

**PATIENT**

Gunner Isreal

**SPECIES**

Canine

**BREED**

Collie Mix

**SEX**

Neutered male

**AGE**

11 years

**WEIGHT**

42 months

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Rivera

**HOSPITAL NAME**

DPC VH

**REFERRING VET**

Dr. Rivera

**INVOICE**

76098

**DATE**

7/12/23

**PRESENTING CLINICAL SIGNS**

History: Date: 7/11/2023 Reason for Visit: General check up/diabetes History: Gunner, a neutered Male Collie Mix presents today for a general check up and possible diabetes. P got extremely sick over the weekend. P was very lethargic, vomiting, not eating/drinking. P was brought to ER where they ran diagnostics and ER stated P had an inflamed liver and bronchitis. P had a script written for diabetes medications but ER told O to establish a primary vet before starting meds due to P's inflamed liver. P is doing a lot better, but not 100%. P is still not eating, but started drinking again. P is not as down as before but not completely himself.

Abnormal PE/Chem/CBC/UA Results: CV/Respiratory: Normal heart rate and rhythm, no obvious murmur, pulses strong and synchronous, sl increased bronchovesicular sounds. No crackles or wheezes present. EENT: Clear OD and AU. OS: mild to moderate scleral redness, no discharge or blepharospasm present. No nasal discharge. No cough on tracheal palpation. Oral cavity: Mild to moderate dental tartar Musculoskeletal: BCS = 7/9. Ambulatory x 4 Uro/Perineum: No significant lesions Abd/GI: SI tense, uncomfortable on palpation. No obvious masses or fluid wave palpated Lymph Nodes: No peripheral lymphadenopathy Neurological: Alert and appropriate. No significant abnormalities Skin: Good hair coat. No ectoparasites seen Mentation: QAR Hydration: < 5% dehydration AUS AND LDDS TODAY

**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 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. The capsules were acceptably uniform without significant irregularities. Slight pyelectasia was noted in the left kidney. The left kidney measured 6.7 cm.

**Adrenal Glands**

The left **adrenal gland** was at the upper limits of normal to enlarged and measured 1.5 cm in width and is uniform.

**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.



**PATIENT**

Gunner Isreal

**SPECIES**

Canine

**BREED**

Collie Mix

**SEX**

Neutered male

**AGE**

11 years

**WEIGHT**

42 months

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Rivera

**HOSPITAL NAME**

DPC VH

**REFERRING VET**

Dr. Rivera

**INVOICE**

76098

**DATE**

7/12/23

**Liver**

The **liver** was uniformly swollen. An occasional, hypoechoic nodule was noted and was non-disruptive. The liver presented coarse architecture with mildly increased portal markings and subtle, mixed echogenic changes. Occasional parenchymal cyst was noted. This is consistent with vacuolar hepatopathy and some level of remodeling and history of inflammatory component. There was no overt suspicion of neoplasia. The gallbladder was unremarkable with suspended debris.

**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 **pancreas** revealed mild heterogenous parenchymal changes, primarily in the right limb.

**ULTRASONOGRAPHIC FINDINGS**

Bilateral adrenal hypertrophy, vacuolar hepatopathy, nodular hyperplasia renal pattern.  
Mild pancreatic remodeling.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

I recommend assessment of the urine specific gravity and morphological appearance of this patient to assess for Cushing's as PDH may be an underlying issue. If the urine specific gravity is less than 1.020 and urine cortisol to creatinine ratio is elevated then work-up for PDH is indicated.





