



PATIENT

Marley Smith

PRESENTING CLINICAL SIGNS

History: hx of DKA and elevated liver values
Abnormal PE/Chem/CBC/UA Results: glucose >700 BUN 35 ALKP 519 ALP >2000 urinalysis WNL

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

BREED

Pit Mix

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 was noted. Ureteral papillae were normal.

SEX

Spayed female

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 7.06 cm. The right kidney measured 7.0 cm.

AGE

8 years

WEIGHT

32.2 lbs

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 3.8 x 0.74 cm at the cranial pole and 0.75 cm at the caudal pole. The right adrenal gland measured 0.8 cm at the cranial pole and 0.6 cm at the caudal pole.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Hayley Heindel, CVT

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 was noted.

HOSPITAL NAME

Mason Dixon AEH

Liver

The **liver** was diffusely hyperechoic to the falciform fat with attenuating sound beam. The architecture was slightly coarse. The gallbladder and common bile duct were unremarkable. This is most consistent with diabetic hepatopathy; however, it may have early dysfunction issues.

REFERRING VET

Dr. Longbottom

INVOICE

42808

Gastrointestinal

DATE

11/30/22

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



PATIENT	demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.
Marley Smith	
SPECIES	<i>Pancreas</i>
Canine	The base and limbs of the pancreas were observed to be largely isoechoic to surrounding omental fat. Pancreatic duct and capsular contour were acceptably normal and parenchyma respected normal curvilinear patterns. No overt evidence of active inflammatory or neoplastic disease was noted.
BREED	
Pit Mix	
SEX	ULTRASONOGRAPHIC FINDINGS
Spayed female	Diabetic hepatopathy. Possible suppurative hepatitis. Diabetic nephropathy.
AGE	<u>INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS</u>
8 years	Bile acid profile and FNA of the liver is indicated. There was no evidence of neoplasia.
WEIGHT	Potential Causes of Diabetic Dysregulation
32.2 lbs	This is a suggestive checkoff list when faced with an unregulated diabetic patient:
INTERPRETED BY	UTI
Eric Lindquist, DMV DABVP, Cert. IVUSS	Dietary indiscretion/intolerance
IMAGING PERFORMED BY	Pancreatitis
Hayley Heindel, CVT	Hyperthyroidism/hypothyroidism
HOSPITAL NAME	Exogenous steroids (including topical eye meds)
Mason Dixon AEH	Cushing's
REFERRING VET	Acromegaly
Dr. Longbottom	Owner compliance
INVOICE	Insulin quality issues
42808	Antibodies to insulin
DATE	Underlying Neoplasia
11/30/22	Diffuse liver disease



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SPECIES

Canine

BREED

Pit Mix

SEX

Spayed female

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INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Hayley Heindel, CVT

HOSPITAL NAME

Mason Dixon AEH

REFERRING VET

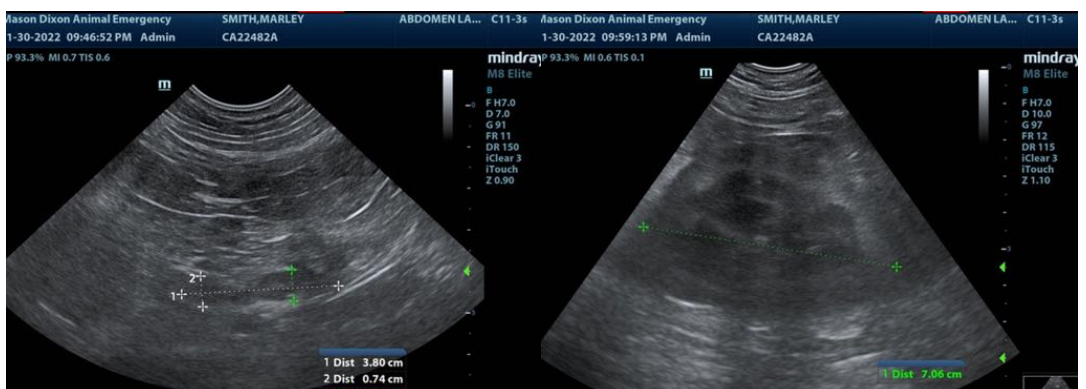
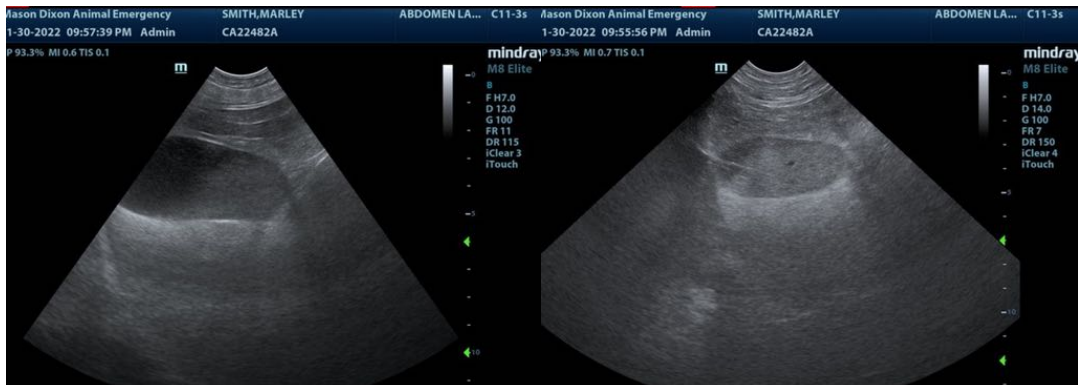
Dr. Longbottom

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PATIENT

Marley Smith

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.

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

Pit Mix

Eric Lindquist, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com
info@SonoPath.com

SEX

Spayed female

AGE

8 years

WEIGHT

32.2 lbs

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Eric Lindquist, DMV
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**IMAGING
PERFORMED BY**

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