



PATIENT PRESENTING CLINICAL SIGNS

Tread Faherty

History: in and out of the litter box

SPECIES

Abnormal PE/Chem/CBC/UA Results: UA: islands of epithelial cells of differing sizes; No UTI, no blood; USPG >1.050

Feline

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED

Urinary System

DSH

The urinary bladder, trigone, and pelvic urethra are normal in thickness and the mucosal surface is smooth. The bladder lumen is moderately distended with anechoic urine. No masses, inflammatory changes or calculi are observed. The region of the trigone is normal. The proximal urethra, visible to a depth of 2 cm, appears mostly normal with a questionably thickened area, more distally.

SEX

Spayed Female

The left kidney is normal size (3.47 cm in length); with a slightly irregular shape. The cortex is variably thickened. There is moderate loss of corticomedullary distinction. Several small nonobstructive nephroliths are present. Moderate to severe pyelectasia is seen (0.58 cm in the longitudinal plane). Hydroureter is also seen (0.19 cm in diameter), approximately 1-2 cm from the renal pelvis, after which the ureter is no longer seen. Renal vasculature is normal.

AGE

15 years

The right kidney is normal size (4.13 cm in length); normal shape and architecture with smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with minimal to mild loss of corticomedullary distinction. Hyperechoic shadowing diverticular foci are visualized, +/- a few tiny nephroliths. There is no evidence of pyelectasia, infarcts or hydroureter. Renal vasculature is normal.

WEIGHT

8.24 lbs

Adrenal Glands

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The left adrenal gland is normal size (0.80 cm length; 0.32 cm width). Normal shape and glandular echogenicity. The phrenicoabdominal vein and surrounding vasculature are normal.

Andrea Nicastro, DMV,
Diplomate DACVIM
(Small Animal
Internal Medicine)

The right adrenal gland is mildly enlarged (0.94 cm length; 0.65 cm width), with swollen contours. The parenchyma is relatively homogenous. Surrounding vasculature appears normal. Normal shape and glandular echogenicity. The phrenicoabdominal vein and surrounding vasculature are normal.

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Diane McFadden

Spleen

The spleen is normal in size (0.90 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.

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Wantage VH

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 to caudal vena cava ratio is approximately 1: 1.

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The gall bladder lumen is moderately distended. The wall is thin and smooth. Luminal contents are anechoic. The cystic and common bile ducts are normal.

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Gastrointestinal

The stomach and intestine are free of stasis and exhibit normal peristaltic activity. The gastric lumen is mildly fluid 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

DATE

2/15/22



PATIENT

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

Tread Faherty

SPECIES

Pancreas

The right limb of the pancreas is visible with normal curvilinear peripheral contours. The parenchyma is largely isoechoic relative to surrounding omental fat and slightly mottled in appearance. The pancreatic duct is visible but not overtly dilated (0.19 cm in diameter). There is no evidence of peripancreatic inflammation or effusion.

Feline

BREED

Free Abdomen

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

DSH

SEX

ULTRASONOGRAPHIC FINDINGS

Spayed Female

Primary Findings

AGE

- Bilateral degenerative renal changes with nonobstructive nephrolithiasis and left severe pyelectasia and hydroureter. Differentials for the hydroureter/pyelectasia include ureteral stricture, ureterolith or tumor, pyelectasia, other.
- Questionable focal urethral thickening. This may represent imaging artifact, urethritis, or emerging neoplasia.

15 years

WEIGHT

Secondary Findings

8.24 lbs

- The mild right adrenomegaly may be a normal variant for this patient or may be secondary to stress, hyperplasia, or an emerging tumor

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Andrea Nicastro, DMV,
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Internal Medicine)

- A urine culture and sensitivity is recommended to help further assess for pyelonephritis. If negative, still consider empirical treatment (i.e., fluoroquinolone) to see if clinical signs improve. If clinical signs do not improve and stranguria (vs. straining to defecate) is confirmed, further workup (i.e., contrast study) may be necessary to further evaluate the lower urinary tract.
- Baseline lab work, including a CBC Chemistry panel and T4 is also recommended to assess overall metabolic function.
- A repeat ultrasound is recommended in 3-4 weeks to reassess the left renal and urethral changes.
- Given the patient's age, three-view thoracic radiographs are recommended to assess cardiopulmonary status, particularly if she must go under anesthesia for any reason.

