



PATIENT

Fred O'Keefe

SPECIES

Canine

BREED

Jack Russell Terrier

SEX

Neutered Male

AGE

14 Years

WEIGHT

15 lbs

INTERPRETED BY

Beth Johnson, DVM
DACVIM

IMAGING PERFORMED BY

Julia Bakker, DVM

HOSPITAL NAME

Orange Blossom
Veterinary Imaging

REFERRING VET

Melisa Cardenas, DVM

INVOICE

74787

DATE

4/28/26

PRESENTING CLINICAL SIGNS

Moderate to markedly increased liver values, and skin infection, possible calcinosis cutis. Performing LDDS test as well. History of heart murmur.

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, mineral or infarcts observed. Left kidney measured 4.18 cm. Right kidney measured 4.79 cm.

Adrenal Glands

The right adrenal gland is plump/swollen in size, measuring 1.2 cm at the cranial pole and 0.67 cm at the caudal pole. Normal shape and contour are maintained without evidence of capsular invasion. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.

The left adrenal gland is normal in size (0.47 cm at cranial pole and 0.44 cm at caudal pole), shape and overall architecture, echogenicity and echotexture. Visible surrounding vasculature appears normal.

Spleen

The 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). No focal nodules or masses are observed. Splenic vasculature appears normal.

Liver

Liver is normal to subjectively small in size with slightly undulating or scalloped capsular contour or margins. Parenchyma is diffusely heterogenous with increased portal markings and coarse architecture. No focal nodules or masses are observed. Visible vasculature and biliary tree appear normal without distension or congestion.

Gallbladder is moderately overdistended with organized, aggregated and centralized non-gravity dependent sludge. Striations of sludge separated by anechoic areas are noted extending from the lumen to the luminal wall. The wall is mildly thick, irregular and hyperechoic. There is no evidence of CBD dilation.

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.



PATIENT

Fred O'Keefe

SPECIES

Canine

BREED

Jack Russell Terrier

SEX

Neutered Male

AGE

14 Years

WEIGHT

15 lbs

INTERPRETED BY

Beth Johnson, DVM
DACVIM

IMAGING PERFORMED BY

Julia Bakker, DVM

HOSPITAL NAME

Orange Blossom
Veterinary Imaging

REFERRING VET

Melisa Cardenas, DVM

INVOICE

74787

DATE

4/28/26

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 pancreas that is observed 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.

Free Abdomen

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

There is no apparent pathologic lymphadenopathy noted in these images.

PRIMARY FINDINGS

- Gallbladder mucocele.
- Otherwise, an obvious cause for the significant liver changes is not identified in these images. Microscopic disease such as Leptospirosis, bacterial cholangiohepatitis, chronic active hepatitis, copper-associated hepatotoxicity, other hepatotoxicity, other reactive hepatopathy, infiltrative neoplasia, etc. cannot be definitively ruled out.
- The mild right adrenomegaly should be interpreted in combination with patient's clinical history, as emerging adrenal disease including hyperadrenocorticism can't be definitively ruled out, although normal patient variant is also possible.

SECONDARY FINDINGS

- Moderate age related kidney changes.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

As described above, hyperadrenocorticism or other adrenal disease can't be ruled out, although given the appearance of the liver and gallbladder, a concurrent hepatopathy and/or the mucocele are likely also contributing to patient's reportedly markedly increased liver enzymes. Therefore:

Three view thoracic radiographs are recommended for further assessment of cardio-pulmonary status as well as to further evaluate for any evidence of metastatic disease, if not recently evaluated.

Bile acids could be considered if patient's total bilirubin is not increased.

Sampling of the liver could be considered if patient's coagulation status is appropriate, beginning with fine needle aspirates and/or proceeding to a liver biopsy.

In the meantime, a blood pressure is recommended if not recently evaluated.



PATIENT

Fred O'Keefe

Hormone testing could be considered, given the reported calcinosis cutis, beginning with a low-dose Dexamethasone suppression test.

SPECIES

Canine

Other than supportive/symptomatic medical management of clinical signs, further treatment recommendations are largely dependent on results of the above.

