



PATIENT

Blake Mack

SPECIES

Canine

BREED

Lab

SEX

MN

AGE

11 years

WEIGHT

78 lbs.

PRESENTING CLINICAL SIGNS

Urinary and BM accidents in the house esp at night

Abnormal PE/Chem/CBC/UA Results: Albumin:4.8, Glob: 1.7, ALT: 171, Alk: 140 USG: 1.022,

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder presented mild uniformly thickened urinary bladder wall isoechoic to the adjacent normal urinary bladder wall. The luminal margin of the thickened urinary bladder wall was mildly asymmetrical in contour. Ventroapical urinary bladder wall thickness measured 0.59 cm width. Mineralization or echogenic foci within the thickened areas of urinary bladder wall was not present. The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra exhibited normal tone to a depth of 3.0 cm. Primarily anechoic urine was present in the lumen with mild dependent to adhered ventroapical luminal mineral. The ureteral papillae were normal. The ureters were not visible which is normal.

The residual prostate was symmetrically normal in size with uniform parenchyma and slight coarse echotexture.

The area of the aortic trifurcation was free of pathology.

INTERPRETED BY

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

Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio was maintained. The medulla and cortices were uniform in texture with some increased echogenicity and moderate loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 6.9 cm in length. The right kidney measured 7.4 cm in length.

IMAGING PERFORMED BY

Dr. A Rodriguez

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.66 cm width at the caudal pole and 0.49 cm width at the cranial pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.82 cm width at the caudal pole and 1.0 cm width at the cranial pole.

HOSPITAL NAME

Foxfield VS

Spleen

The spleen exhibited normal subjective size with maintained symmetrical capsule contour with generalized splenic parenchyma heterogeneity. No splenic masses or nodules were noted.

REFERRING VET

Dr. A Rodriguez

INVOICE

13812

Liver/ Gallbladder

The liver was normal in size. A solitary, uniform isoechoic intraparenchymal nodule was noted caudal to the gallbladder, measuring 3.6 cm in diameter. The gallbladder was non distended in size with moderate, echogenic, nonmineralized biliary sludge. The gallbladder was otherwise normal. The cystic duct and common bile ducts were normal without evidence of dilation.

DATE

5/6/22



PATIENT

Gastrointestinal

Blake Mack

The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach contained moderate, nonshadowing ingesta most consistent with post prandial presentation without signs of ileus, obstruction or foreign material.

SPECIES

Canine

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.

BREED

Lab

The visible colon was sonographically normal.

SEX

Pancreas

MN

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 were evident.

AGE

11 years

Free Abdomen

WEIGHT

78 lbs.

A solitary mildly prominent hypoechoic splenic lymph node was noted medial to the splenic hilus, measuring 1.3 cm in diameter. A small pocket of scant nonspecific peri intestinal free fluid was present in the mid abdomen. No evidence of additional omental lymphadenopathy was noted.

INTERPRETED BY

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

ULTRASONOGRAPHIC FINDINGS

- Cystitis pattern with mild to moderate dependent to adhered mineral
- Moderate chronic renal changes
- Benign hepatopathy with probable intraparenchymal benign nodule - suspect hyperplasia or small hepatoma
- Moderate gallbladder debris (non-mucocele)
- Nonspecific splenic parenchyma heterogeneity with focal nonspecific mild splenic lymphadenopathy
- Overtly normal gastrointestinal tract / colon with gastric ingesta - probable post prandial presentation
- Focal scant peri intestinal free fluid

IMAGING PERFORMED BY

Dr. A Rodriguez

HOSPITAL NAME

Foxfield VS

REFERRING VET

Dr. A Rodriguez

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

INVOICE

Full urinary workup including urine culture and sensitivity and baseline UPC are recommended.

13812

DATE

5/6/22

The overall appearance of the spleen is likely consistent with age-related or patient variant, hematopoiesis, mild hyperplasia, or similar benign etiology. Neoplastic criteria is thought unlikely, yet given the presence of the focal splenic lymph node, ultrasound-guided FNA of the spleen, assuming normal clotting status and using a 25-gauge needle, could be considered for screening cytology primarily to ensure only benign changes are present.

Hepatosupportive medications including Denamarin and Ursodiol may prove beneficial.



PATIENT

Blake Mack

SPECIES

Canine

BREED

Lab

SEX

MN

AGE

11 years

WEIGHT

78 lbs.

