



PATIENT

Tiger Wolverton

SPECIES

Canine

BREED

Chihuahua

SEX

MN

AGE

12 years

WEIGHT

5.7 kg

INTERPRETED BY

Beth Johnson, DVM
DACVIM

**IMAGING
PERFORMED BY**

Loetitia Saint-Jacques,
LVT

HOSPITAL NAME

Desert Hills

REFERRING VET

Dr. Murray

INVOICE

11197

DATE

1/29/2026

PRESENTING CLINICAL SIGNS

- Weight loss: 0.6 lb over recent period (previously 15.8 lb, now 15.2 lb)
- Senior canine; possible muscle wasting. New small cutaneous mass; pruritus, scratching at lesion. Seborrhea: flaking, black debris; medicated shampoo (Dr. Marie) used, clears for a few days. Diet: Free-fed Nutro Ultra dry, 1.5 oz canned chicken nightly No change in water intake or urination. Defecating normally; scooting noted. Previous hip discomfort: anal glands checked at last visit. No vomiting (occasional bile), no diarrhea, no coughing, no sneezing. Not more active on carprofen; lameness/limping at night, especially hindlimbs. Blood work performed October 2025 and June/July 2025: unremarkable per review
- Meds: Carprofen administered daily: 0.5 tab AM, 0.25 tab PM
- Vaccines up to date.
- Working diagnosis Open - Hepatopathy.

Abnormal PE/Chem/CBC/UA Results: CBC - WNL - HCT 64% Chem - ALT 202, GGT 15, BUN 49, Crea 1.5, PSL 150 T4 - 1.1 HWT - Neg Accuplex - Neg U/A - USG 1033, 3+ protein, UPC 0.9 Fecal - pending/need sample 1/21/2026 MEDS_ denamarin

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 corticomodullary distinction, expected in this age patient. There is no evidence of pyelectasia, mineral or infarcts observed. Left kidney measures 3.4 cm, and the right kidney measures 3.8 cm.

Adrenal Glands

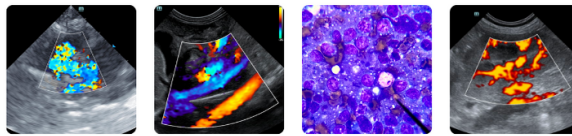
The right adrenal gland is normal in size (0.4 cm at cranial pole and 0.38 cm at caudal pole), shape and overall architecture, echogenicity and echotexture. Visible surrounding vasculature appears normal.

The left adrenal gland is normal in size (0.5 cm at cranial pole and 0.7 cm at caudal pole), shape and overall architecture, echogenicity and echotexture. Visible surrounding vasculature appears normal.

Spleen

Spleen is subjectively normal in size (1.4 cm thick at the hilus) 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



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Liver is subjectively enlarged with mildly irregular margins. Parenchyma is mildly heterogenous characterized by multiple poorly defined hypoechoic nodules within otherwise hyperechoic liver parenchyma. Visible vasculature and biliary tree appear normal without distension or congestion. The rounded size is most prominent in the right caudal liver.

Gallbladder is mildly overdistended with a moderate amount of non-dependent, mildly aggregated/inspissated sludge. Hypo to anechoic cystic areas are noted between the gallbladder sludge and luminal wall. The wall is otherwise smooth without visible thickening. There is no evidence of cystic or CBD dilation. There is no evidence of effusion.

Gastrointestinal

The visible stomach wall is normal in thickness and layering. The lumen of the stomach is empty with no evidence of obstruction, foreign material or infiltrative disease. Pyloric outflow tract appears patent.

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.

The visible colon is normal in wall thickness (< 0.2 cm) and layering. Contents are consistent with normal formed feces and gas.

Pancreas

The area of the pancreas contains irregular hyperechoic pancreatic remodeling.

Free Abdomen

There is no visible free peritoneal effusion noted in these images.

There is no apparent pathologic lymphadenopathy noted in these images.