BREED

Jack Russell Terrier

SEX

Neutered Male

AGE

14 Years

WEIGHT

15 lbs

INTERPRETED BY

Beth Johnson, DVM
DACVIM

IMAGING PERFORMED BY

Julia Bakker, DVM

HOSPITAL NAME

Orange Blossom
Veterinary Imaging

REFERRING VET

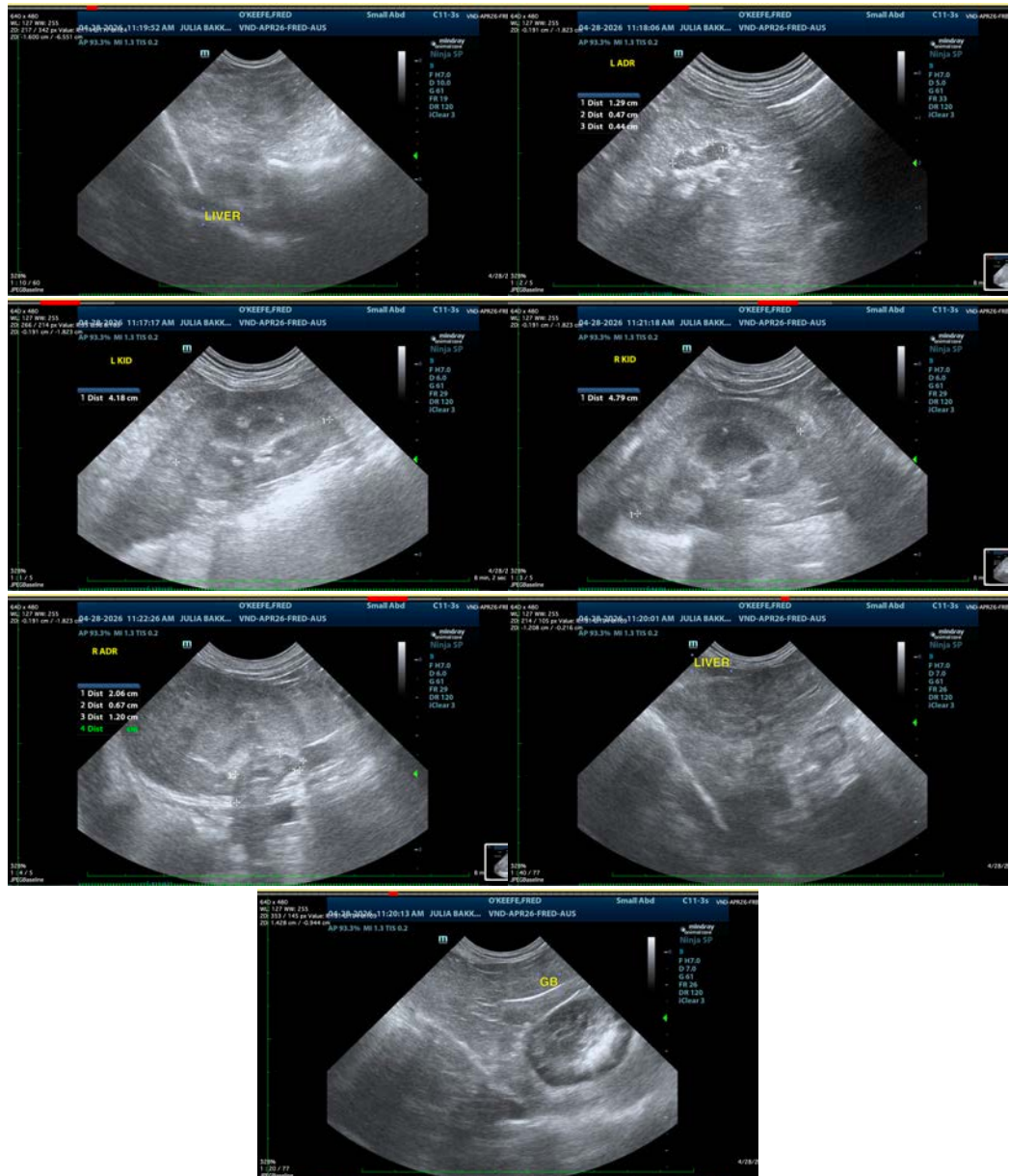
Melisa Cardenas, DVM

INVOICE

74787

DATE

4/28/26





PATIENT

Fred O'Keefe

SPECIES

Canine

BREED

Jack Russell Terrier

SEX

Neutered Male

AGE

14 Years

WEIGHT

15 lbs

INTERPRETED BY

Beth Johnson, DVM
DACVIM

IMAGING PERFORMED BY

Julia Bakker, DVM

HOSPITAL NAME

Orange Blossom
Veterinary Imaging

REFERRING VET

Melisa Cardenas, DVM

INVOICE

74787

DATE

4/28/26

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