INTERPRETED BY

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

IMAGING PERFORMED BY

Dr. A Rodriguez

HOSPITAL NAME

Foxfield VS

REFERRING VET

Dr. A Rodriguez

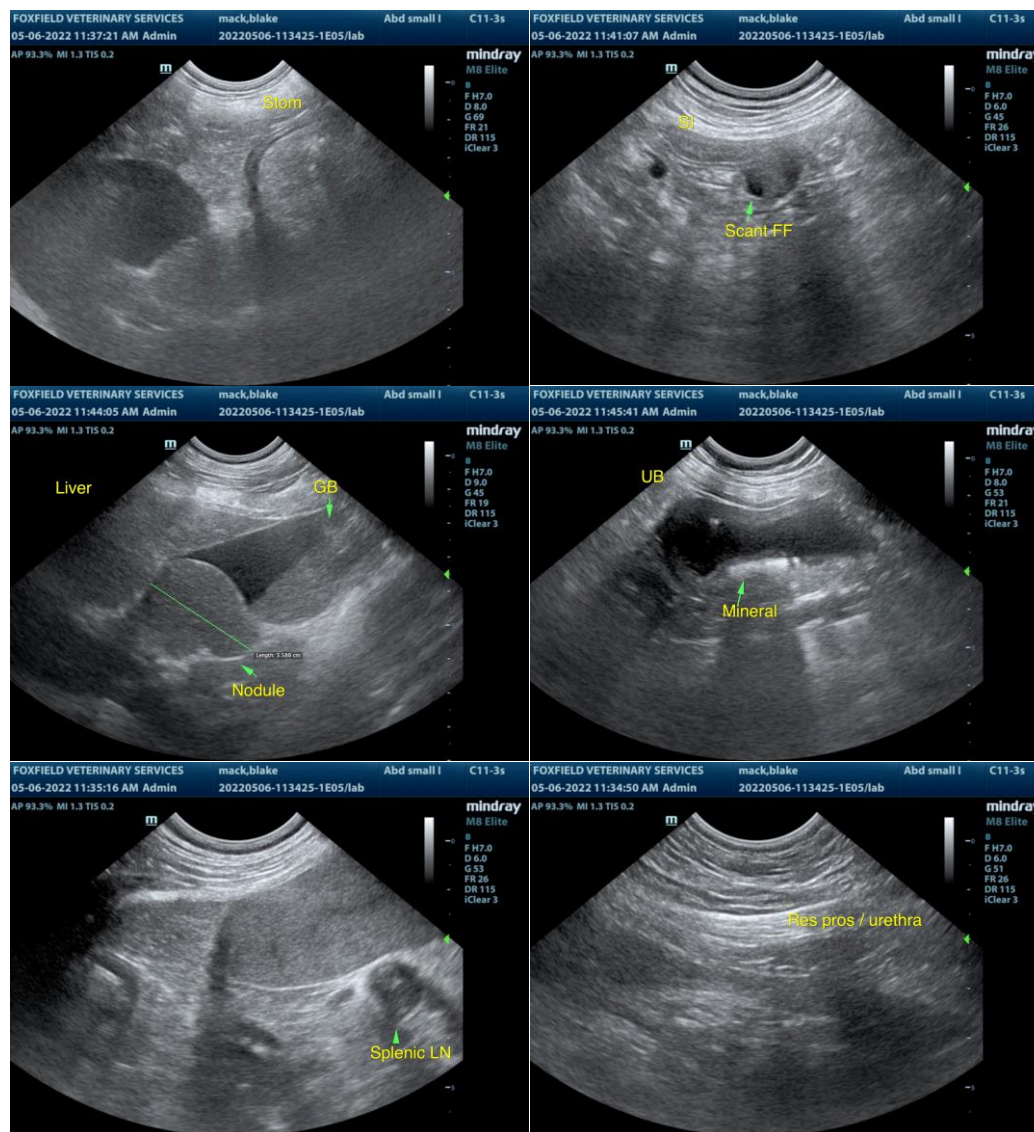
INVOICE

13812

DATE

5/6/22

If the patient is having formed stool, yet inappropriate defecation, behavioral or cognitive contribution to the abnormal urinary and defecation accidents could be considered. If evidence of soft stool or diarrhea, further assessment may include a GI panel to include PLI/TLI/Cobalamin/Folate in addition to urinary workup.





