



PATIENT PRESENTING CLINICAL SIGNS

Buffy Howett

History: Two week history of diarrhea, several day history of anorexia and vomiting. On CBC / Chem, Hct 34.8%, WBC 27.7k, PMNs 11.8k, Lymphocytes 11.3k, ALT 608, ALP >2000, TBili 1.8. A CBC / Chemistry panel performed in 4/21 was completely normal.

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED

Urinary System

Pug

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 iliac trifurcation was unremarkable.

AGE

13 years

The **kidneys** revealed normal size and structure, corticomedullary definition and ratio for this age. The cortices presented largely uniform texture with normal echogenic relationship to liver and spleen. Medullary structure differed distinctly from the cortex and no evidence of pelvic dilation was present. The capsules were acceptably uniform without significant irregularities. The right kidney measured 4.9 cm. The left kidney measured 4.65 cm.

WEIGHT

19.4 lbs

Adrenal Glands

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

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 0.34 cm at the caudal pole and 0.37 cm at the cranial pole.

IMAGING PERFORMED BY

Dr. Mengine

Spleen

HOSPITAL NAME

Stoney Creek VH

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.

REFERRING VET

Dr. Mengine

Liver

The **liver** was enlarged, irregular and nodular with concurrent inflamed gallbladder with an ill-defined wall. Biliary calculi were noted.

INVOICE

92555

Gastrointestinal

DATE

10/22/21

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

Buffy Howett

demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.

SPECIES

Canine

Pancreas

The **pancreas** revealed heterogenous parenchymal changes.

BREED

Pug

Free Abdomen

Free fluid was noted.

SEX

Spayed Female

ULTRASONOGRAPHIC FINDINGS

Two separate issues are likely playing a role in this patient. Diffuse parenchymal hepatic disease, possible underlying round cell neoplasia along with cholangitis and possible ruptured gallbladder mucocele.

AGE

13 years

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

WEIGHT

19.4 lbs

Ultrasound-guided FNA of the liver is warranted. Aggressive treatment with Enrofloxacin and Metronidazole combination, Ursodiol and fluid support along with GI protectants are indicated. Some level of pancreatitis is likely playing a role. A recheck sonogram is recommended in 48 hours to see if the patient is stabilizing as to whether surgery will be necessary upon the gallbladder. A large amount of inflammation should clear up with medical therapy in order to enhance visibility of the portal hilus more so than is currently present.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Mengine

HOSPITAL NAME

Stoney Creek VH

REFERRING VET

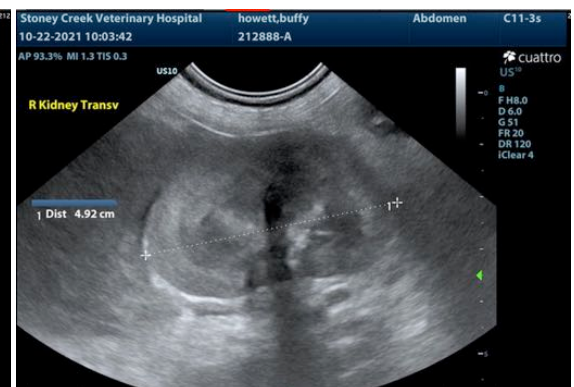
Dr. Mengine

INVOICE

92555

DATE

10/22/21





PATIENT

Buffy Howett

SPECIES

Canine

BREED

Pug

SEX

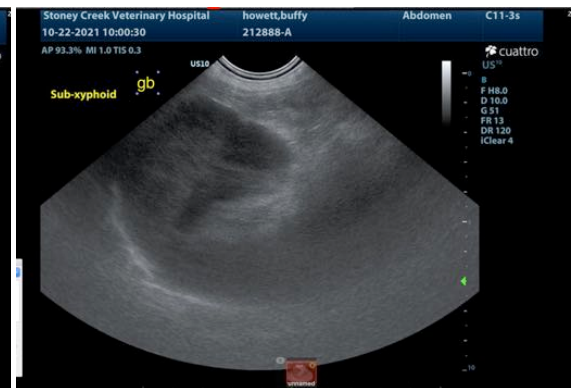
Spayed Female

AGE

13 years

WEIGHT

19.4 lbs



INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Mengine

HOSPITAL NAME

Stoney Creek VH

REFERRING VET

Dr. Mengine

INVOICE

92555

DATE

10/22/21

The information and recommendations provided are based on the images presented by the referring veterinarian. 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