



PATIENT	PRESENTING CLINICAL SIGNS
Marley Gilbertson	History: History of elevated ALP 731 IU/L on 11/30/21 has increased from to 990 IU/L 9/9/22. No PU/PD at home, no lethargy, no anorexia. Since ALP continued to increase, owner elects to perform abdominal ultrasound of liver to assess. Also has Grade II/VI left apical systolic heart murmur. current medications: carprofen 75mg 1/2 a tablet PO q12h for osteoarthritis in elbow, Pimobendan 10mg PO q12h, enalapril 10mg PO q12h Abnormal PE/Chem/CBC/UA Results: Sept 9, 2022 - ALP 990IU/L (normal range 5-131) Nov 30th, 2021 - ALP 731 IU/L (normal range 20-250)
SPECIES Canine	
BREED Dalmatian	
SEX Spayed female	
AGE 9 years	
WEIGHT 59 lbs	
INTERPRETED BY Beth Johnson, DVM DACVIM	ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN
IMAGING PERFORMED BY Brian Klug	Urinary System Urinary bladder is adequately distended with anechoic contents. No masses, inflammatory changes, echogenic sediment or cystoliths are observed. The urinary bladder, trigone and visible pelvic urethra are normal in thickness with a smooth mucosal surface. Left kidney is normal is size (6.18 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia, mineral or infarcts observed. Right kidney is normal is size (6.31 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia, mineral or infarcts observed.
HOSPITAL NAME Sondel Family VC	Adrenal Glands Left adrenal gland is normal in size (0.58 cm at cranial pole and 0.61 cm at caudal pole), shape and overall architecture, echogenicity and echotexture. Visible surrounding vasculature appears normal. Right adrenal gland is normal in size (1.0 cm at cranial pole and 0.68 cm at caudal pole), shape and overall architecture, echogenicity and echotexture. Visible surrounding vasculature appears normal.
REFERRING VET Dr. Mohny	Spleen Spleen is subjectively normal in size with a normal smooth capsular contour. Parenchyma is appropriately finely textured and homogenous with normal echogenicity relative to surrounding tissue (hyperechoic to liver). Multifocal well-demarcated hyperechoic homogenous nodules are noted. Splenic vasculature appears normal.
INVOICE 39655	Liver Liver is subjectively normal in size with normal smooth curvilinear peripheral contour. Parenchyma is appropriately hypoechoic to the spleen in echogenicity and appropriately mildly coarse and homogenous in echotexture. No focal lesions are observed. Visible vasculature and biliary tree appear normal without distension or congestion.
DATE 9/27/22	



PATIENT	Gallbladder is moderately distended with anechoic bile as well as suspended and gravity dependent echogenic debris. The wall is smooth without visible thickening. There is no evidence of cystic or CBD dilation. There is no evidence of effusion or inflammation.
Marley Gilbertson	
SPECIES	<i>Gastrointestinal</i>
Canine	The visible stomach wall is normal in thickness and layering. The lumen of the stomach is mildly distended with echogenic non-shadowing luminal contents and gas consistent with normal ingesta. There is no evidence of obstruction, foreign material or infiltrative disease. Pyloric outflow tract appears patent.
BREED	
Dalmatian	The visible small intestines are normal in wall thickness and layering. Small intestinal motility appears adequate (1-3 contractions per min). The lumen of the small intestine is empty with no evidence of obstruction, foreign material or infiltrative disease.
SEX	
Spayed female	The visible colon is normal in wall thickness (< 0.2 cm) and layering. Contents are consistent with normal formed feces and gas.
AGE	
9 years	<i>Pancreas</i>
WEIGHT	The observed pancreas appears appropriately isoechoic to surrounding omental fat. Visible capsule is smooth and normal in contour. Visible pancreatic parenchyma is homogenous and unremarkable. There is no visible pancreatic duct dilation. There is no evidence of active peripancreatic inflammation.
59 lbs	
INTERPRETED BY	<i>Free Abdomen</i>
Beth Johnson, DVM DACVIM	There is no evidence of free peritoneal effusion noted in these images. There is no apparent lymphadenopathy noted in these images.
IMAGING PERFORMED BY	ULTRASONOGRAPHIC FINDINGS
Brian Klug	Primary Findings
HOSPITAL NAME	<ul style="list-style-type: none"> • Gallbladder debris - Cholecystic debris is of unknown clinical significance. It can be seen with biliary stasis from fasting or illness. Cholecystic debris is not necessarily related to hepatobiliary disease. Echogenic bile is most commonly an incidental finding in dogs and should be interpreted in combination with clinical signs such as nausea, inappetence, cranial abdominal discomfort and/or laboratory changes such as increased ALP and/or increased Tbili. • Hyperechoic splenic nodules – most consistent with benign myelolipomas. Other differentials such as fibrosis or calcification caused by old hematomas or infarcts, chronic inflammation, granulomatous disease or metastatic disease cannot be ruled out, but are considered less likely.
Sondel Family VC	
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IMAGING PERFORMED BY

