



PATIENT

Bella Ruse Barks

SPECIES

Canine

BREED

Shih Tzu

SEX

Spayed Female

AGE

8 Years

WEIGHT

185

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Linda Grau

HOSPITAL NAME

Fredon AH

REFERRING VET

Dr. Linda Grau

INVOICE

21162

DATE

2/17/23

PRESENTING CLINICAL SIGNS

History: recently acquired by rescue, history of abnormal liver levels on bloodwork September and January, hasn't been thriving in shelter, started with vomit/poor appetite and diarrhea

Abnormal PE/Chem/CBC/UA Results: unkempt, aggressive, difficult to interpret reactions Glucose 508, ALT 456, GGT 19, Lipase 2784, snap CPLI equivocal presumed secondary (possibly transient) diabetes secondary to pancreatitis. on fluids, cerenia, metronidazole, slight improvement today

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The **urinary bladder** was not imaged.

The **kidneys** were normal in size and contour; however, a minor hyperechoic ring was noted at the corticomedullary junction. This is a mild change, consistent with diabetic nephropathy. This is likely from glucosuria. However, assessment for proteinuria is also warranted. This is an idiopathic finding, but an expected finding in diabetic patients. The left kidney measured 4.5 cm. Blood flow to the kidneys appeared to be adequate. The right kidney measured 4.9 cm.

Adrenal Glands

The **adrenal glands** were not visualized.

Spleen

The **spleen** in this patient was uniform, yet volume contracted. Hydration status should be assessed.

Liver

The **liver** revealed generalized enlargement. Gallbladder debris was noted, not to the level of mucocele formation, however, proactive treatment is recommended. Attenuated hyperechoic parenchyma was noted.

Gastrointestinal

Gastric hypertrophy was noted. The small intestine and colon were unremarkable.

Pancreas

The **pancreas** was hypoechoic and mildly irregular in the left and right limbs, suggestive for inflammation.

ULTRASONOGRAPHIC FINDINGS

- Diabetic nephropathy
- Diabetic hepatopathy
- Probably minor pancreatitis
- Gastric hypertrophy
- Volume contracted spleen

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

If adrenal disease is suspected, further imaging of the adrenal glands is indicated. Further imaging of



PATIENT the urinary bladder is recommended.

Bella Ruse Barks

Potential Causes of Diabetic Dysregulation

This is a suggestive checkoff list when faced with an unregulated diabetic patient:

SPECIES

UTI

Canine

Dietary indiscretion/intolerance

BREED

Pancreatitis

Shih Tzu

Hyperthyroidism/hypothyroidism

Exogenous steroids (including topical eye meds)

SEX

Cushing's

Spayed Female

Acromegaly

AGE

Owner compliance

8 Years

Insulin quality issues

Antibodies to insulin

WEIGHT

Underlying Neoplasia

185

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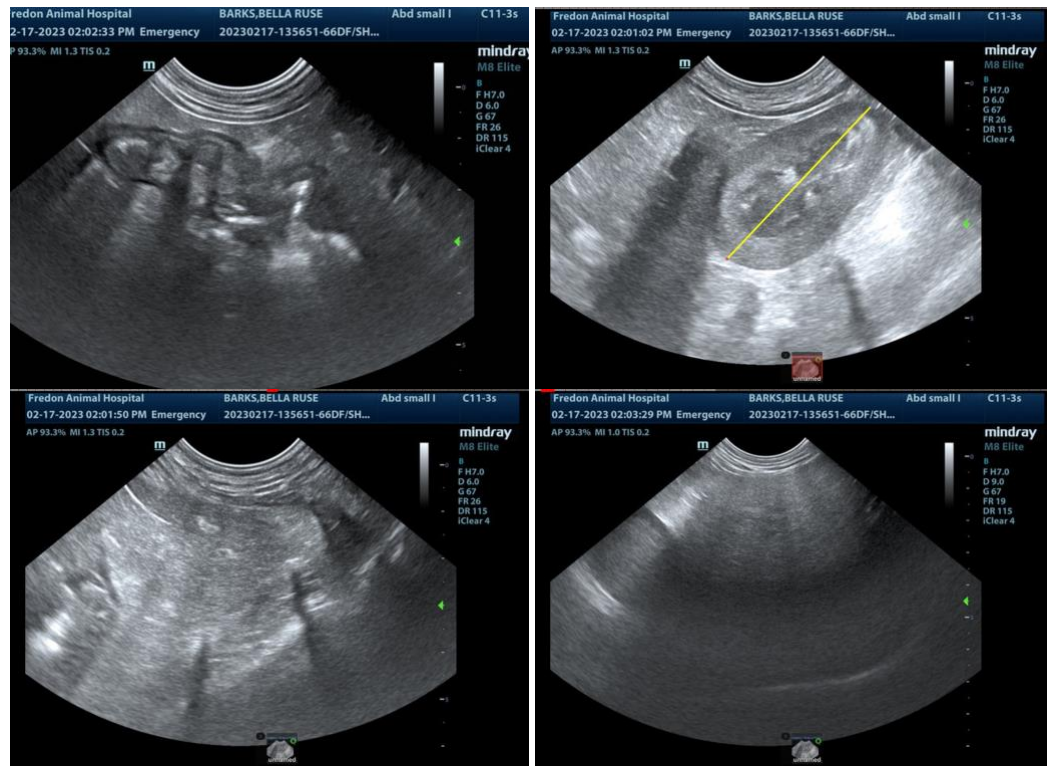
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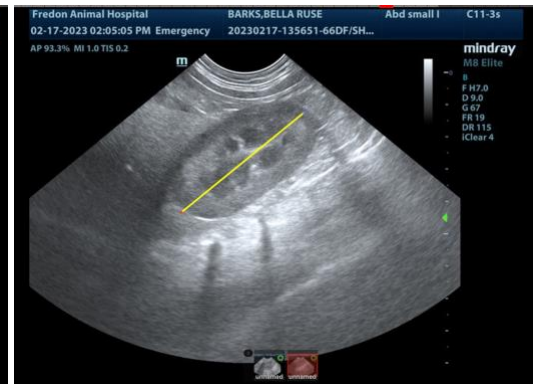
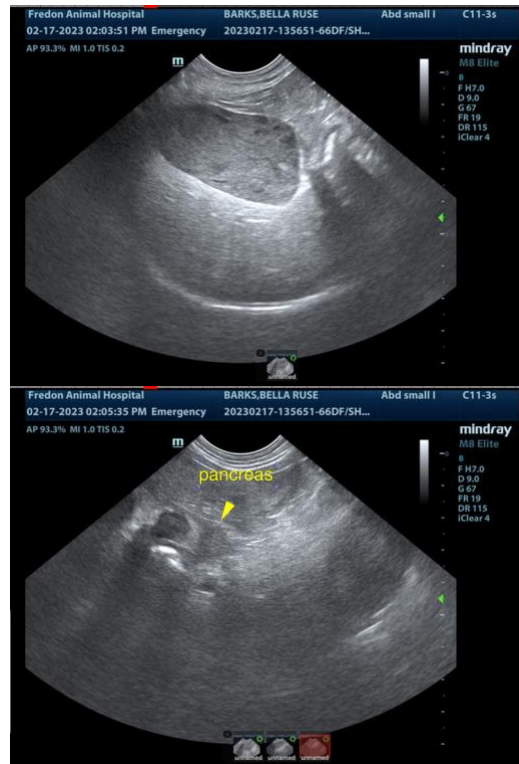
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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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Dr. Linda Grau

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