



PATIENT

Penny Page

SPECIES

Canine

BREED

Pembroke Corgi

SEX

FS

AGE

10 years

WEIGHT

30.6 lbs.

INTERPRETED BY

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

IMAGING PERFORMED BY

Sara Hansen

HOSPITAL NAME

Alpine AH

REFERRING VET

Dr. Clark

INVOICE

15674

DATE

12/20/22

PRESENTING CLINICAL SIGNS

Last exam note from 12/16/22: The blood work results were emailed to the Os. Discussed the 3x elevation of the ALT, ALP, GGT and 6x elevation of the AST. The bilirubin is also very elevated. Possible cancer. The pancreas may be involved. P has been on Denamarin for about a year. Prognosis is Poor.

In the mean time we could add Cerenia 24 mg (8 tabs) G2T PO SID, and Gabapentin 100 mg (30) G1C PO BID to the meds along with Denamarin 225 mg (30) G1T PO SID 1 hr before or 2 hrs after a meal. Rec. O switch P to EN or i/d diet.

Abnormal PE/Chem/CBC/UA Results: Current Medications denamarin and DES

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2.0 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with no uroliths or sediment. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes was noted.

The visualized uterine remnant exhibited subtle prominent size with minor anechoic luminal fluid, measuring 0.64 cm in diameter.

The area of the aortic trifurcation was free of pathology.

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 mild loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. Pinpoint to focal nonobstructive medullary mineral were noted in both kidneys. Right kidney suspect focal cortical infarcts are noted. The left kidney measured 6.2 cm in length. The right kidney measured 6.9 cm in length.

Adrenal Glands

The left adrenal gland was normal in size. Mild parenchyma heterogeneity and mild capsule asymmetry was present without suspicion for overt neoplasia. The left adrenal gland measured 2.7 cm length x 0.69 cm width in the caudal pole. The right adrenal gland was indistinctly visualized exhibiting minor subjective parenchyma heterogeneity and subtle capsule asymmetry without overt suspicion of neoplasia subjectively measuring 0.73 cm width in the caudal pole.

Spleen

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.



PATIENT

Penny Page

Liver/ Gallbladder

SPECIES

Canine

BREED

Pembroke Corgi

The liver exhibited moderate generalized enlargement with the ventrocaudal liver extending caudally past the level of the gastric axis. Areas of mild hepatic capsule asymmetry were noted with generalized nonhomogeneous to mildly mixed echogenic parenchyma exhibiting discrete non-disruptive parenchyma nodular changes. No overt evidence of definitive hepatic mass was noted. The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal.

SEX

FS

Gastrointestinal

The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach was empty with no signs of ileus, obstruction, or foreign material.

AGE

10 years

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.

WEIGHT

30.6 lbs.

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

Pancreas

INTERPRETED BY

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

The pancreas was normal in size and contour with isoechoic to heterogeneous parenchyma compared to adjacent omentum, likely consistent with age-related pancreatic changes. No signs of active inflammation or neoplasia.

Free Abdomen

No omental masses or evidence of peritoneal free fluid were noted. Suspect mildly prominent uniuform mildly hypoechoic hepatic lymphadenopathy in the area of the portal vein was noted. An example of a probable hepatic lymph node measured 2.5 cm x 1.2 cm.

IMAGING PERFORMED BY

Sara Hansen

ULTRASONOGRAPHIC FINDINGS

HOSPITAL NAME

Alpine AH

Primary Findings

- Enlarged nonhomogeneous to irregular discretely nodular liver
- Suspect associated hepatic lymphadenopathy
- Sonographically unremarkable gallbladder
- Mild chronic renal changes with minor nonobstructive medullary mineral

REFERRING VET

Dr. Clark

INVOICE

15674

Secondary Findings

- Discretely prominent uterine remnant containing minor luminal fluid - suspect incidental

DATE

12/20/22

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The diffuse hepatomegaly and parenchyma changes were nonspecific with considerations including vacuolar hepatopathy, chronic inflammatory / immune-mediated disease, nodular hyperplasia,



PATIENT

Penny Page

SPECIES

Canine

BREED

Pembroke Corgi

SEX

FS

AGE

10 years

WEIGHT

30.6 lbs.

