



PATIENT

Kiddo Emerick

SPECIES

Canine

BREED

Pomeranian

SEX

Neutered male

AGE

11 years

WEIGHT

20 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Brandon Holmes

HOSPITAL NAME

West Newton AC

REFERRING VET

Dr. Holmes

INVOICE

45012

DATE

6/27/23

PRESENTING CLINICAL SIGNS

History: Urolithiasis, previously elevated ALP and BNP, and recent vomiting/diarrhea
Abnormal PE/Chem/CBC/UA Results: Calcium oxalate dihydrate crystals in urine (4+), ALP of 175 despite 3+ hemolysis index, and BNP of 1300.

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

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 was noted. Ureteral papillae were normal.

The residual prostate measured 1.0 cm.

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some age-related loss of curvilinear patterns regarding the capsule and C/M junction. The cortices presented largely uniform texture with some increased echogenicity expected for his age patient. Medullary structure differed distinctly from that of the cortex and no evidence of pelvic dilation was present. Slight, hyperechoic medullary rim sign was noted in the left kidney. Occasional cortical cyst was noted. The left kidney measured 4.3 cm. The right kidney measured 4.9 cm.

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 0.58 cm at the caudal pole and 0.48 cm at the cranial pole. The right adrenal gland measured 0.8 cm at the cranial pole and 0.65 cm at the caudal pole.

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.

Liver

The **liver** was uniformly swollen with minor, excessive gallbladder debris and over distension with dependent and suspended bile without evidence of overt mucocele formation. However, excessive sludge was present. The liver presented coarse architecture with mildly increased portal markings and subtle, mixed echogenic changes. This is consistent with vacuolar hepatopathy and some level of remodeling and history of inflammatory component. There was no overt suspicion of neoplasia.



PATIENT

Kiddo Emerick

SPECIES

Canine

BREED

Pomeranian

SEX

Neutered male

AGE

11 years

WEIGHT

20 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Brandon Holmes

HOSPITAL NAME

West Newton AC

REFERRING VET

Dr. Holmes

INVOICE

45012

DATE

6/27/23

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.

Pancreas

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.

ULTRASONOGRAPHIC FINDINGS

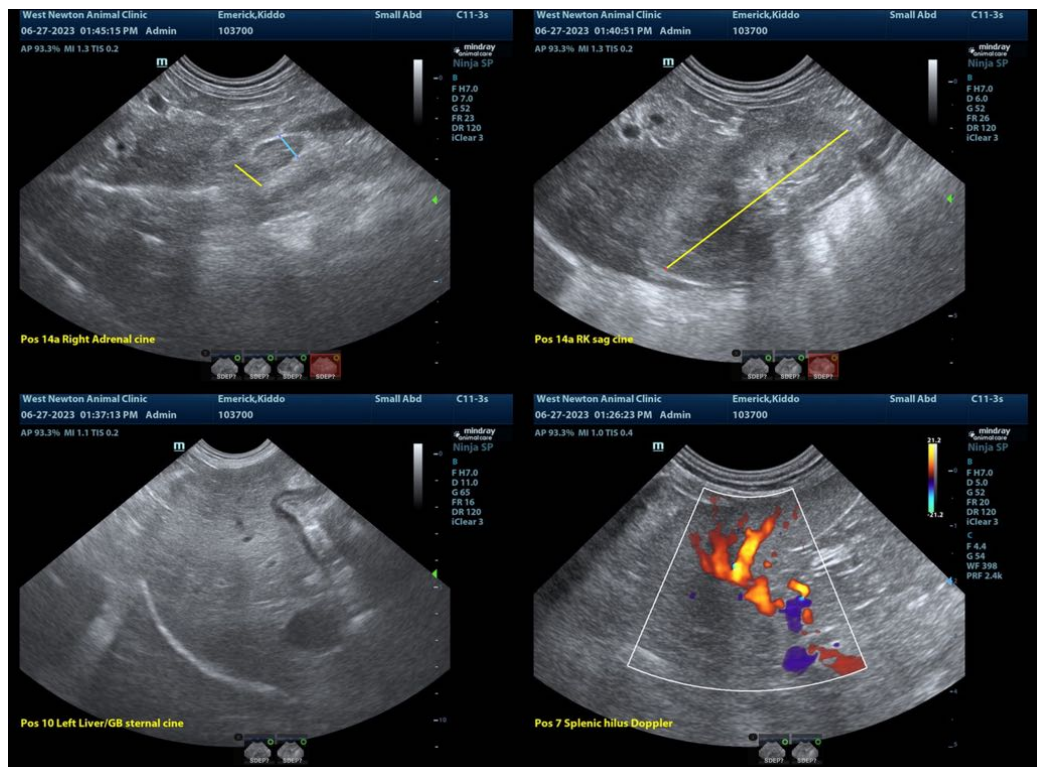
Structurally benign abdomen.