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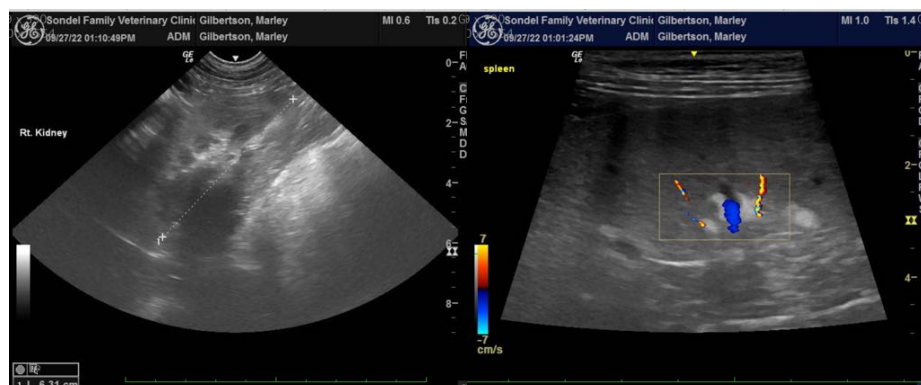
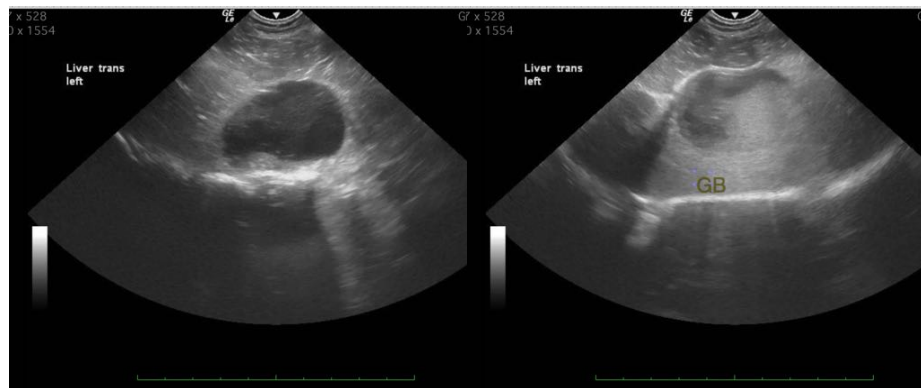
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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Differentials are vast and non-specific. Differentials include, but are not limited to, benign nodular hyperplasia which occurs in 70% of older dogs and often does not result in an abnormal ultrasound, reactive or idiopathic/vacuolar hepatopathy, cholestasis and/or hyperadrenocorticism as well as many chronic non-hepatobiliary diseases such as chronic infections/inflammation from dental disease, IBD, neoplasia, hyperlipidemia, hypothyroidism, chronic pancreatitis, chronic stress, etc.

Given the patient's lack of clinical signs for hyperadrenocorticism and the gallbladder debris/sludge noted in these images a course of Ursodiol with monitoring of the ALP for improvement can be considered.

Otherwise, recommendations include addressing any other concurrent diseases that may be present and monitoring. If the liver values are progressive recheck imaging and/or potentially liver sampling may be recommended.





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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.

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.

Beth Johnson, DVM DACVIM

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