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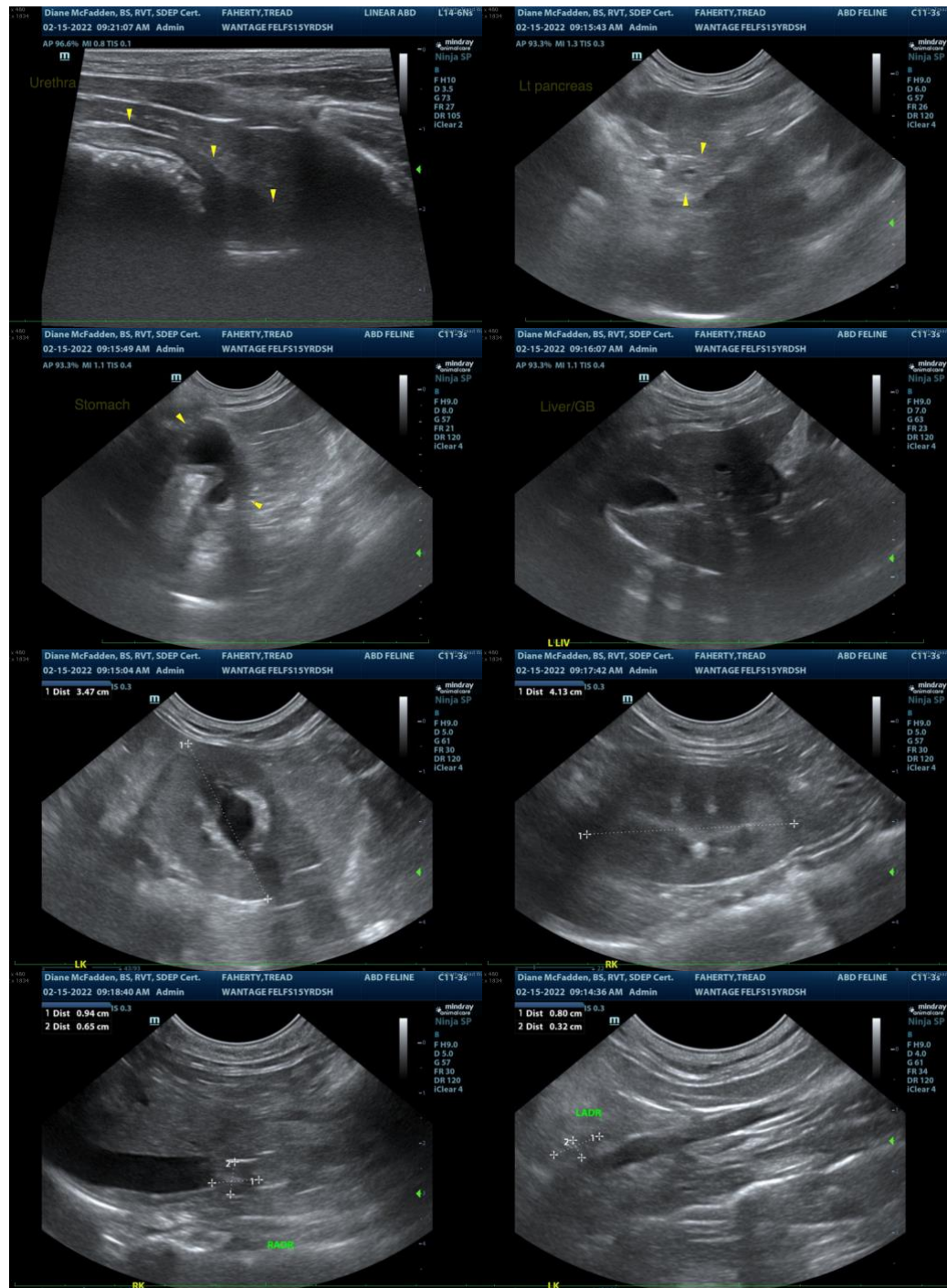
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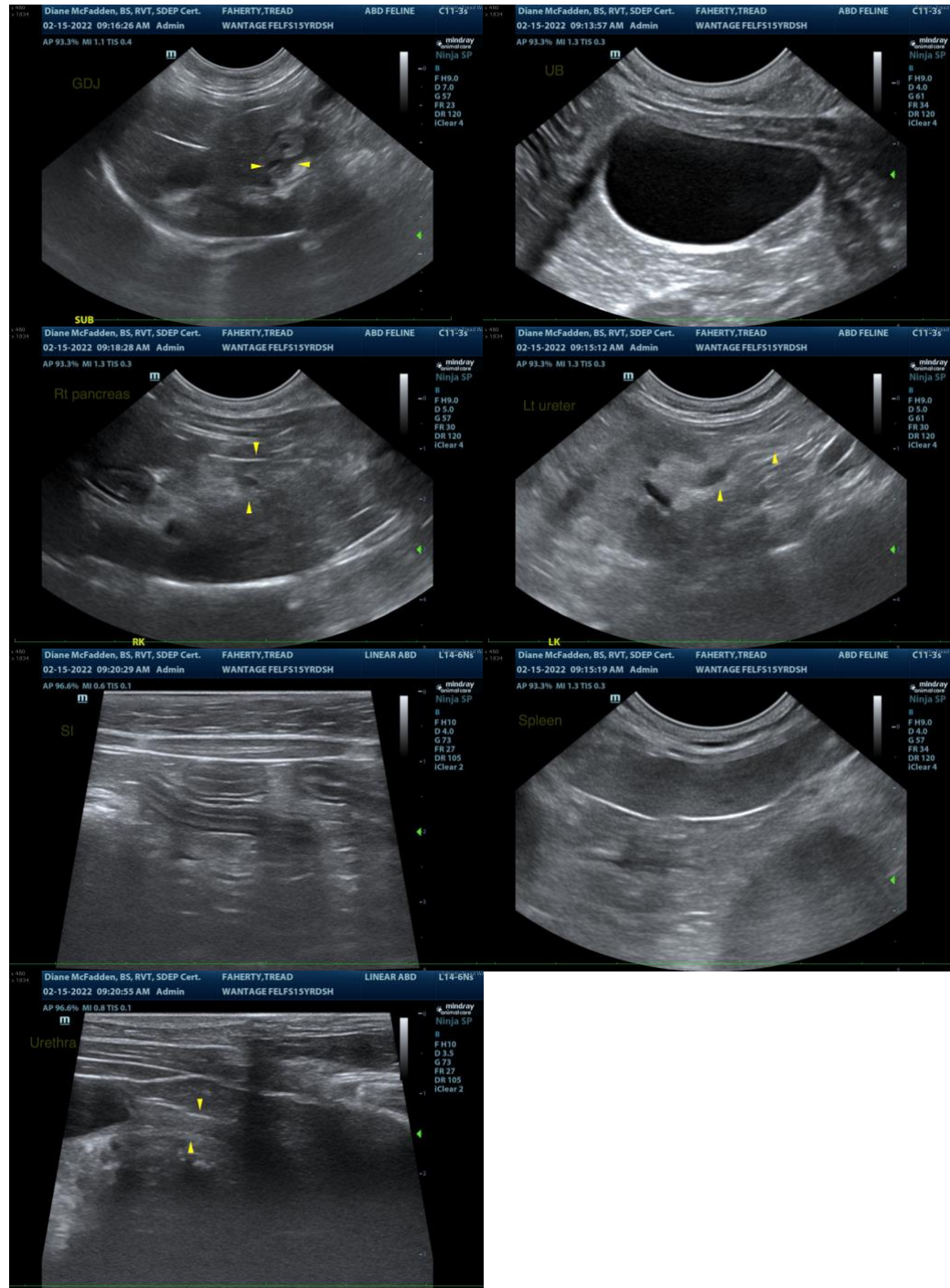
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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.

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