



PATIENT PRESENTING CLINICAL SIGNS

PATIENT
Barney Klinger
Presented at our hospital; can't seem to keep food down, since beginning of week, on and off since Christmas though, about 4 piles a day, water makes it worse
SPECIES
Canine
Previous Health Concerns: allergies (itchy skin)
Current Medications: prednisone- 2 weeks ago

BREED
Beagle
Abnormal PE/Chem/CBC/UA Results: Cardiovascular: NR, no murmur or arrhythmia appreciated
Abdominal: Very tense, lip licking on abdominal palpation
Radiographs: hepatomegaly, empty stomach, loss of detail in cranial abdomen caudal to stomach, bunching loops of small intestine; no obvious foreign body or mass
CBC: neu (84.9 H), Lymph (8.7 L)
Chem: Ca (8.5 L), Glu (457 H), ALP 278 H, vaAMY (1858 H), vLIP (>1000 H)
EPOC: Glu (503 H), pCO2 (23.9 L), HCO3 (9.3 L), TCO2 (8.6 L), pH 7.198 L, Na (131 L), Cl (104 L), Lact (3.19 H)

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

SEX

Neutered Male

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 were noted. Ureteral papillae were normal.

AGE

5 Years

The **kidneys** were normal in size and contour; however, a minor hyperechoic ring was noted at the corticomedullary junction. This is 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 7.75 cm. The right kidney measured 8.18 cm.

WEIGHT

23.6 kg

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 2.54 cm x 0.41 cm at the cranial pole and 0.62 cm at the caudal pole. The right adrenal gland measured 0.80 cm at the cranial pole and 0.60 cm at the caudal pole.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

Spleen

The **spleen** presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The capsule was smooth without noticeable expansion or deviation from within the spleen or adjacent pathology. The splenic vasculature demonstrated normal volume without signs of congestion or thrombosis. No sonographic evidence of acute or chronic inflammatory, neoplastic, or infarctual changes were noted.

IMAGING PERFORMED BY

Erin Wicks

HOSPITAL NAME

Shores VEC

Liver

The **liver** was diffusely hyperechoic to the falciform fat with occasional hypoechoic, non-disruptive nodular change. The liver revealed generalized enlargement. The gallbladder was unremarkable. There is no suspicion of neoplasia; however, diffuse disease is present. Bile acid profile would be ideal as well as FNA.

REFERRING VET

Dr. Welti

INVOICE

44012

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.

DATE

1/6/23



PATIENT

Barney Klinger

Pancreas

The **pancreas** revealed minor heterogeneous parenchymal changes, suggestive for pancreatitis. No duct dilation noted.

SPECIES

Canine

ULTRASONOGRAPHIC FINDINGS

- Diabetic hepatopathy
- Diabetic nephropathy
- Mild pancreatitis pattern

BREED

Beagle

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Medical management for pancreatitis and diabetic state indicated. No evidence of foreign bodies or neoplasia.

