



PATIENT

Furley Belekdanian

SPECIES

Canine

BREED

Yorkshire Terrier

SEX

Neutered male

AGE

12 years

WEIGHT

10.5 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Belekdanian

HOSPITAL NAME

Tenafly VC

REFERRING VET

Dr. Belekdanian

INVOICE

44190

DATE

5/4/23

PRESENTING CLINICAL SIGNS

History: DOCTORS PET : Furley Belekdanian, 12 year old MN Yorkshire Terrier - Presented for pollakiuria and PU/PD for several months. Was diagnosed with nephroliths and a cystolith back in 2020 by Oradell IM (initially not there for stones, there for intermittent vomiting). Most recent annual bloodwork and urinalysis was done in December, 2022. Bloodwork normal, urinalysis showed 4+ white blood cells and red blood cells (no other significant abnormalities). Another CBC/chem and urinalysis was done yesterday on 5/3/2023. Bloodwork was normal, urine was clear. Urinalysis showed a USG of 1.020, UPC of 0.6, protein of +1, pH of 5.5, WBC of 0-2 and RBC's of 2-5. Azotemia was not seen, but BUN and SDMA were on the higher end of normal reference interval.

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The ureters were not visible which is normal. No uroliths or sediment were visualized and anechoic urine was present. No evidence of inflammatory or neoplastic changes was noted. Ureteral papillae were normal.

Prostatic urethral sand was noted in this patient as well as sand in the bladder.

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some age-related loss of curvilinear patterns regarding the capsule and C/M junction. The cortices presented largely uniform texture with some increased echogenicity expected for his age patient. Medullary structure differed distinctly from that of the cortex and no evidence of pelvic dilation was present. Mineralization was noted in the kidneys. The right kidney measured 3.44 cm. Right renal calculus measured 0.5 cm. The left kidney measured 4.06 cm with pelvic mineralization and moderate degenerative changes. Occasional cortical cyst was noted.

Adrenal Glands

Both **adrenal glands** were visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. The left adrenal gland measured 0.5 cm. The right adrenal gland measured 0.64 cm.

Spleen

The **spleen** in this patient was mildly enlarged with uniform parenchyma and was folded upon itself. This is a positional variant and is not pathological. There was no evidence of significant disease.

Liver

The **liver** images from right and left intercostal as well as subcostal views revealed subjectively normal liver size, contour, and structure. Some age-related parenchymal remodeling was noted but likely not clinically significant at this time. Vascular and biliary tracts were of normal volume and no evidence of congestion was noted. The gallbladder presented some dependent debris with essentially normal contour. The cystic and common bile ducts were normal. No overt evidence of active inflammatory, infiltrative or regenerative pathology was noted but should be paired with current or past LE elevations regarding any clinical significance to this presentation. The hepatic lymph nodes were unremarkable.



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Gastrointestinal

Examination of the **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. Small and large intestine demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.

Pancreas

The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Pancreatic duct and capsular contour were acceptably normal and parenchyma respected normal curvilinear patterns. No overt evidence of active inflammatory or neoplastic disease was noted.

ULTRASONOGRAPHIC FINDINGS

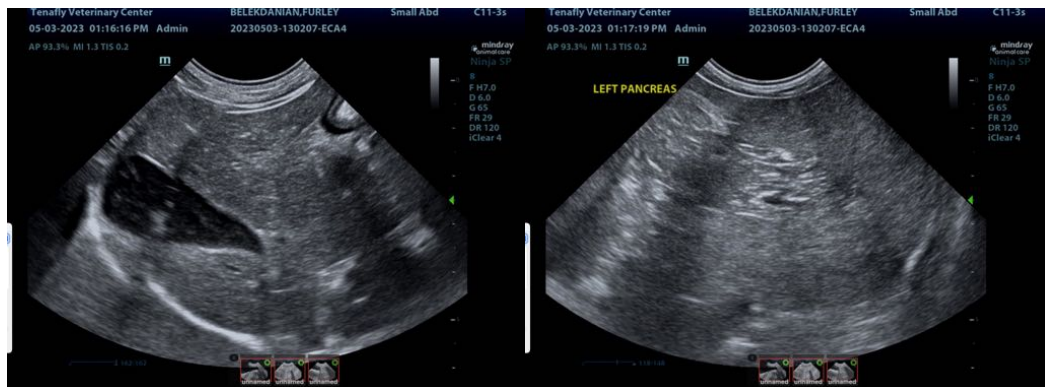
Moderate degenerative renal changes with non-obstructive nephrolithiasis. Changes are considered moderate.

Urethral sand. More bladder sand was present than was visible on the still images submitted.

Passage of calculi is the likely underlying issue.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Cystotomy, stone analysis with normal grade and retrograde flushing of the urethra.





