



PATIENT

Rolo Perez

SPECIES

Canine

BREED

Miniature Schnauzer

SEX

Male Neutered

AGE

11y 7m

WEIGHT

16 lbs

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Dr. Gabriel Ferrer,
DVM

HOSPITAL NAME

Pulse Pet Ultrasound
Services

REFERRING VET

Dr. Lionel Ricci

INVOICE

12956

DATE

12/16/25

PRESENTING CLINICAL SIGNS

History: Pt presented as a referral for an abdominal u/s to evaluate splenic and liver mass, and hx of lethargy and pica for about 1.5 months. Started eating miscellaneous objects off of the floor and gets aggressive with O, also reports pt to be lethargic as well does not have the same playful energy as before. FNA of the spleen and liver was performed.

Abnormal PE/Chem/CBC/UA Results: CBC and CHEM: -Non-regenerative microcytic anemia - Basophilia -Thrombocytopenia -Hypophosphatemia -High ALP -High Amylase -Normal T4 Bloodwork and radiographs attached as supporting documents.

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra exhibited normal thickness and tone. Anechoic urine was present in the lumen with no uroliths or sediment, mineral or calculi. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes were noted.

The residual prostate was sonographically normal measuring 1.3 cm in diameter.

Normal size and margination was present in the kidneys. A normal 1:3 cortex / medulla ratio was maintained. The medulla and cortices were uniform in texture with some increased echogenicity and mild to moderate loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. Minor medullary mineral was noted. The left kidney measured 4.7 cm in length. The right kidney measured 4.6 cm in length.

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.50 cm width at the caudal pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.35 cm width at the caudal pole.

Spleen

Mild to moderately expansive, non-homogeneous splenic mass was present measuring 5 - 6 cm in diameter. Associated asymmetrical splenic capsule distortion. Concurrent separate non-capsule deforming non-homogeneous nodules were present with an example measuring 0.71 cm in diameter.

Liver

The liver exhibited hepatomegaly. The parenchyma of the liver was subjectively normal in echogenicity compared to the spleen and renal cortices. The liver parenchyma was uniform with a mildly coarse echotexture. The capsule of the liver was symmetrically rounded to mildly swollen in margination. The hepatic and portal vasculature were normal in appearance without signs of congestion. Several to multiple, variably sized yet non-capsule deforming, non-homogeneous to mildly hyperechoic intraparenchymal nodules to small masses. An example of small mass measured 3.0 cm and an example of nodule measured 2.2 cm in diameter. The gallbladder was non-distended in size with normal wall and without evidence of inflammation or edema. Moderate, congealed, hyperechoic yet non-organized



PATIENT

Rolo Perez

SPECIES

Canine

BREED

Miniature Schnauzer

SEX

Male Neutered

AGE

11y 7m

WEIGHT

16 lbs

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Dr. Gabriel Ferrer,
DVM

HOSPITAL NAME

Pulse Pet Ultrasound
Services

REFERRING VET

Dr. Lionel Ricci

INVOICE

12956

DATE

12/16/25

debris along with non-dependent, non-organized debris. Area of congealed gallbladder debris measured ~3.5 cm in diameter. The cystic and common bile ducts were normal.

Gastrointestinal

The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach was empty with no signs of ileus, obstruction or foreign material.

The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. Focal hyperechoic duodenal jejunal mucosal speckling. The lumen of the small intestine was empty with no signs of ileus, obstruction or foreign material.

Normal visible colon wall layers were present with apparent formed feces in lumen.

Pancreas

The pancreas was mildly prominent in size and contour with isoechoic to heterogeneous parenchyma compared to adjacent omentum. No signs of active inflammation or neoplasia.

Free Abdomen

No visualized significant omental lymphadenopathy or peritoneal effusion was present.

Heart

Rapid view of the heart revealed no evidence of pericardial masses or effusion in the visible window.

PRIMARY FINDINGS

- Splenic mass with concurrent splenic nodules
- Hepatomegaly with multiple non-homogeneous mildly hyperechoic intraparenchymal nodules/small masses
- Congealed gallbladder debris – not consistent with mucocele criteria
- Structurally unremarkable gastrointestinal tract with nonspecific focal intestinal mucosal speckling
- Mildly prominent non-homogeneous pancreas

SECONDARY FINDINGS

- Age-related renal changes with mild medullary mineral

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Sample required for further clarification. Multicentric hepatosplenic neoplasia is suspected with benign etiology, i.e. hyperplasia, hematopoiesis, granulomas, etc. thought less likely. Correlation with pending cytology is recommended. A GI panel to include PLI/TLI/Cobalamin/Folate to assess for intestinal disease or chronic pancreatitis as a contributing factor to the patient's gastrointestinal signs and weight loss may be considered. 3-view chest radiograph is recommended if not done.