Assessment of heart base images is included when/if a splenic nodule/mass is present (as a complimentary add on). They are also assessed when a specific request is made for assessment of a limited second cavity (heart base and/or thorax) for an additional charge. Images of the heart (and/or) thorax were not assessed for this study. Please contact us if you would like a second cavity.

PRIMARY FINDINGS

- Hyperechoic pancreas – This finding is suggestive of pancreatic fibrosis, possibly secondary to chronic pancreatitis. A TLI is recommended to rule out exocrine pancreatic insufficiency (EPI), especially if clinical signs (weight loss, diarrhea, etc.) are present.
- Emerging mucocele – 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. The non-dependent nature of this sludge combined with the cystic areas are suggestive, however, of possible emerging cystic mucosal hyperplasia or early gallbladder mucocele.
- Mildly heterogenous liver – These changes are most consistent with benign processes such as nodular hyperplasia, steroid (vacuolar) hepatopathy, extramedullary hematopoiesis or possibly



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chronic inflammatory disease and less commonly infiltrative round cell or metastatic neoplasia.

SECONDARY FINDINGS

- 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.
- Age related kidney changes.

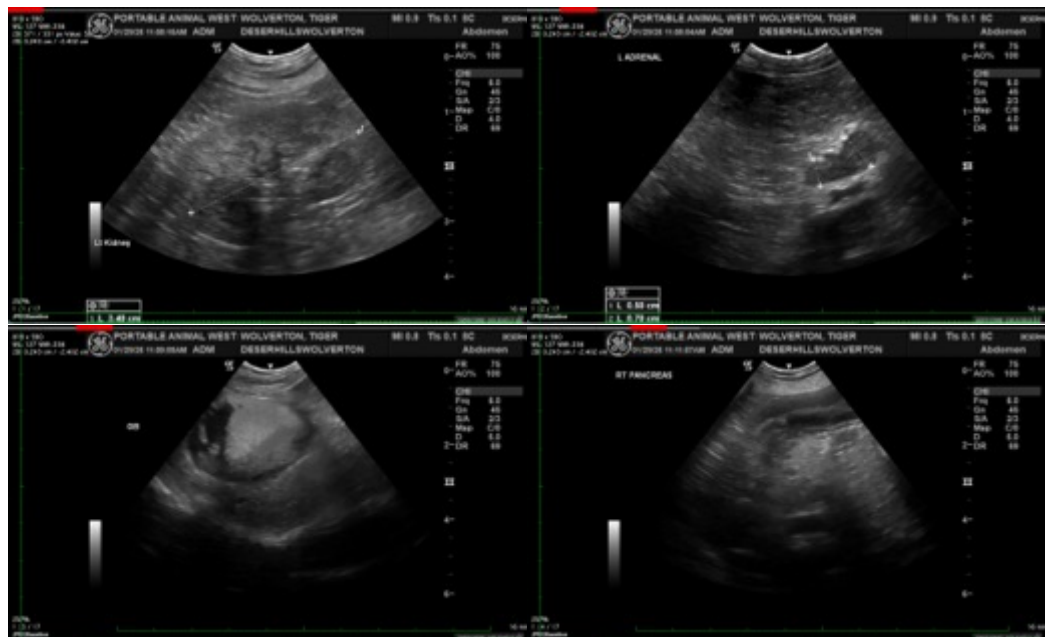
INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Further recommendations regarding weight loss depend largely on appetite. If not already evaluated, a thorough evaluation of daily caloric intake is recommended to assure an adequate daily caloric intake is occurring vs an inadvertent reduction in calories due to change in diet and/or feeding schedule, competitive eating environment, etc.

If daily caloric intake is appropriate or even increased, then further investigation of digestion and absorption is recommended beginning with 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.

If not, then addition to investigation of gastrointestinal health, evaluation of other causes for decreased appetite, including in this case, potentially the emerging gallbladder mucocele, is recommended.