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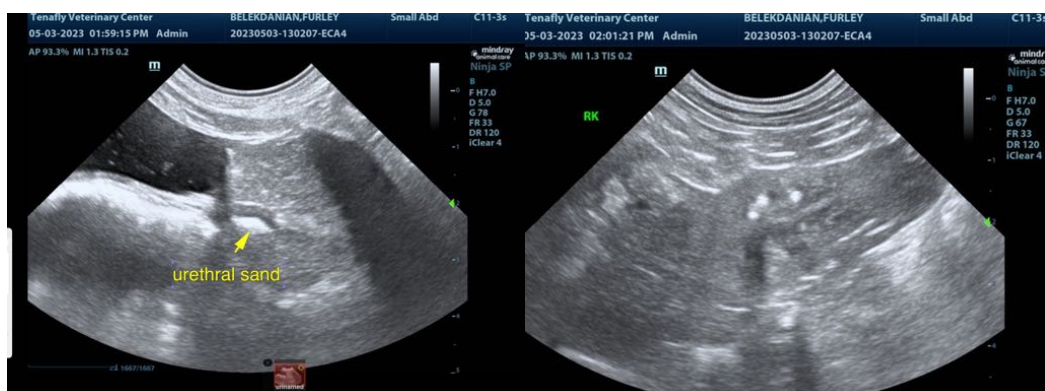
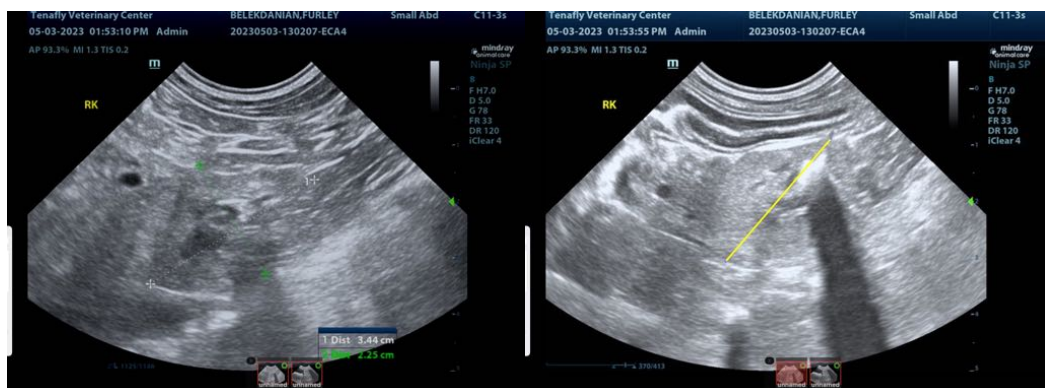
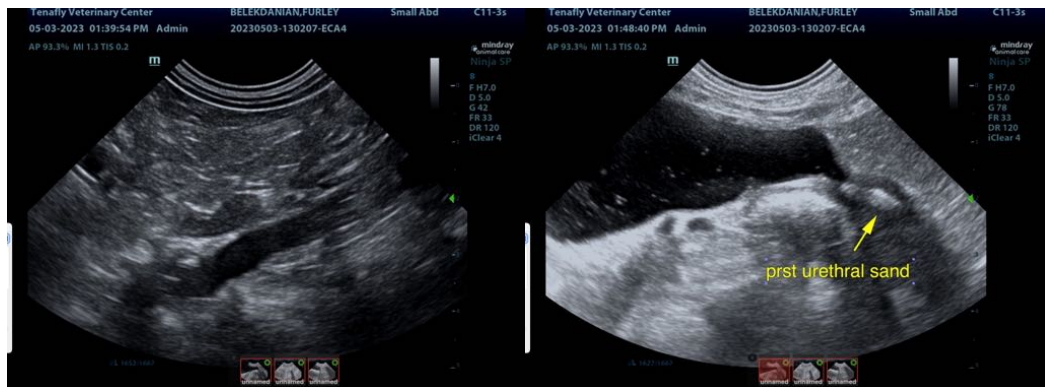
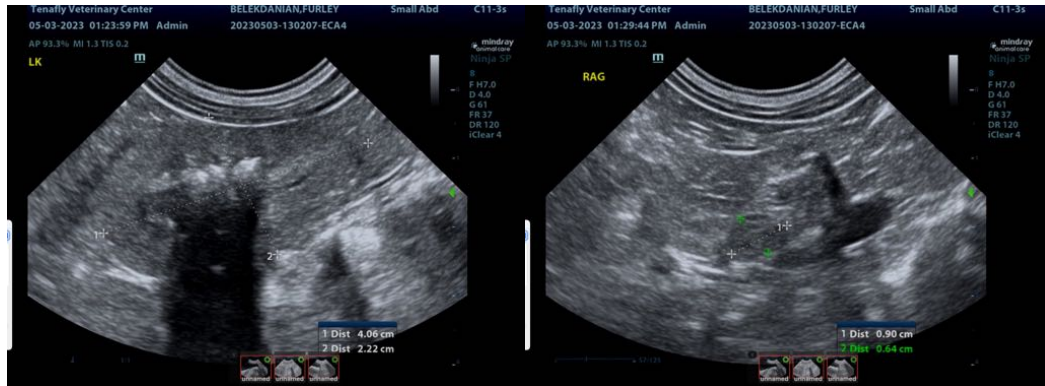
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Eric Lindquist, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com
info@SonoPath.com