



## PATIENT

Lexi Fischer

## PRESENTING CLINICAL SIGNS

AUS to further evaluate PU/PD and elevated ALP, proteinuria. LDDST wnl. No straining to urinate or blood in urine. Elevated transitional epithelial cells on UA.

## SPECIES

Canine

Abnormal PE/Chem/CBC/UA Results: - UA: USG 1.027, pH 5.5, Pro 2+, bld Trace, WBC 2-3/hpf, RBC 0-1/hpf, No casts, crystals, or bacteria. Transitional epithelia 4-10/ hpf - UPC: 1.0 (prev 2.0) - Chem: Alb 3.0, ALP 634 H, ALT 39-n, BUN 44 H, Cr 0.9, Chol 401 H, PrecisionPSL 266 H - CBC: Hct 42%, plt 410 H, mono 1008 H, remainder NSF - T4: 2.6-n

## BREED

Sheltie

## ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

### Urinary System

## SEX

FS

The urinary bladder was normal in size and tone. A sessile based, non-homogenous to focally hyperechoic ventral urinary bladder mass was present extending into lumen, measuring ~ 2.9 cm x 1.1 cm. Concurrent mass in the area of the ureteral papilla, measuring ~ 0.8 cm in diameter. No overt obstruction to urine outflow. The trigone, cystourethral junction, and visible pelvic urethra to a depth of 3 cm exhibited normal thickness and tone.

## AGE

14yr

Both kidneys exhibited moderate chronic renal changes and moderate to significant bilateral hydronephrosis. Concurrent left hydroureter exiting the left kidney extending caudally to the level of the urinary bladder was present. Dilated ureter at the level of the ureteral papilla. The right ureter was not definitively visualized. The left kidney measured 5.1 cm in length. The right kidney measured 4.8 cm in length.

## WEIGHT

15kg

The area of the iliac trifurcation was free of pathology including no evidence of medial iliac or sublumbar lymphadenopathy or masses.

## INTERPRETED BY

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

### Adrenal Glands

The bilateral adrenal glands were normal in size. Mild parenchyma heterogeneity and mild capsule asymmetry was present without suspicion for overt neoplasia. The left adrenal gland measured 0.58 cm width in the caudal pole. The right adrenal gland subjectively measured 0.50 cm width in the caudal pole.

## IMAGING PERFORMED BY

Renee Trionfetti, VMD

### 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.

## HOSPITAL NAME

Country Companion  
Animal Hospital

## REFERRING VET

Amanda Wanner, DVM

### 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. Normal vascular volume. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal.

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### Gastrointestinal



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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 mechanical/metabolic ileus, obstruction or foreign material.

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

### *Pancreas*

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.

### *Free Abdomen*

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

## ULTRASONOGRAPHIC FINDINGS

### Primary

- Urinary bladder masses
- Associated bilateral hydronephrosis with visualized left hydroureter
- Sonographically normal liver / gallbladder -consistent with mild benign hepatopathy sonographically normal bilateral adrenal glands

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The urinary bladder masses are consistent with neoplastic criteria, i.e. transitional cell carcinoma with secondary definitive left and probable right ureter obstruction with secondary bilateral hydronephrosis. A screening BRAF assay is warranted. No overt current evidence of regional lymphatic metastasis. Curative surgical options appear precluded, although consideration for stent placement in order to preserve renal function could be considered.

