

PATIENT PRESENTING CLINICAL SIGNS

Becket Fusaro Presenting for insulin resistance. Was diagnosed diabetic a few months ago and was well regulated on Novolin 30 IU, but suddenly was unable to control blood glucose below 400 throughout the day with blood glucose curve (every 2 hours). BW, UA all normal otherwise. ? evidence of Cushing's disease or other causes for insulin resistance.

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED *Urinary System*

Labrador Retriever

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3.0 cm 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.

SEX

Spayed Female

The area of the aortic trifurcation was free of pathology.

AGE

7 Years

Normal size and margination was present in the kidneys. 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 pelvic dilation. The left kidney measured 6.9 cm. The right kidney measured 7.2 cm.

Adrenal Glands

WEIGHT

98 Pounds

A small, discreet, uniform, mildly echogenic, non-expansive nodule was noted in the mid left adrenal gland, measuring 0.34 cm in width. The overall left adrenal gland is normal in size without evidence of hyperplasia, measuring 0.68 cm at the cranial pole and 0.83 cm at the caudal pole. This is likely suggestive of a benign process such as adenoma, granuloma or myelolipoma if no clinical signs of adrenal disease are currently present. Potential emerging aggressive neoplasia cannot be ruled out. Therefore, recheck ultrasound every 3-6 months is suggested to monitor for changes in size or appearance. A screening blood pressure is suggested.

INTERPRETED BY

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

The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.55 cm at the cranial pole and 0.71 cm at the caudal pole.

IMAGING PERFORMED BY

Pamela Harrigan, RDMS

Spleen

HOSPITAL NAME

Wood River AH

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.

REFERRING VET

Dr. Casey Schuelke

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 mildly congealed yet non-organized, non-mineralized debris. The cystic duct and common bile ducts were normal without evidence of dilation.

INVOICE

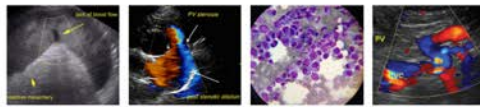
33579

Gastrointestinal

DATE

12/19/21

The stomach presented intact wall layering with a normal wall layer ratio. Minor retained anechoic fluid was present in the stomach. Gastric body wall measured 0.50 cm.



PATIENT

Becket Fusaro

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. Duodenum wall measured 0.40 cm. Jejunum wall measured 0.36 cm.

SPECIES

Canine

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.

BREED

Labrador Retriever

Free Abdomen

No omental masses, lymphadenopathy or effusion.

SEX

Spayed Female

ULTRASONOGRAPHIC FINDINGS

- Small left adrenal nodule – suspect adenoma.
- Mild gallbladder debris (non-mucocele)
- Possible mild gastric hypomotility

AGE

7 Years

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Overall, no overt evidence of significant visceral pathology as an obvious cause of insulin resistance. The gallbladder debris may be secondary to fasting or indicate nonclinical cholestasis. Potential for mild gastric hypomotility given the mild retained fluid if evidence of vomiting, anorexia, etc., although the mild gastric fluid is non-specific. Sonographic monitoring of the small left adrenal nodules for evidence of progression with initial recheck in 6-8 weeks would be ideal. Urine culture and sensitivity on sterile urine sample recommended given the likelihood of glucosuria. Adrenal workup could be considered if clinical suspicion for hyperadrenocorticism.

WEIGHT

98 Pounds

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 DABVP (Canine and Feline)

Potential Causes of Diabetic Dysregulation
 This is a suggestive checkoff list when faced with an unregulated diabetic patient:

IMAGING PERFORMED BY

Pamela Harrigan, RDCS

- UTI
- Dietary indiscretion/intolerance
- Pancreatitis
- Hyperthyroidism/hypothyroidism
- Exogenous steroids (including topical eye meds)
- Cushing's
- Owner compliance
- Insulin quality issues
- Antibodies to insulin
- Underlying Neoplasia

HOSPITAL NAME

Wood River AH

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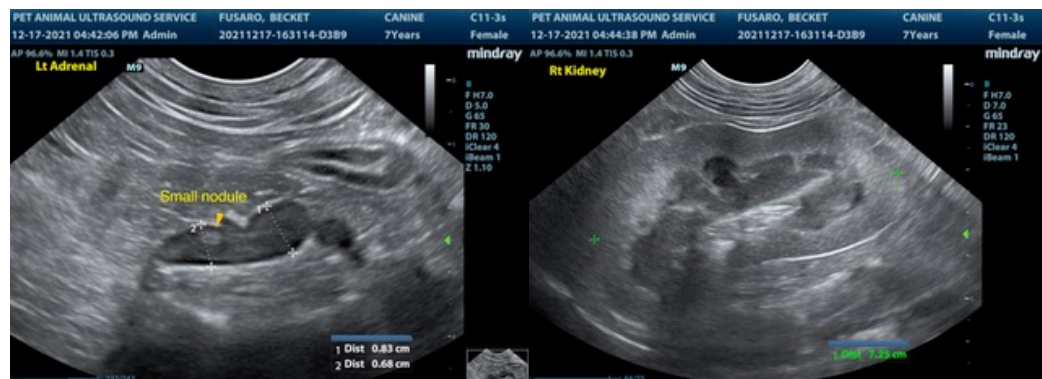
Dr. Casey Schuelke