INTERPRETED BY

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

IMAGING PERFORMED BY

Sara Hansen

HOSPITAL NAME

Alpine AH

REFERRING VET

Dr. Clark

INVOICE

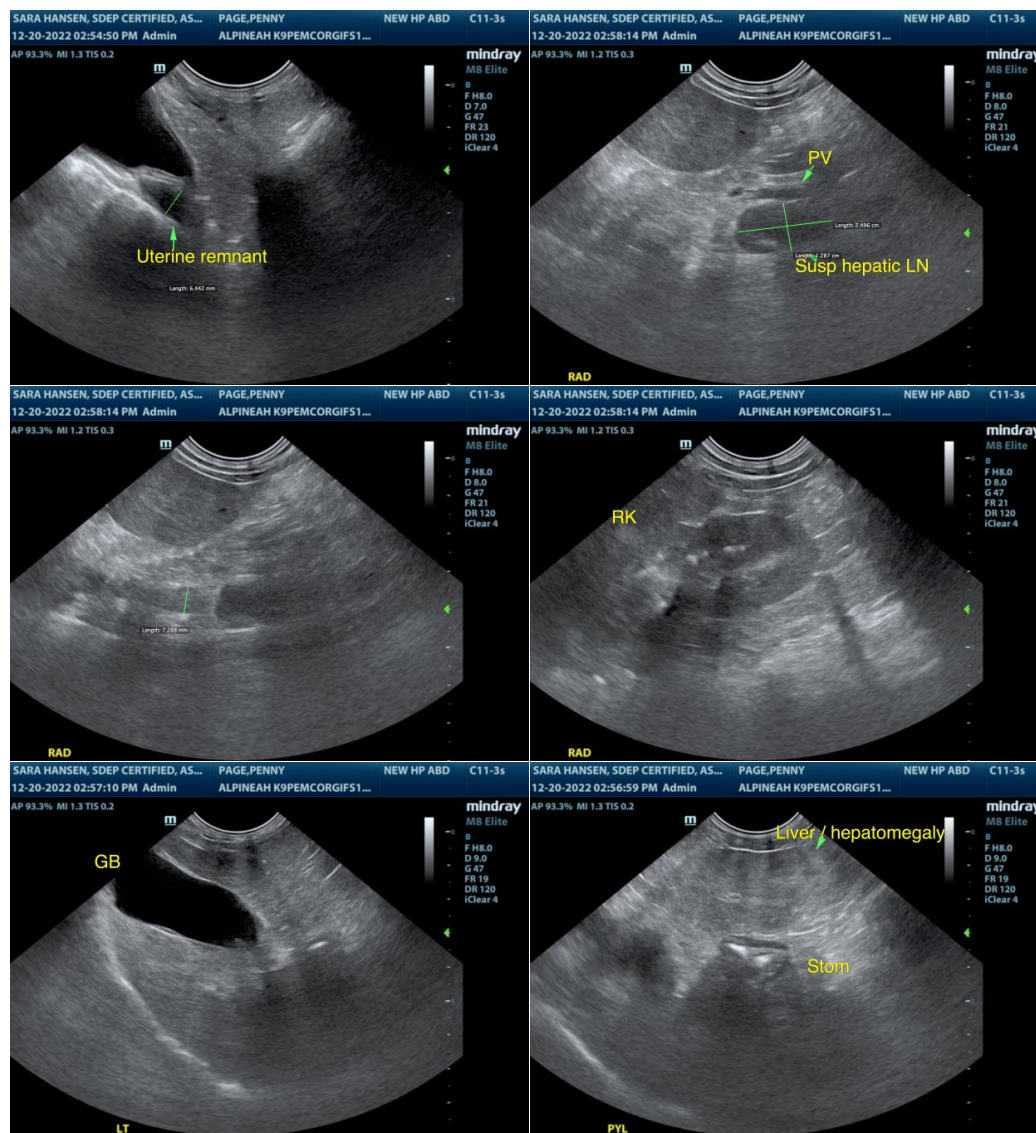
15674

DATE

12/20/22

hematopoiesis, fibrosis, infiltrative neoplasia, or other hepatopathy. No overt evidence of post-hepatic obstructive criteria or sonographically significant pancreatitis.

Assuming normal clotting status, hepatic FNA cytology using a 25-gauge needle, is warranted for potential further assessment. Spec cPL could be considered to assess for