



PATIENT

Bernie Saunders
Fleming

SPECIES

Canine

BREED

Beagle Mix

SEX

Neutered male

AGE

13 years

WEIGHT

6.8 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Ugorji

HOSPITAL NAME

Craig Road AH

REFERRING VET

Dr. Ugorji

INVOICE

42017

DATE

1/10/23

PRESENTING CLINICAL SIGNS

History: P is a 13 year old MN presenting for quality of life exam. Owner has noticed that patient has been losing weight for the past 3-4 weeks, though his appetite has been increased. Owner has also noticed that patient has had increased thirst for the past 3-4 weeks. Since yesterday, patient has not wanted to move at all and has not been eating. 1/9 BCS. Patient experiencing melena while hospitalized. Abnormal PE/Chem/CBC/UA Results: CBC PLT 557 + 165- 500 10⁹/l LYM 0.79 - 1.00-4.80 10⁹/l Chem BUN 83 HIGH 7-25 mg/dL (Ddx- dehydration, CKD, open) GLU 34 LOW 60-110 mg/dL (Ddx- sepsis, insulinoma, artifact) NA⁺ > 170 138-160 mmol/L (Ddx- dehydration, open) TP 5.1 LOW 5.4-8.2 g/dL (Ddx- PLE, PLN, neoplasia, open) GLOB 1.9 LOW 2.3-5.2 g/dL (Ddx- PLE, PLN, neoplasia, open)

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 **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. Moderate mineralization was noted in the kidneys with slight cortical cysts.

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 0.5 cm. The right adrenal gland measured 0.5 cm.

Spleen

The **spleen** in this patient was uniform, yet volume contracted. Hydration status should be assessed.

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 gallbladder wall was thickened. 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

Bernie Saunders
Fleming

SPECIES

Canine

BREED

Beagle Mix

SEX

Neutered male

AGE

13 years

WEIGHT

6.8 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Ugorji

HOSPITAL NAME

Craig Road AH

REFERRING VET

Dr. Ugorji

INVOICE

42017

DATE

1/10/23

Gastrointestinal

The **stomach** revealed mucosal remodeling. The muscularis and submucosal layers were intact. The small intestines and colon revealed increased submucosal echogenicity with hyperperistalsis.

Pancreas

The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Some parenchymal remodeling, however, with mild deviation from curvilinear normalcy was observed. Pancreatic duct and capsular irregularities were present consistent with age related changes. If pain upon imaging (+ Murphy sign) was present or if the patient is focally painful in subxiphoid palpation then low-grade smoldering chronic pancreatitis should be suspected.

Free Abdomen

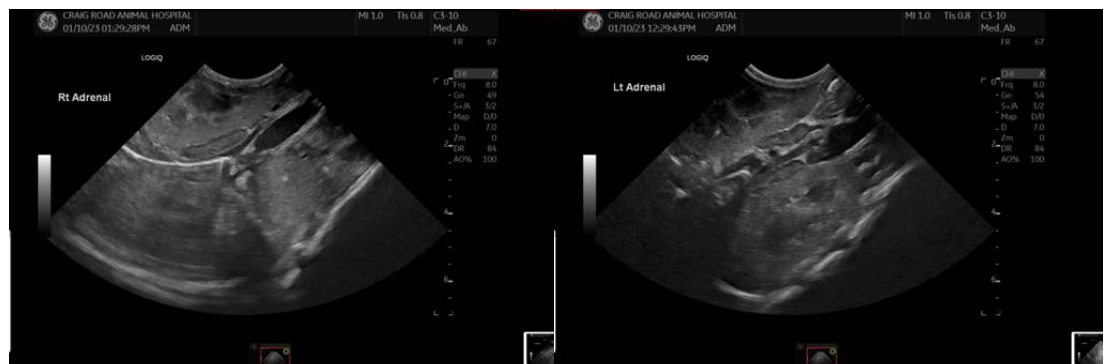
Slight free fluid was noted in the cranial abdomen.

ULTRASONOGRAPHIC FINDINGS

- Chronic GI changes.
- Emerging gallbladder mucocele.
- Volume contracted spleen.
- Age related pancreatic changes.
- Moderate chronic renal changes.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

There was no overt evidence of neoplasia. However, malassimilation of nutrients may be an issue. Ursodiol therapy can be considered. Maldigestion panel is warranted. Maldigestion panel, three view chest radiographs and full CNS examination is recommended to examine for occult disease that could be responsible for the weight loss. Evaluation for competitive eating environments should also be considered. GI protectant protocol can also be considered. If albumin levels are subnormal then protein losing enteropathy may be an issue.





PATIENT

Bernie Saunders
Fleming

SPECIES

Canine

BREED

Beagle Mix

SEX

Neutered male

AGE

13 years

WEIGHT

6.8 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Ugorji

HOSPITAL NAME

Craig Road AH

REFERRING VET

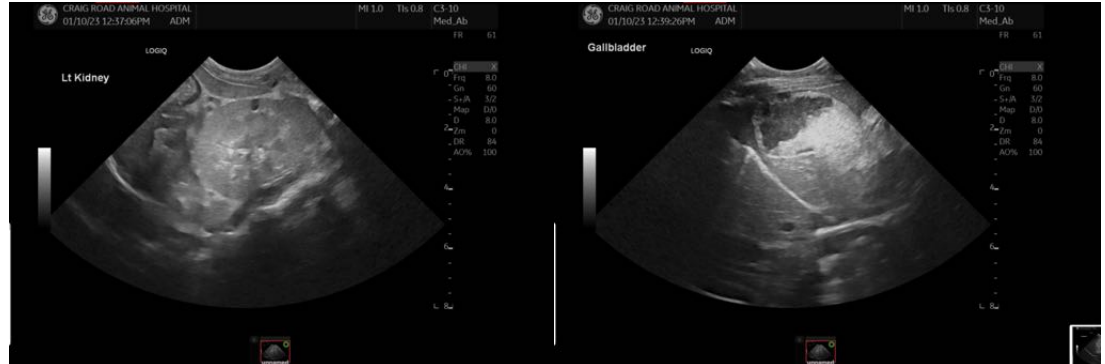
Dr. Ugorji

INVOICE

42017

DATE

1/10/23



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