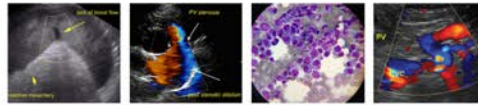
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PATIENT

Becket Fusaro

SPECIES

Canine

BREED

Labrador Retriever

SEX

Spayed Female

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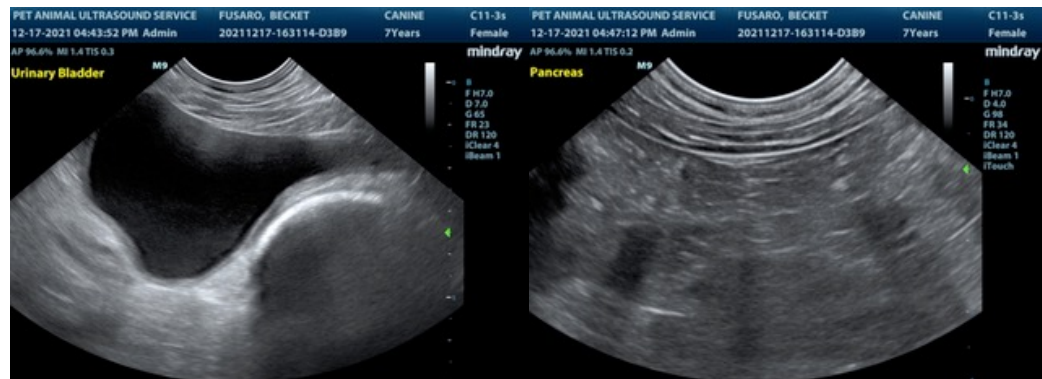
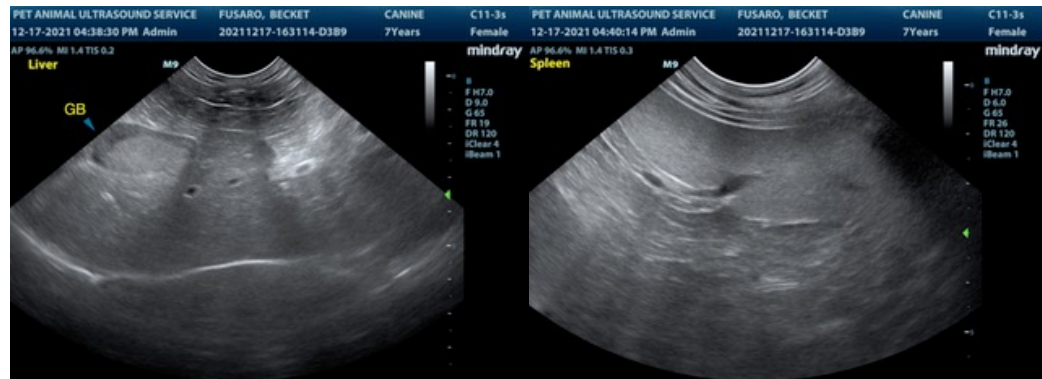
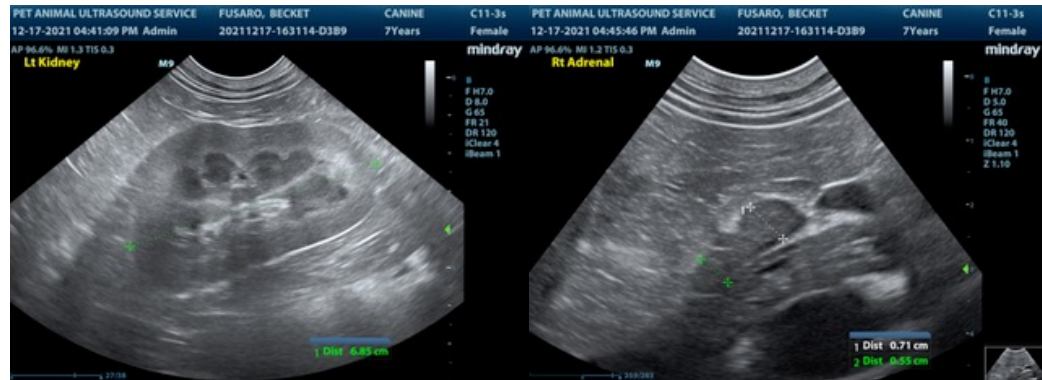
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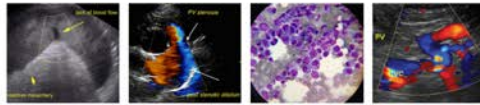
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PATIENT

Becket Fusaro

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.

SPECIES

Canine

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.

BREED

Labrador Retriever

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)
info@SonoPath.com

SEX

Spayed Female

AGE

7 Years

WEIGHT

98 Pounds

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