**PATIENT**

Gunner Isreal

**SPECIES**

Canine

**BREED**

Collie Mix

**SEX**

Neutered male

**AGE**

11 years

**WEIGHT**

42 months

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Rivera

**HOSPITAL NAME**

DPC VH

**REFERRING VET**

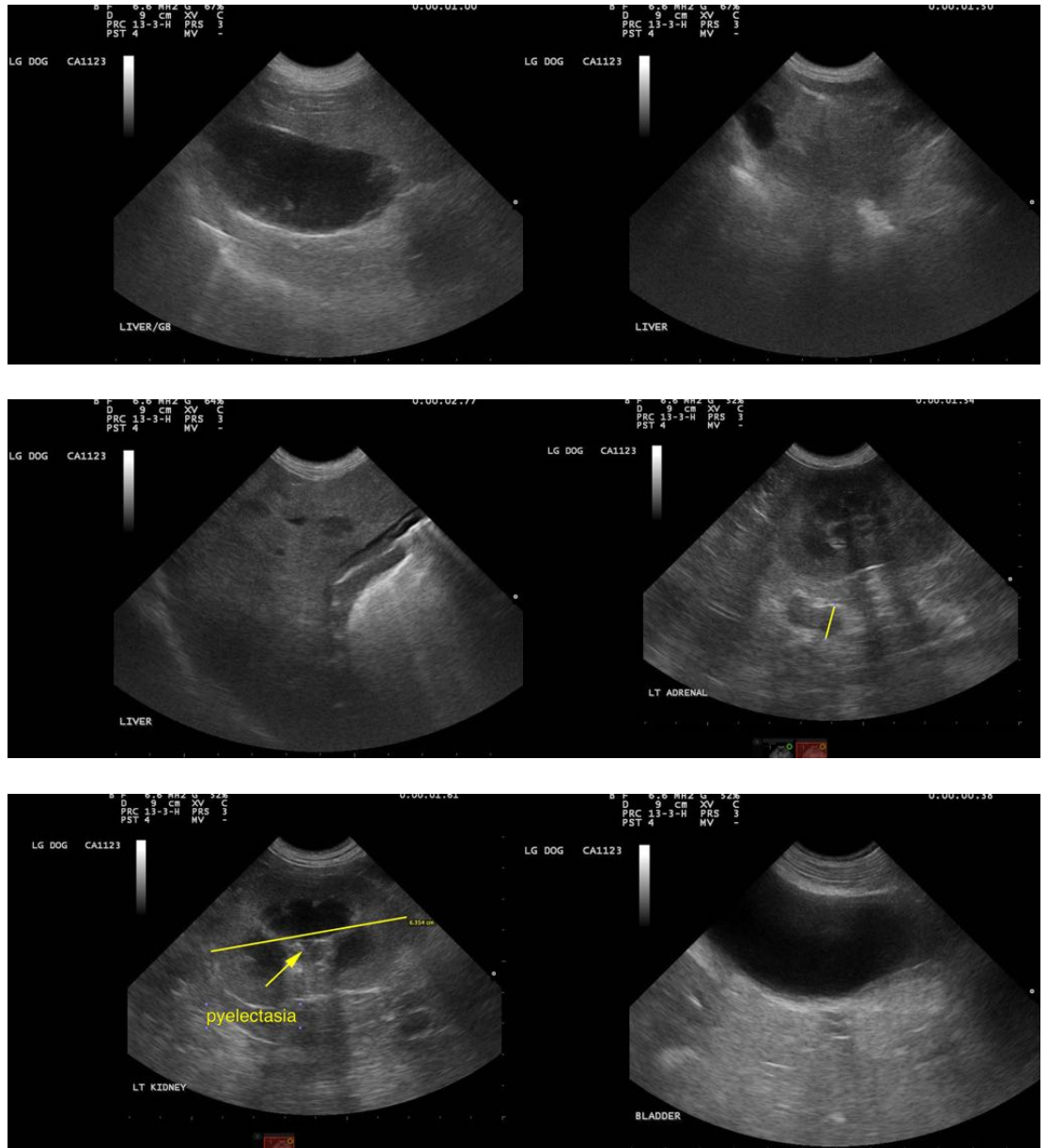
Dr. Rivera

**INVOICE**

76098

**DATE**

7/12/23



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