PATIENT

Rolo Perez

SPECIES

Canine

BREED

Miniature Schnauzer

SEX

Male Neutered

AGE

11y 7m

WEIGHT

16 lbs

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Dr. Gabriel Ferrer,
DVM

HOSPITAL NAME

Pulse Pet Ultrasound
Services

REFERRING VET

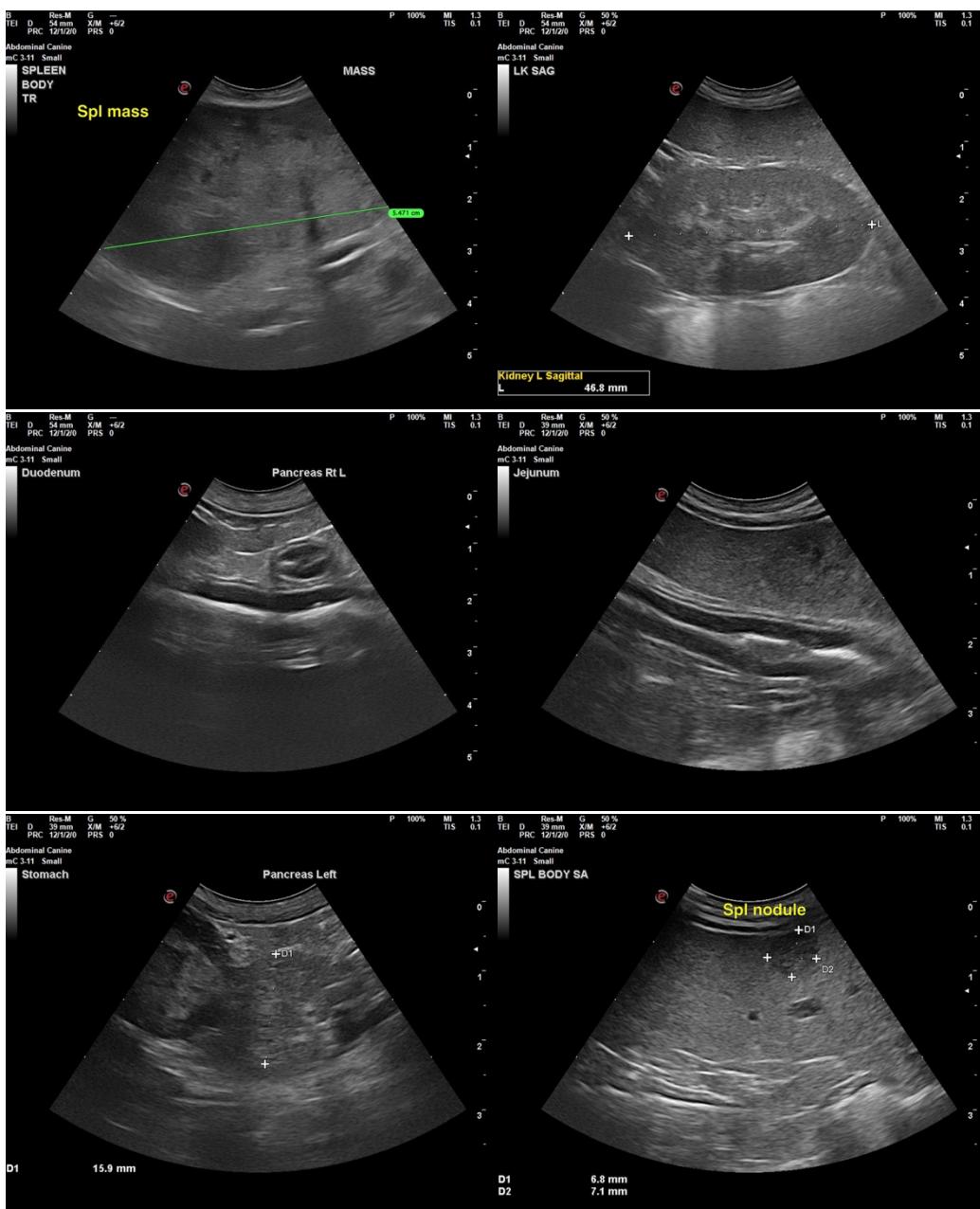
Dr. Lionel Ricci

INVOICE

12956

DATE

12/16/25





PATIENT

Rolo Perez

SPECIES

Canine

BREED

Miniature Schnauzer

SEX

Male Neutered

AGE

11y 7m

WEIGHT

16 lbs

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Dr. Gabriel Ferrer,
DVM

HOSPITAL NAME

Pulse Pet Ultrasound
Services

REFERRING VET

