



**PATIENT PRESENTING CLINICAL SIGNS**

Izzie Iannazzo

**History:** Patient presented 6/17/22 for ADR, for two days has seemed painful: skaing, lethargic, having trouble w/ hind end, appetite has been decreased.

**SPECIES**

Currently on Hepato Trubenefits SID, Buprenorphine 0.01mg/kg transmucosly BID and Ursodial 125mg SID. O has also noticed increased diarrhea since this initial visit.

Canine

**BREED**

**Abnormal PE/Chem/CBC/UA Results:** Elevated liver values initially noted 5/16/22. Bloodwork 6/17/22: Elevations: Glob 4.6, ALT 838, ALKP >2000, GGT 14. Suspect cranial abdominal mass on lateral radiograph. Painful & tense to abdominal palpation- also during ultrasound imaging.

Pug

**SEX**

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

Spayed Female

**Urinary System**

**AGE**

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.

12 years

**WEIGHT**

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 this age patient. Medullary structure differed distinctly from that of the cortex and no evidence of pelvic dilation was present. The left kidney measured 4.57 cm. The right kidney measured 5.18 cm.

18.2 lbs

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**Adrenal Glands**

**IMAGING PERFORMED BY**

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 1.96 x 0.44 cm at the caudal pole and 0.46 cm at the cranial pole.

Melissa DaSilva

**HOSPITAL NAME**

**Spleen**

Pocono Peak VC

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. Norris Carney

**INVOICE**

**Liver**

31210

**DATE**

The **liver** revealed a large amount of gallbladder sand and lobar biliary sand. Increased portal markings were noted. This is consistent with remodeling from inflammatory hepatopathy. Minor, irregular swelling was noted primarily in the caudate process.

6/23/22



**PATIENT**

**Gastrointestinal**

Izzie Iannazzo

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.

**SPECIES**

Canine

**BREED**

Pug

**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.

**SEX**

Spayed Female

**ULTRASONOGRAPHIC FINDINGS**

Cholangitis liver pattern with biliary and gallbladder mineralization. Minor potential for neoplasia.

**AGE**

12 years

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**WEIGHT**

18.2 lbs

Ultrasound-guided FNA, cytology and culture of the liver is indicated. Ursodiol therapy is warranted empirically over a 6-8 week period. Bile acid profile is indicated. There is no evidence of neoplasia. The spleen is folded upon itself cranially and superimposed upon the liver, which presents irregular swelling, which is likely creating a mass effect. Early infiltrative disease of the liver/neoplasia can be considered; however, FNA is warranted to rule out this potential.

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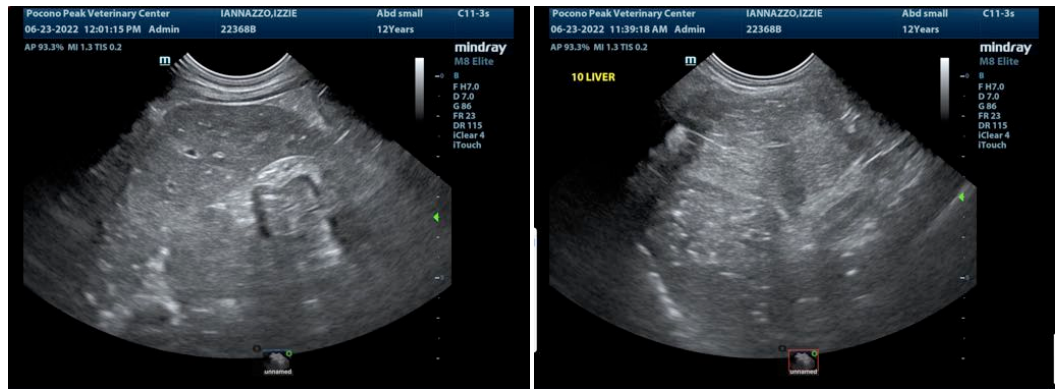
Dr. Norris Carney

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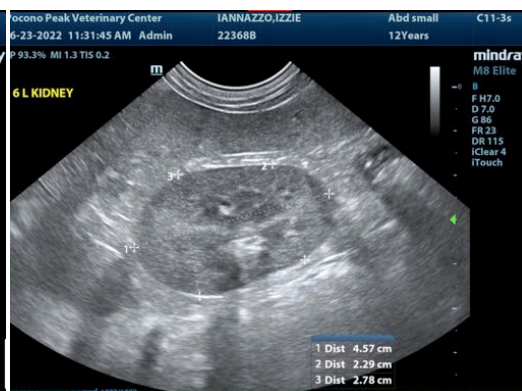
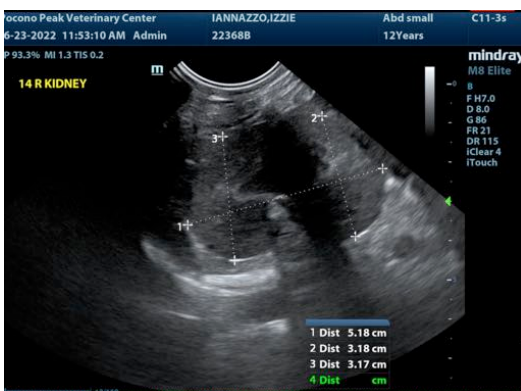
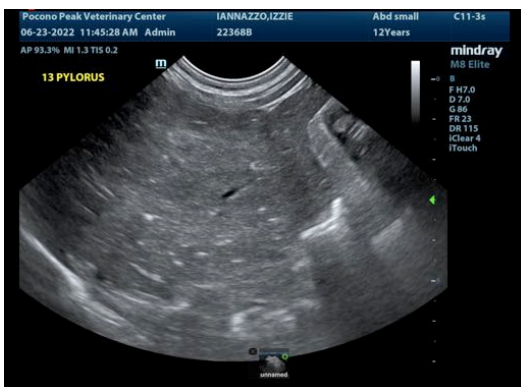
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**PATIENT**

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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.

**SPECIES**

Canine

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.

**BREED**

Pug

**Eric Lindquist, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com**  
info@SonoPath.com

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Spayed Female

**AGE**

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