



PATIENT	PRESENTING CLINICAL SIGNS
Chewy Okutani-Hunter	Recently diagnosed diabetic treated with Vetsulin, unregulated, admitted to hospital this morning in diabetic ketoacidosis
SPECIES	ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN
Canine	Urinary System
BREED	The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra exhibited normal thickness and tone. Anechoic urine was present in the lumen with mild nondependent particulate sediment. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes were noted.
Pomeranian	
SEX	Normal size and margination were 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 4.6 cm in length. The right kidney measured 5.0 cm in length.
MN	
AGE	The area of the aortic trifurcation was free of pathology.
7yr	The area of the residual prostate was free of pathology measuring 0.60 cm.
WEIGHT	Adrenal Glands
4.84kg	The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.45 cm width at the caudal pole and 0.39 cm width at the cranial pole. The right adrenal gland was not visualized owing to increased peri adrenal omental artefact.
INTERPRETED BY	Spleen
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	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.
IMAGING PERFORMED BY	Liver
Dr. Callihan	The liver presented moderately increased in size. The parenchyma of the liver was subjectively increased in echogenicity compared to the spleen and renal cortices. The echotexture of the liver parenchyma was uniform with a mild coarse echotexture. The capsule of the liver was symmetrical in margination. The hepatic and portal vasculature were normal in appearance without signs of congestion.
HOSPITAL NAME	
Animal Emergency Care	
REFERRING VET	The gallbladder was non-distended in size with primarily anechoic luminal content. The cystic and common bile ducts were normal.
Dr. Baker	Gastrointestinal
INVOICE	The stomach presented intact yet mildly prominent wall layering with a normal wall layer ratio. The lumen of the stomach was empty with no signs of ileus, obstruction or foreign material.
11344ag	The intestinal walls demonstrated intact wall layering and maintained 1:3 muscularis / mucosa ratio. The mucosa exhibited mild decreased echogenicity with occasional mucosal speckling. A segmental to diffuse ileus pattern consisting of mild fluid accumulation in the intestinal lumen was present without
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PATIENT

Chewy Okutani-Hunter

obstruction or foreign material. The duodenum exhibited intact yet prominent wall layering with duodenal corrugation.

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

SPECIES

Canine

Pancreas

Diffuse enlargement of the pancreas with ill-defined, hypoechoic to heterogeneous parenchyma and asymmetrical contour was present. Generalized cranial abdominal hyperechoic mesentery was noted around the enlarged to hypoechoic pancreas, indicative of reactive change, adhesions, focal peritonitis, or saponification. Mild localized free fluid was present around the abnormal pancreas.

BREED

Pomeranian

Free Abdomen

Scant pockets of peritoneal effusion was present.

SEX

MN

ULTRASONOGRAPHIC FINDINGS

AGE

7yr

- Hepatomegaly with mild parenchyma hyperechogenicity - metabolic / vacuolar/reactive (diabetic) hepatopathy likely, lipidosis or inflammatory hepatopathy possible, neoplasia unlikely
- Active pancreatitis with regional peritonitis
- Generalized gastroenteritis pattern with moderate duodenitis
- Urinary bladder sediment

WEIGHT

4.84kg

- Note: The gallbladder, bilateral kidneys, and left adrenal gland were normal. Right adrenal was not visualized owing to periarenal artifact secondary to omental inflammation.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

INTERPRETED BY

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

Urine C/S is recommended to assess for UTI. Aggressive therapy for DKA and pancreatitis with hepatic and gastrointestinal support is recommended. Sonographic monitoring of the pancreas with initial recheck in 3-5 days pending response to therapy would be ideal. Overall guarded prognosis.