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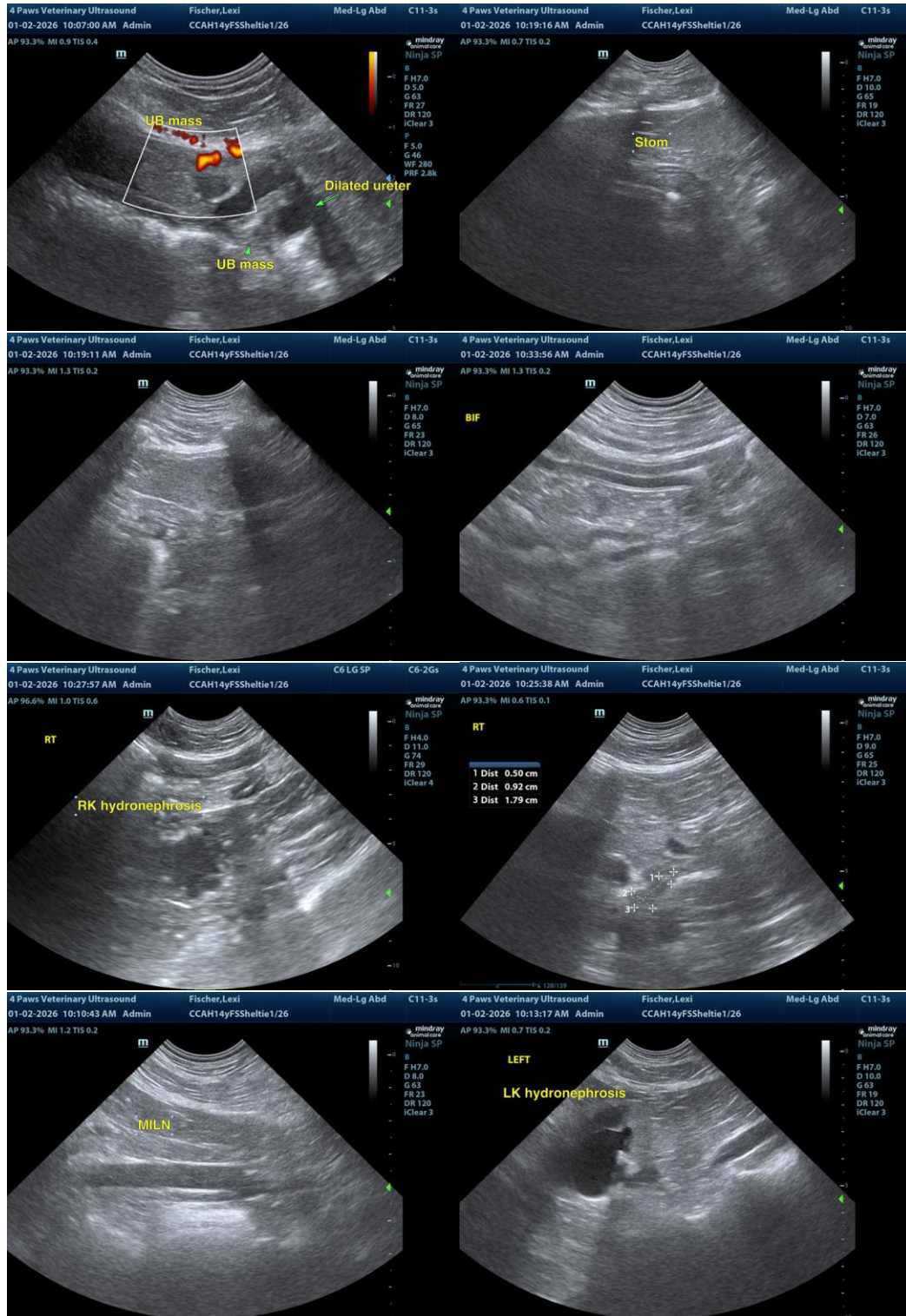
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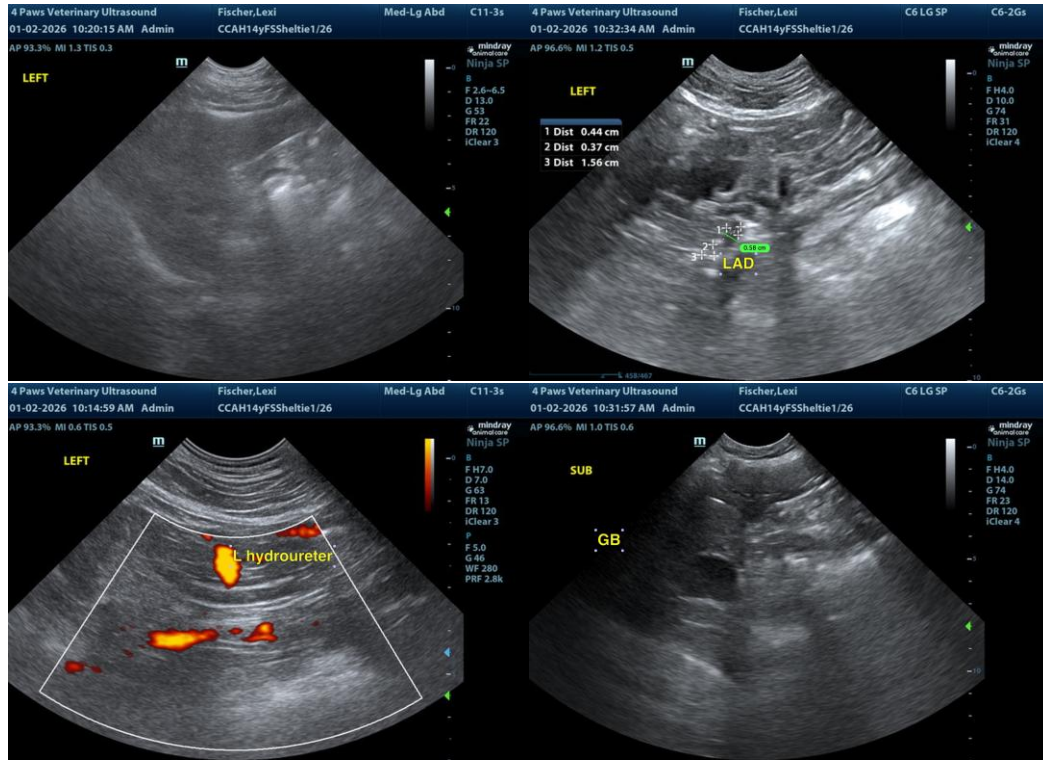
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**AGE**

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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.

**INTERPRETED BY**

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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.

**IMAGING PERFORMED BY**

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