



PATIENT

King Haran

SPECIES

Canine

BREED

Chihuahua

SEX

Neutered Male

AGE

10 Years

WEIGHT

12 lbs

INTERPRETED BY

Beth Johnson, DVM
DACVIM

IMAGING PERFORMED BY

Meghan Morse, LVT,
CVT

HOSPITAL NAME

Kingston Animal
Hospital

REFERRING VET

Dr. Turner

INVOICE

72381

DATE

1/22/26

PRESENTING CLINICAL SIGNS

Inappetance, lethargy, increased liver and pancreatic enzymes. No abdominal pain on palpation

Current meds: Pimobendan, Hydrocodone, Cerenia, Entyce

Abnormal PE/Chem/CBC/UA Results: BUN 28, Cl 108, ALT 439, ALP 1842, Lipase 2113

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The 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.

Prostate is normal in size, echotexture and echogenicity for a neutered male.

Kidneys are overall normal in size and shape with smooth peripheral margination. A normal 1:3 cortex to medulla ratio is maintained. The medulla and cortices are uniform in texture with some mild increased cortical echogenicity and mild loss of corticomedullary distinction, expected in this age patient. There is no evidence of pyelectasia or infarcts observed. Pinpoint non-obstructive mineral densities are noted in the left kidney. Left kidney measures 4.14 cm. Right kidney measures 4.5 cm.

Adrenal Glands

Adrenal glands are bilaterally mildly subjectively plump for a small dog. Normal shape and contour are maintained without evidence of capsular invasion. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal. Left measures 0.70 cm at the cranial pole and 0.70 cm at the caudal pole. Right measures 0.70 cm at the cranial pole and 0.50 cm at the caudal pole.

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.

Liver

Liver is subjectively enlarged (swollen contour) without disruption of architecture. It has a normal homogenous echotexture. Parenchyma is diffusely hyperechoic characterized by less prominent than normal portal vein walls and increased echogenicity relative to the spleen and falciform fat. No focal lesions are observed. Visible vasculature and biliary tree appear normal without distension or congestion.

The gallbladder is non-distended in size. The wall is smooth without visible thickening. Luminal contents are primarily anechoic. There is no evidence of cystic or common bile duct dilation.

Gastrointestinal

The visible stomach wall is normal in thickness and layering. The stomach is moderately distended with echogenic non-shadowing luminal contents and gas consistent with normal ingesta. There is no evidence of obstruction, foreign material or infiltrative disease. If patient was appropriately fasted,



PATIENT	delayed gastric emptying could be considered. Non-shadowing foreign material is considered less likely but cannot be definitively ruled out.
King Haran	
SPECIES	If clinical signs are consistent (vomiting, etc.), recommendations include supportive medical care, 24 hours fasting and re-image.
Canine	The visible small intestines are normal in wall thickness and layering. Small intestinal motility appears adequate (1-3 contractions per min). The lumen is mildly distended with echogenic non-shadowing luminal contents and gas consistent with normal ingesta/chyme. There is no evidence of obstruction, foreign material or infiltrative disease.
BREED	
Chihuahua	The visible colon is normal in wall thickness (< 0.2 cm) and layering. Contents are consistent with normal formed feces and gas.
SEX	
Neutered Male	Pancreas Pancreas is prominent (enlarged) in size and mildly irregular in shape with a slightly undulating contour. Parenchyma is coarse in echotexture and heterogenous to hypoechoic in echogenicity.
AGE	
10 Years	Free Abdomen There is no visible free peritoneal effusion noted in these images.
WEIGHT	
12 lbs	There is no apparent pathologic lymphadenopathy noted in these images.
INTERPRETED BY	PRIMARY FINDINGS
Beth Johnson, DVM DACVIM	<ul style="list-style-type: none"> Chronic low-grade smoldering pancreatitis can't be ruled out and should be suspected in the face of appropriate clinical signs. Subjectively mild bilateral adrenomegaly – In a patient diagnosed with hyperadrenocorticism, this finding is most consistent with adrenal hyperplasia secondary to pituitary dependent hyperadrenocorticism. This finding can also be seen with stress and/or normal patient variant. Interpret in combination with clinical signs of hyperadrenocorticism and/or other adrenal disease. Hyperechoic hepatomegaly – This appearance is non-specific and most consistent with a benign steroid (endocrine) or vacuolar hepatopathy or reactive or idiopathic hepatopathy. Inflammatory and/or infiltrative disease (such as round cell neoplasia) are also possible, but considered less likely. 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.
IMAGING PERFORMED BY	SECONDARY FINDINGS
Meghan Morse, LVT, CVT	<ul style="list-style-type: none"> Age related kidney changes with pinpoint non-obstructive mineral densities noted in the left kidney.
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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Given patient's reported decreased appetite, a gastrointestinal malabsorption panel (including cobalamin, folate, TLI and PLI) to Texas A&M GI Laboratory is recommended for further evaluation of GI and pancreatic function.

A baseline cortisol is recommended. If baseline cortisol is less than 2, a full ACTH stimulation test is recommended to rule out hypoadrenocorticism.

Pending results of that, further evaluation for possible pain (dental, orthopedic, other), upper respiratory disease or oropharyngeal disease, cardiac disease and/or neurologic disease vs other as possible causes for decreased appetite is also recommended.

Underlying adrenal disease such as hyperadrenocorticism, given the changes noted above, could be contributing to patient's reported liver enzyme changes, although does not typically result in lethargy and/or inappetence. Therefore, further workup for hyperadrenocorticism isn't typically recommended unless/until clinical signs are consistent with hyperadrenocorticism.

Having said that, if not recently evaluated, a urinalysis and, if indicated based on urinalysis results, urine culture is recommended. If protein is present in an otherwise quiet sediment, protein quantification with a urine protein to creatinine ratio is recommended.

A blood pressure is also advised.

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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
info@sonopath.com