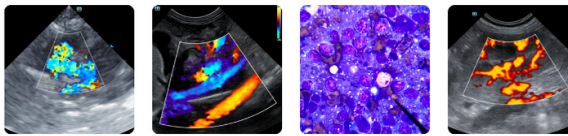
Further evaluation for possible pain (dental, orthopedic, other), upper respiratory disease or oropharyngeal disease, cardiac disease and/or neurologic disease vs other as possible causes for decreased appetite and/or unintentional weight loss is also recommended.



Imaging performed by



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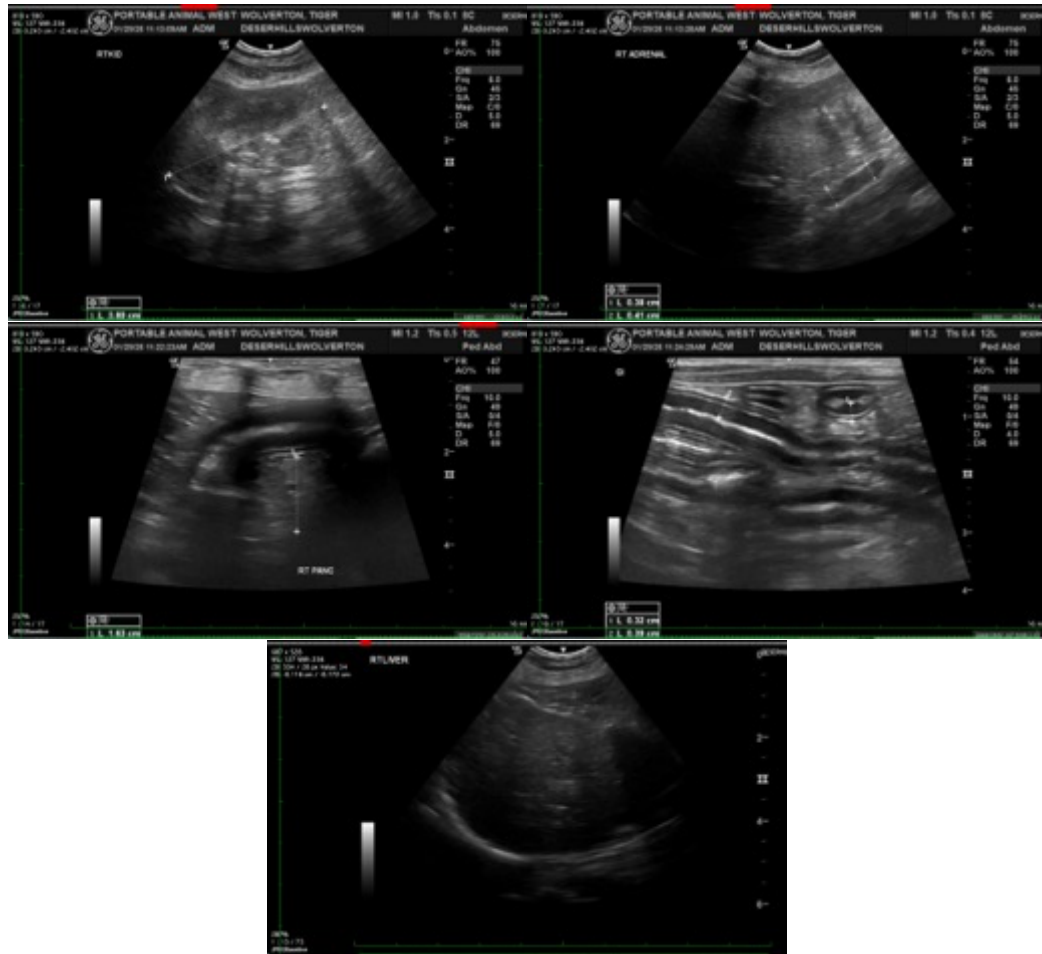
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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