Age related renal and hepatic changes.

Structurally unremarkable GI tract.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

There was no evidence of urolithiasis. Supportive GI care should prove effective. Diet change may be necessary if clinical signs persist.





PATIENT

Kiddo Emerick

SPECIES

Canine

BREED

Pomeranian

SEX

Neutered male

AGE

11 years

WEIGHT

20 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Brandon Holmes

HOSPITAL NAME

West Newton AC

REFERRING VET

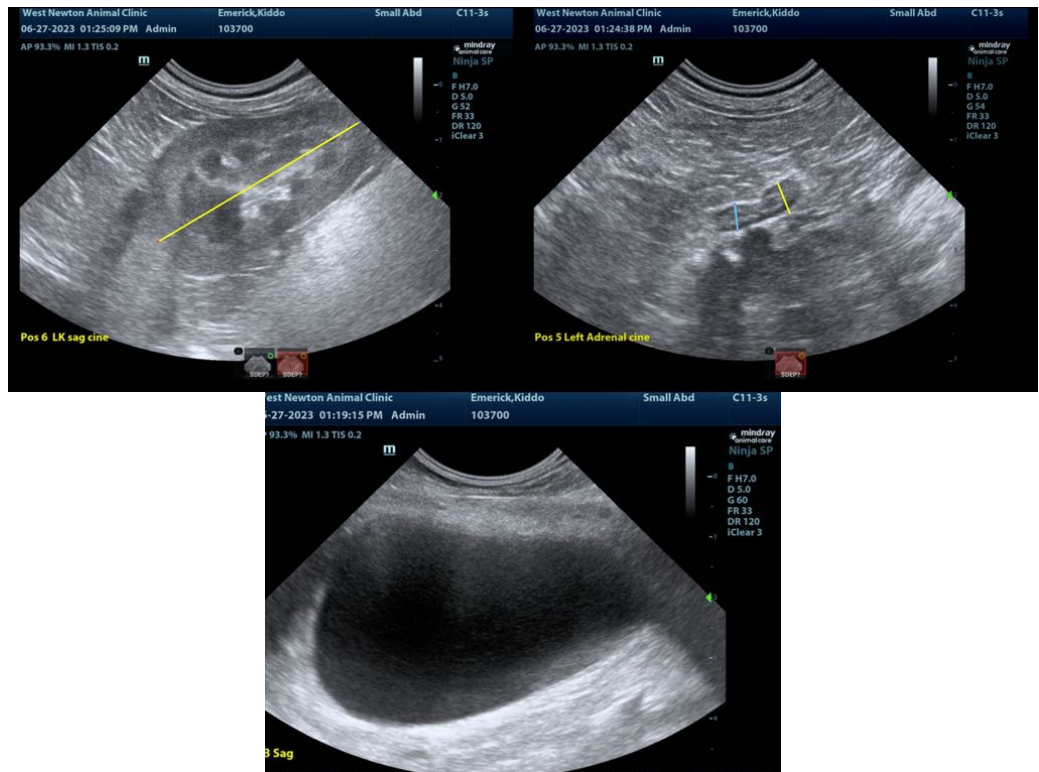
Dr. Holmes

INVOICE

45012

DATE

6/27/23



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
info@SonoPath.com