low-grade or chronic pancreatitis as a contributing factor if gastrointestinal signs are present. Empirically, continued hepato-gastrointestinal support would be reasonable.





PATIENT

Penny Page

SPECIES

Canine

BREED

Pembroke Corgi

SEX

FS

AGE

10 years

WEIGHT

30.6 lbs.

INTERPRETED BY

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

IMAGING PERFORMED BY

Sara Hansen

HOSPITAL NAME

Alpine AH

REFERRING VET

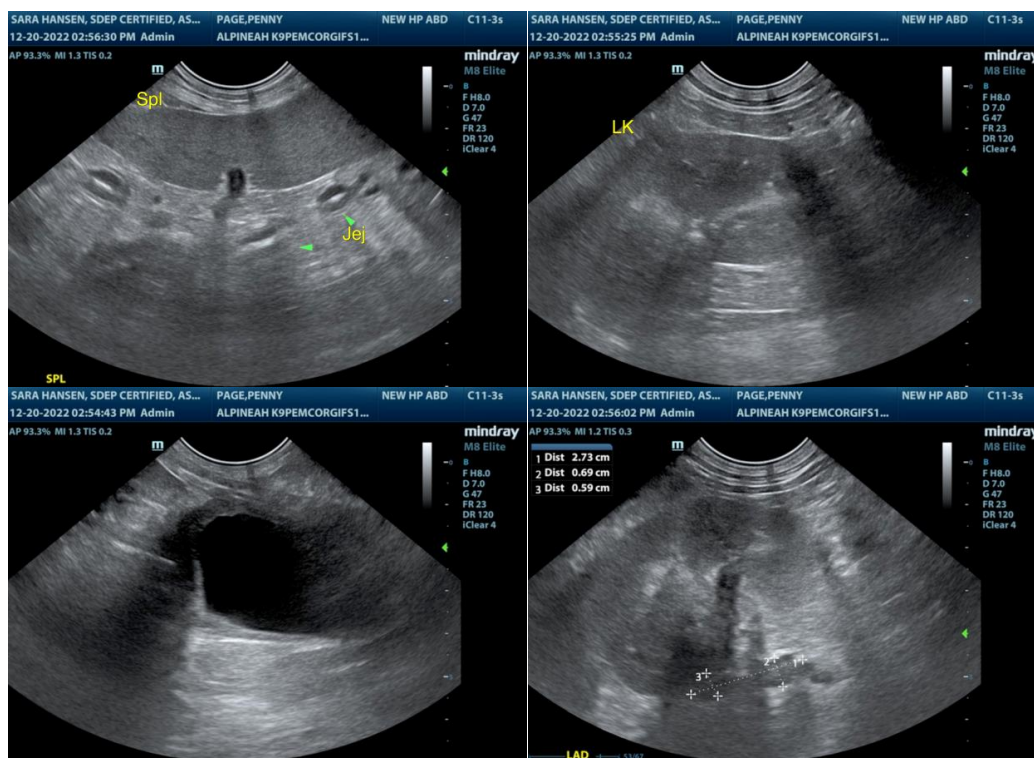
Dr. Clark

INVOICE

15674

DATE

12/20/22



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