PATIENT

Blake Mack

SPECIES

Canine

BREED

Lab

SEX

MN

AGE

11 years

WEIGHT

78 lbs.

INTERPRETED BY

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

IMAGING PERFORMED BY

Dr. A Rodriguez

HOSPITAL NAME

Foxfield VS

REFERRING VET

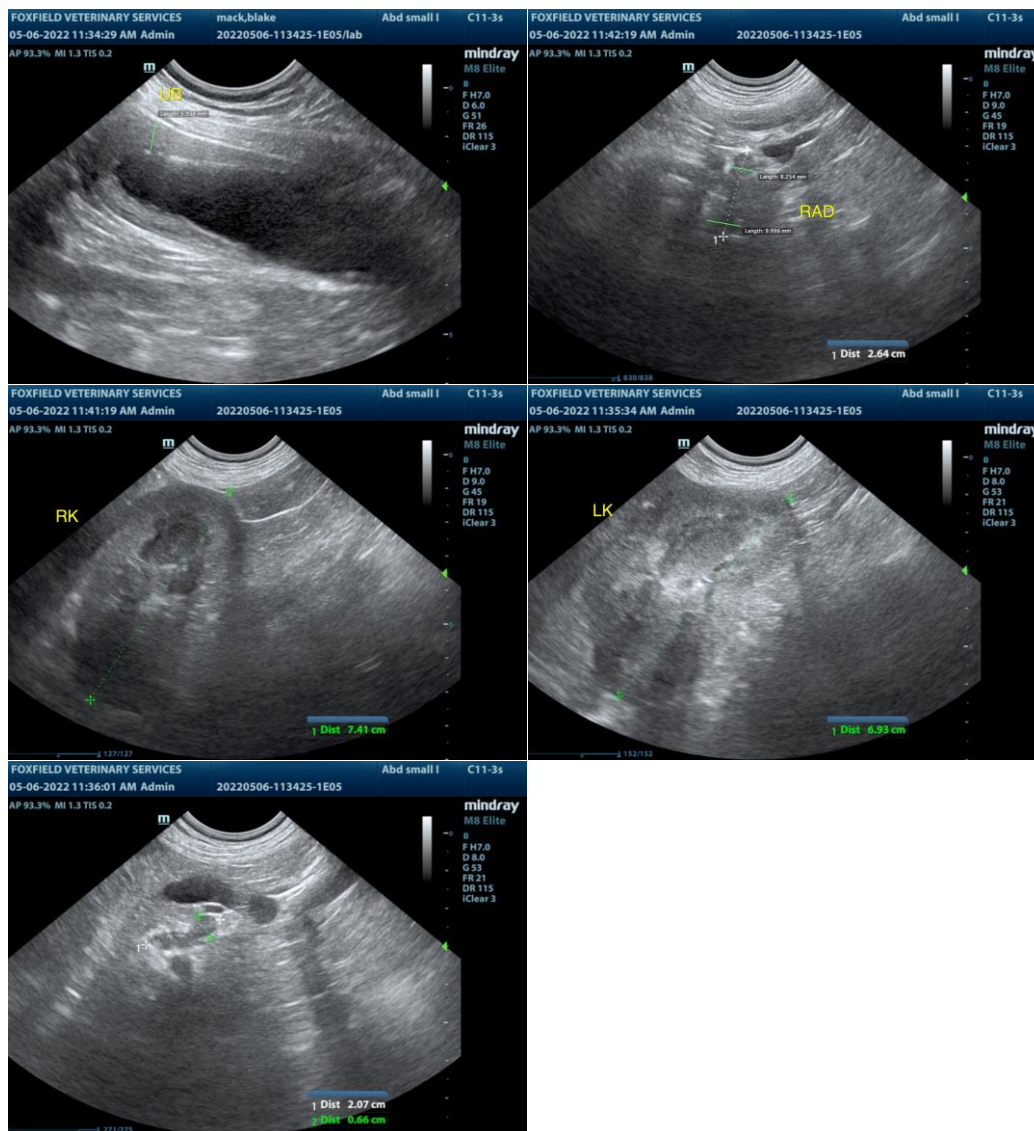
Dr. A Rodriguez

INVOICE

13812

DATE

5/6/22



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