SEX

Neutered Male

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

AGE

5 Years

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

WEIGHT

23.6 kg

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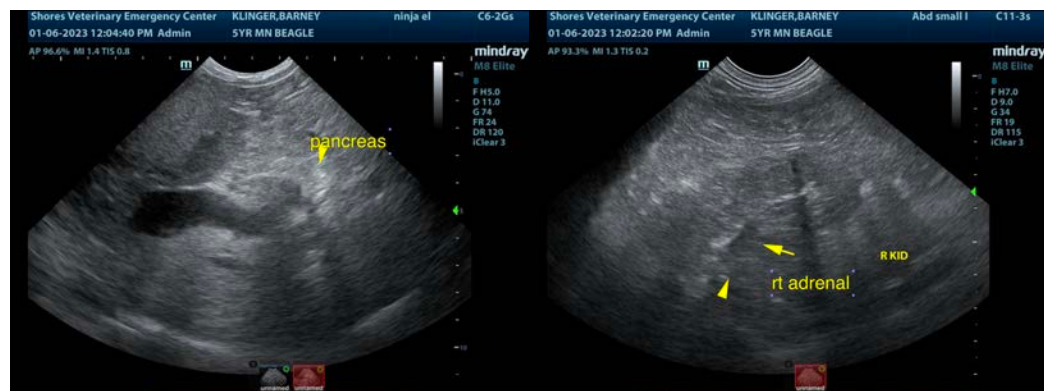
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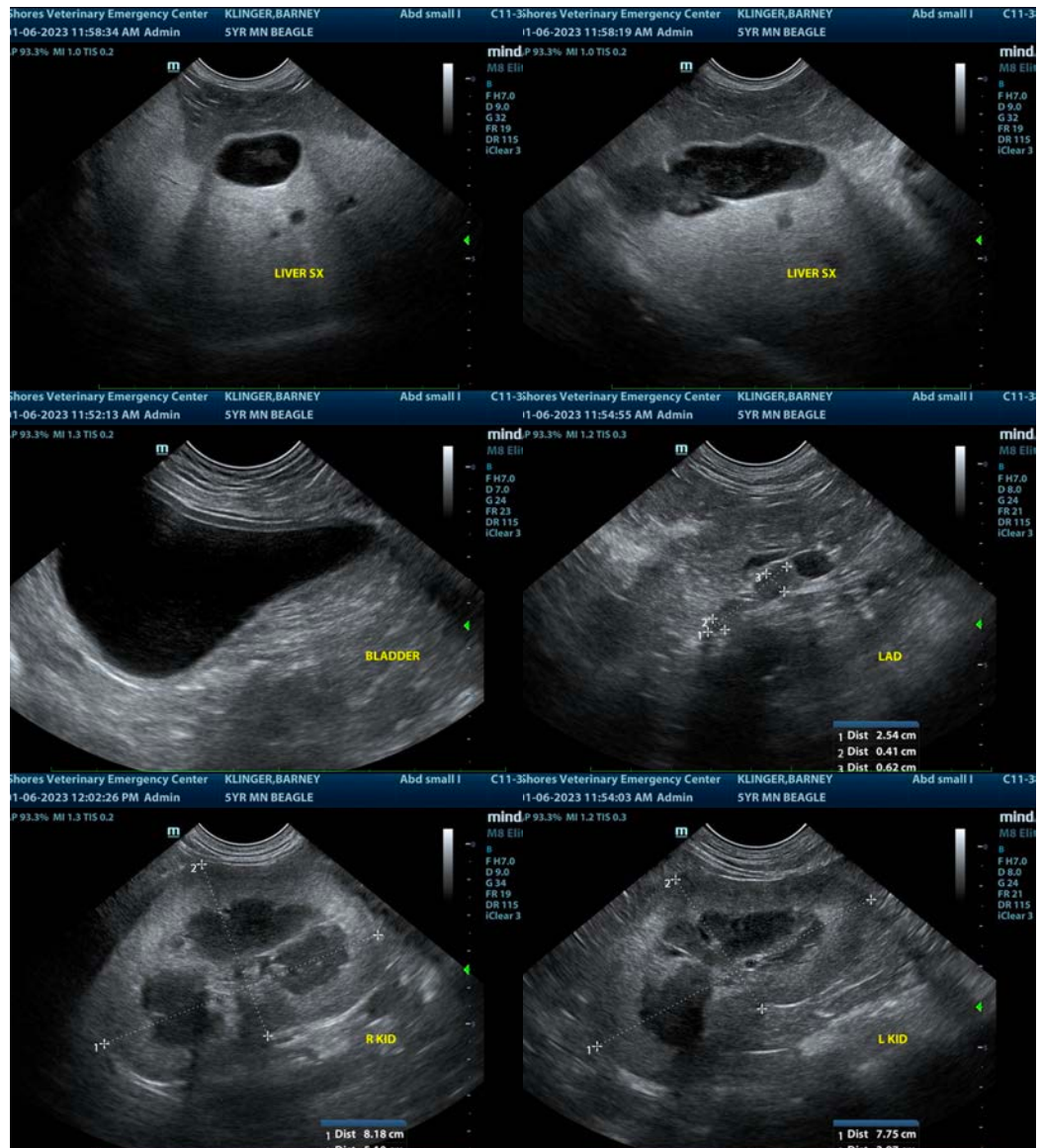
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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

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