



**PATIENT**

**PRESENTING CLINICAL SIGNS**

Ike Stasinopoulos

History: Recheck u/s - 6 weeks ago noninvasive nodules on spleen & adrenal. Has had lethargy and hyporexia which improved on meds. Current meds: Pred 1.5mg/kg/day, Doxycycline (1 month)  
Abnormal PE/Chem/CBC/UA Results: HCT 43%, Monos 1.5k, Neut 46k, Glob 4.0, AST 69, reticulocytes w/ nRBCs, PLT 158k (w/clumps), HCT 43 UA SG: 1.018

**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. The previously noted bladder sand is dissolved. No uroliths or sediment were visualized and anechoic urine was present. No evidence of inflammatory or neoplastic changes were noted. Ureteral papillae were normal.

**SEX**

NM

The kidneys revealed mild degenerative changes with pelvic calculi. The left kidney measured 6 cm in length. The right kidney measured 5.23 cm in length.

**AGE**

12 years

The residual prostate measured 5 mm.

**Adrenal Glands**

**WEIGHT**

24.8 pounds

Both adrenal glands were visualized, the left 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 1.76 cm in length by 0.69 cm caudal pole width by 0.4 cm cranial pole width.

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

The right adrenal gland has increased in size by approximately 3 mm, the nodule measured 1.5 cm x 1.17 cm. Overall, the right adrenal gland measured 2.54 cm in length by 0.36 cm caudal pole width by 1.25 cm cranial pole width.

**Spleen**

**IMAGING PERFORMED BY**

Jessica Miller

The splenic nodule measured 0.7 cm x 0.57 cm and was similar to the prior sonogram. Hyperechoic lipogranulomatous type nodules were noted in the spleen as well.

**Liver**

**HOSPITAL NAME**

American Animal  
Hospital

The liver images submitted revealed subjectively normal liver size, contour, and structure. Parenchymal echogenicity was naturally coarse and hypoechoic to the spleen. Vascular and biliary tracts were of normal volume with no evidence of congestion.

**REFERRING VET**

Dr. Pascucci

The gallbladder presented minor edematous walls similar to the prior sonogram and excessive debris consistent with emerging mucocele. The cystic and common bile ducts were normal. No pathological hepatic lymphadenopathy was evident

**Gastrointestinal**

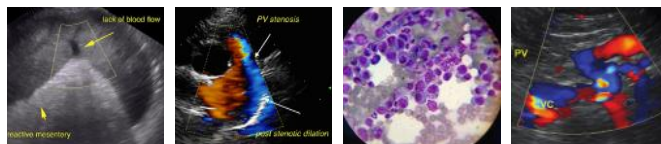
**INVOICE**

10507ag

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.

**DATE**

05/02/2022



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**Pancreas**

**SPECIES**

Canine

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.

**BREED**

Pug

**SEX**

NM

**ULTRASONOGRAPHIC FINDINGS**

- Stable splenic nodule
- Resolved bladder sand
- Stable nodular right gland
- Retained gastric ingesta noted
- Persistent excessive gallbladder debris

**AGE**

12 years

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Persistent excessive gallbladder debris was noted in this study. Ursodiol therapy should be continued and ALK PHOS, ALT and BILI values monitored periodically.

**WEIGHT**

24.8 pounds

The right adrenal gland has increased in size by approximately 3mm. The right adrenal nodule is likely an adenoma. If hypertension is an issue, pheochromocytoma is technically possible yet less likely. Right adrenalectomy and cholecystectomy could be considered in this patient as a proactive measure. Follow up sonogram in 1-2 months to assess for changes to the gallbladder and right adrenal gland is recommended.

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**IMAGING PERFORMED BY**

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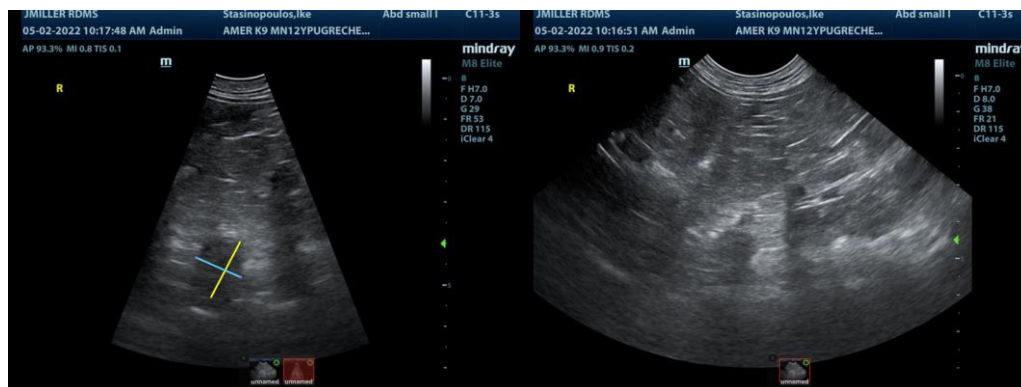
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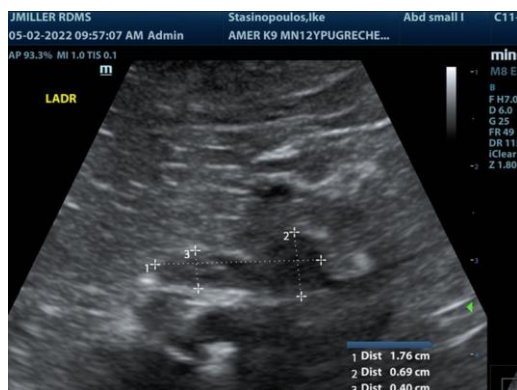
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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Eric.Lindquist@SonoPath.com