IMAGING PERFORMED BY

Dr. Callihan

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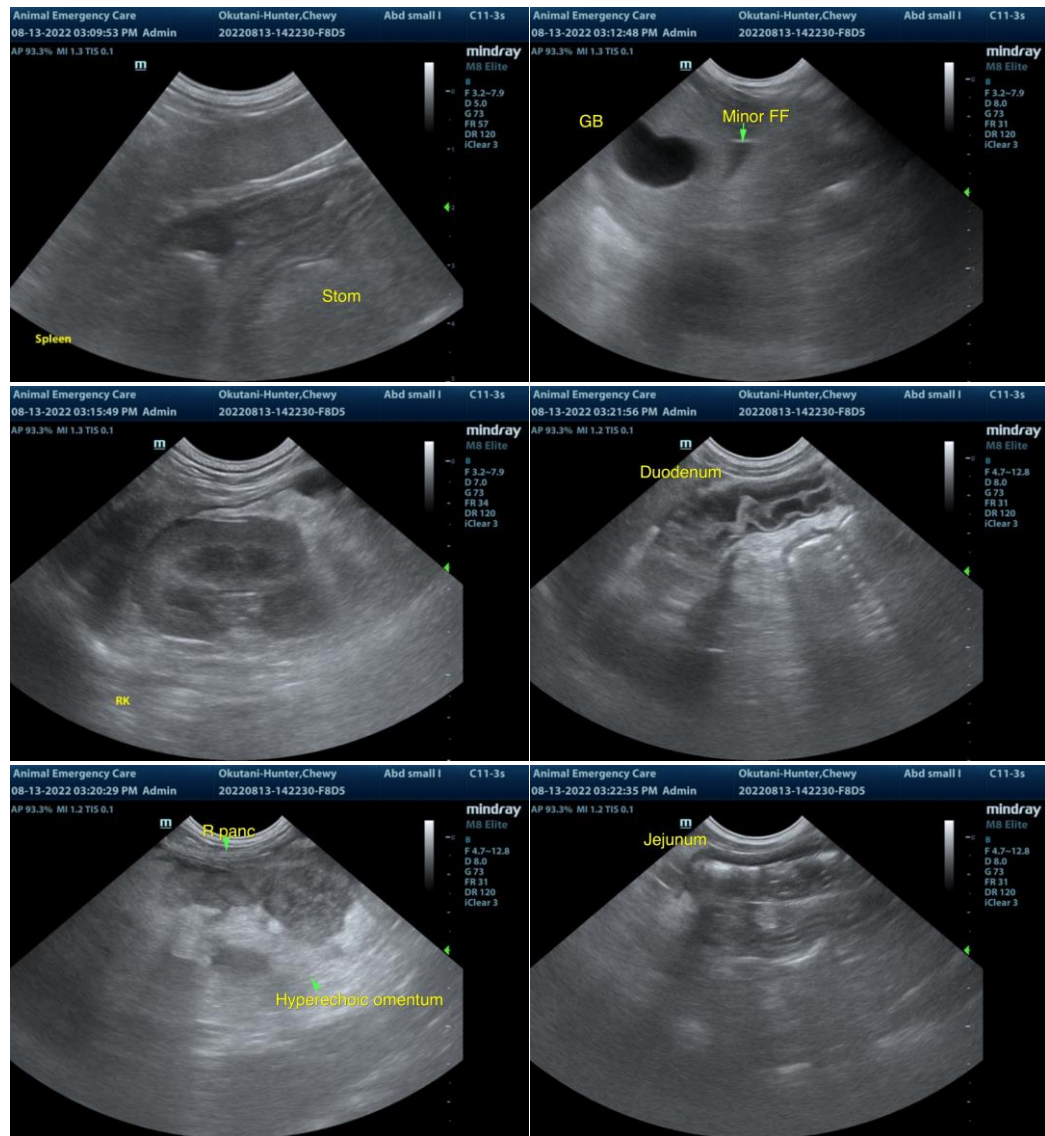
Dr. Baker

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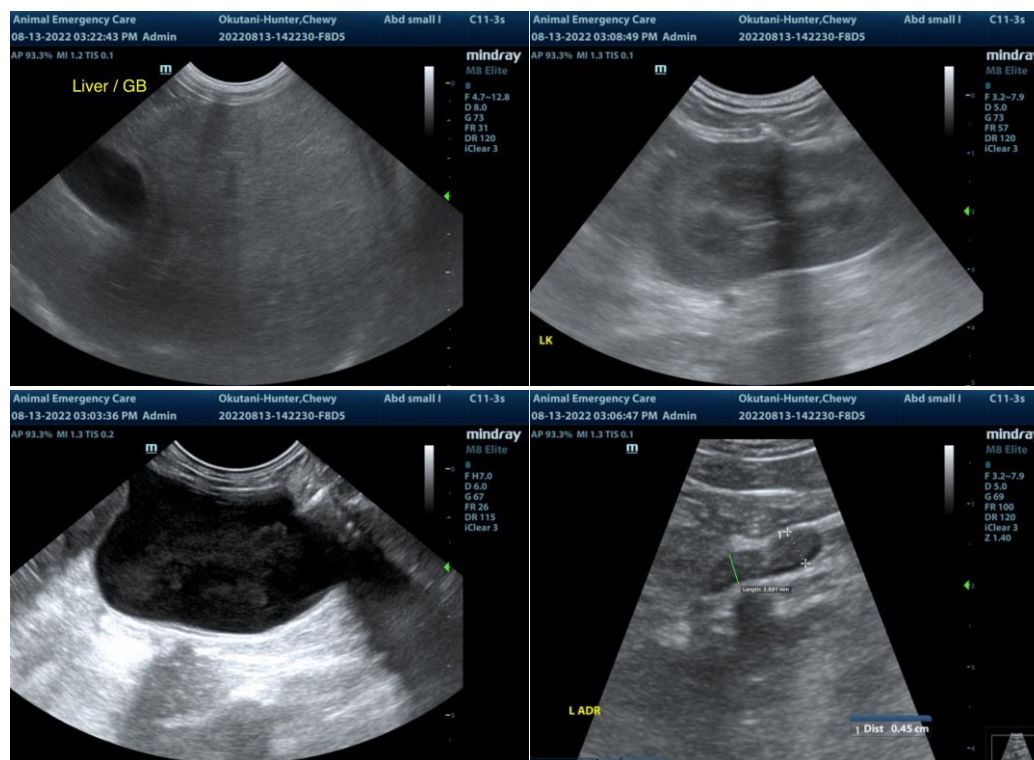
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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

info@SonoPath.com