



PATIENT PRESENTING CLINICAL SIGNS

Codi Theiss History: Urinary incontinence while sleeping, dog has mild urine staining on abdomen (white) and becomes aggressive with placement of a male diaper

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Canine **Urinary System**

BREED

French Bulldog

SEX

Neutered Male

AGE

2017

WEIGHT

26 Pounds

INTERPRETED BY

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

IMAGING PERFORMED BY

Rebekah Jakum, CVT
 ARDMS/RVT

HOSPITAL NAME

New Britain VC

REFERRING VET

Dr. Bandekar

INVOICE

14597

DATE

4/4/22

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

The residual prostate exhibited normal to expected size for a young, neutered male. Subtle heterogeneous parenchyma was present in the residual prostate with maintained symmetrical capsule contour discernable from surrounding tissue. No evidence of residual prostatomegaly. The residual prostate measured 0.97 cm in diameter. The proximal urethra exhibited normal structure and tone to a depth of 2.0 cm.

The area of the aortic trifurcation was normal.

Normal size and margination were present in the left kidney. 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 pyelectasia. The left kidney measured 4.5 cm in length.

The right kidney was mildly subnormal in size compared to the left with subtle subjective rounded to bulbous appearing contour. Similar corticomedullary echogenicity was noted between the left and right kidney with adequate corticomedullary border distinction and maintained 1:3 cortex to medulla ratio. No evidence of pyelectasia. The right kidney measured 5.2 cm.

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 2.5 cm in length x 0.54 cm width at the caudal pole.

The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 2.1 cm in length x 0.60 cm width at the caudal pole.

No evidence of adrenal hyperplasia or neoplastic criteria.

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

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. The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal.



PATIENT *Gastrointestinal*

Codi Theiss 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.

SPECIES 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.

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

BREED *Pancreas*

French Bulldog 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.

SEX *Free Abdomen*

Neutered Male No overt lymphadenopathy or peritoneal effusion was present.

AGE **ULTRASONOGRAPHIC FINDINGS**

- 2017
- Sonographically unremarkable urinary bladder, residual prostate and visible proximal urethra
 - Overtly normal bilateral kidneys with minor nonspecific right kidney rounded to bulbous contour- likely right kidney patient variant. Not consistent with right kidney pathology (i.e., pyelonephritis, dysplasia, neoplasia or other).

WEIGHT
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INTERPRETED BY **INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

R. McKenzie Daniel, DVM, DABVP (Canine and Feline) Overall, sonographically unremarkable abdomen without evidence of visceral pathology, specifically no evidence of upper or lower urinary tract pathology as an obvious cause of the patients clinical signs. Potentially, the urinary incontinence while sleeping may suggest nocturnal enuresis with potential for focal suture like episodes at night considered a less likely differential diagnosis. True incontinence is considered less likely given the lack of reported incontinence during the day. No evidence of congenital lower urinary tract abnormalities, such as ectopic ureter. A full urinary work up, as well as thorough neurological examination is suggested, if not done.

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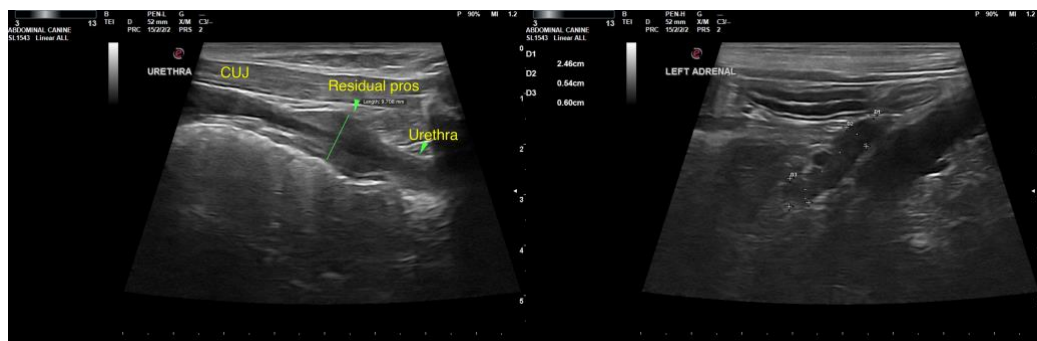
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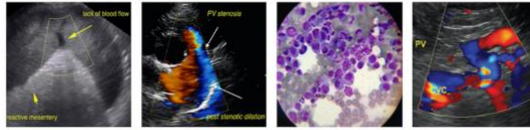
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.



PATIENT

Codi Theiss

R. McKenzie Daniel, DVM, DABVP (Canine/Feline Practice)

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