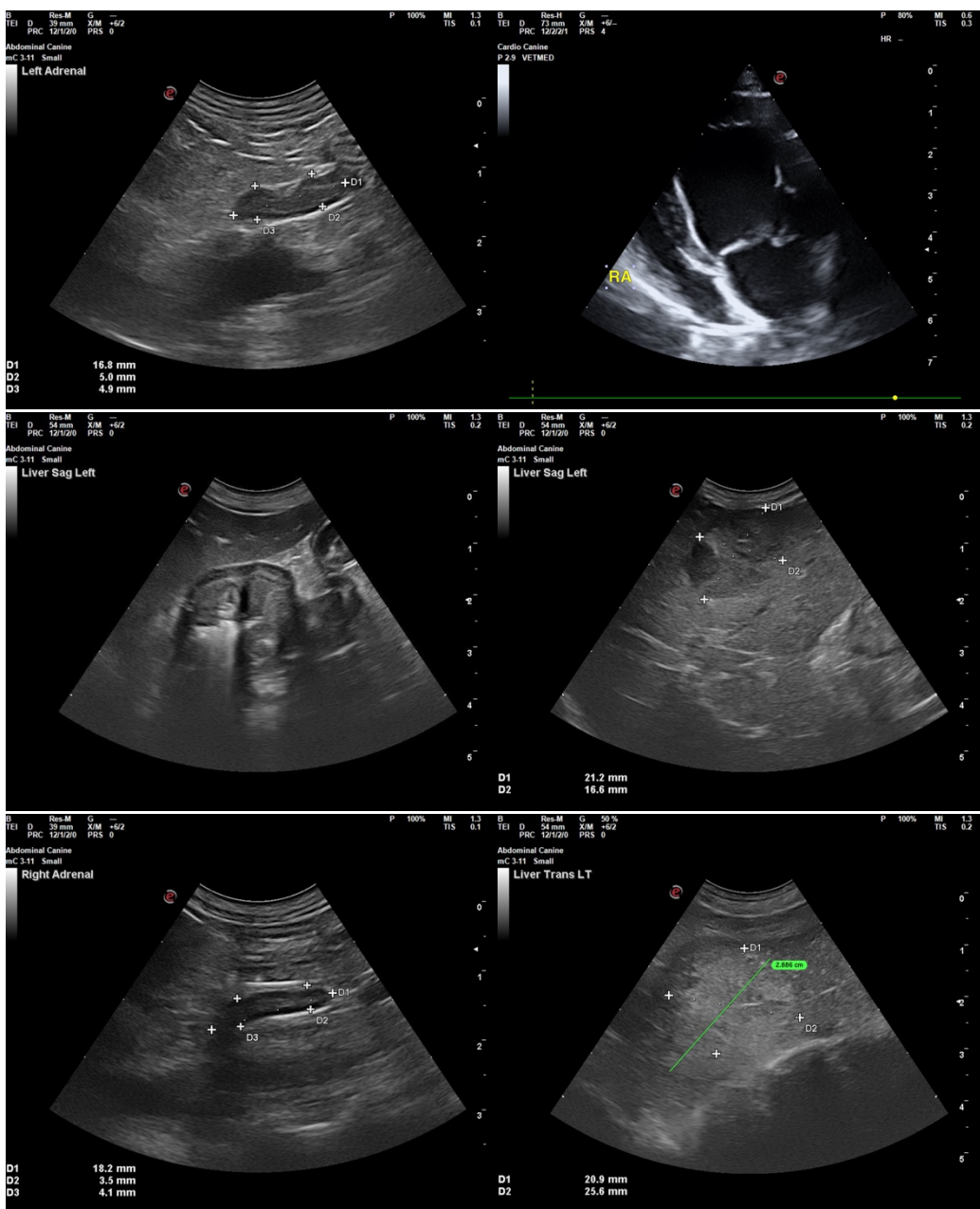
Dr. Lionel Ricci

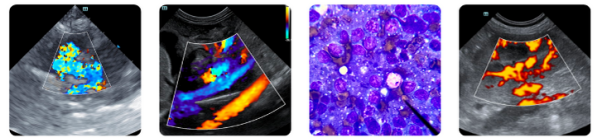
INVOICE

12956

DATE

12/16/25





PATIENT

Rolo Perez

SPECIES

Canine

BREED

Miniature Schnauzer

SEX

Male Neutered

AGE

11y 7m

WEIGHT

16 lbs

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Dr. Gabriel Ferrer,
DVM

HOSPITAL NAME

Pulse Pet Ultrasound
Services

REFERRING VET

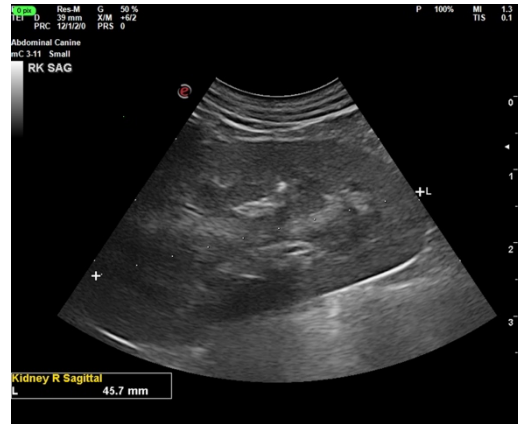
Dr. Lionel Ricci

INVOICE

12956

DATE

12/16/25



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.

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)

info@sonopath.com