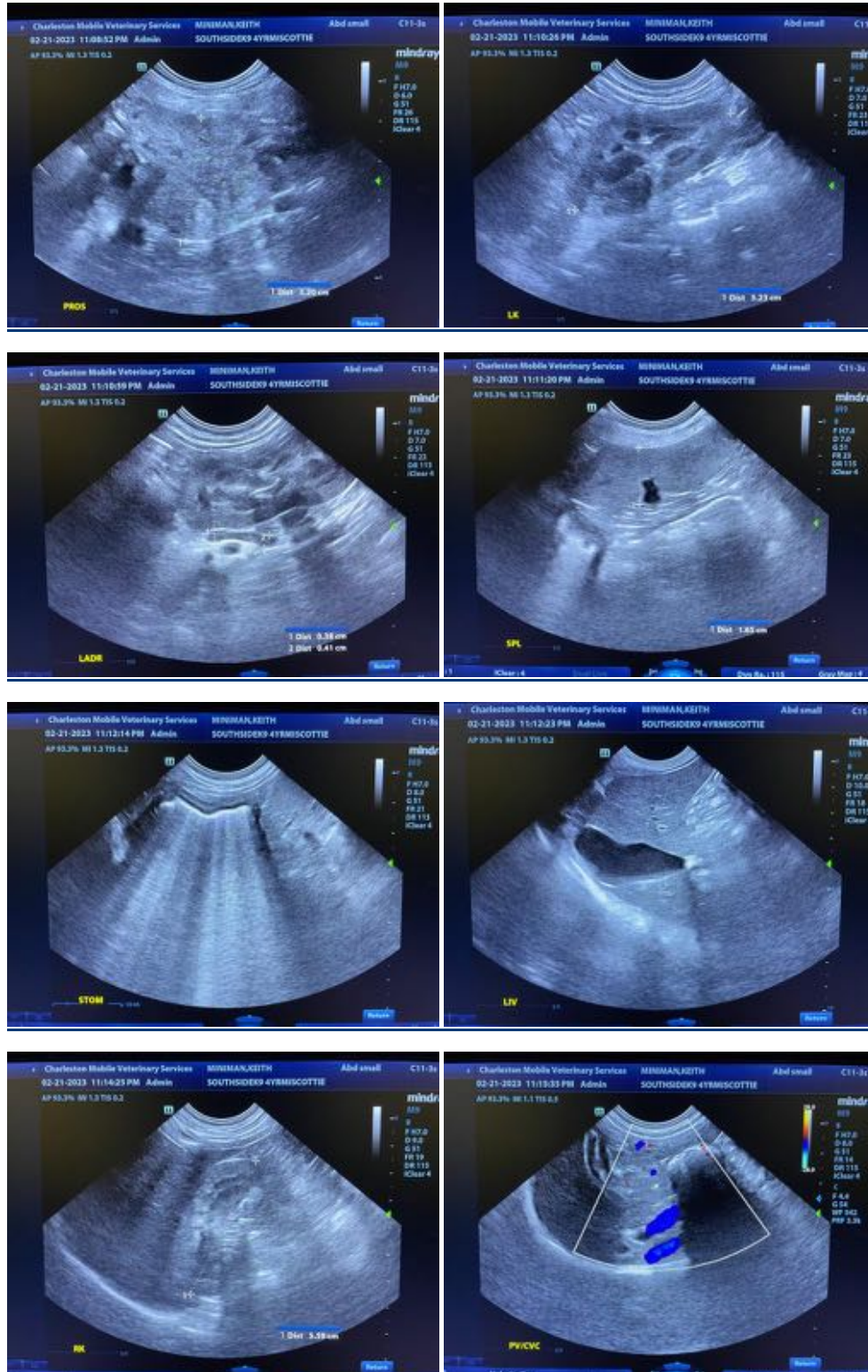
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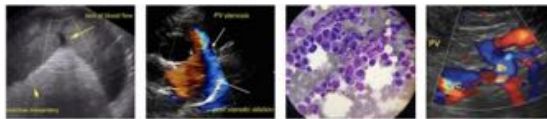
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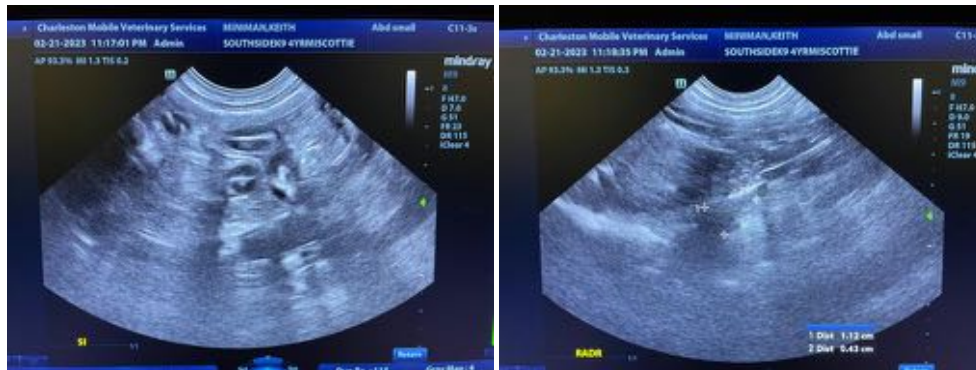
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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