



PATIENT PRESENTING CLINICAL SIGNS

Aries Gama
History: Decreased/picky appetite
Abnormal PE/Chem/CBC/UA Results: Elevated Tbili and ALKP

SPECIES Urinary System

Canine
The urinary bladder is mildly distended. The wall is of appropriate thickness for the level of repletion. A few small cystic calculi (versus aggregations of mineralized sand) are observed within the lumen. The region of the visible portion of the proximal urethra are normal.

BREED

Chihuahua
The prostate is normal in size (0.53 cm in width) and shape. Parenchyma is homogenous. The prostatic urethra appears normal without evidence of dilation or obstruction.

SEX

Neutered Male
The left kidney is normal in size (4.05 cm in length) with a normal shape, smooth peripheral margins, and normal internal architecture. There is mild to moderate loss of corticomedullary distinction. Several hyperechoic shadowing diverticular foci are observed. There is no evidence of pyelectasia, infarcts or hydronephrosis. Renal vasculature is normal.

AGE

9 years 11 mo
The right kidney is normal in size (4.61 cm in length) with a normal shape, smooth peripheral margins, and normal internal architecture. There is mild to moderate loss of corticomedullary distinction. Several hyperechoic shadowing diverticular foci are observed. There is no evidence of pyelectasia, infarcts or hydronephrosis. Renal vasculature is normal.

WEIGHT

19 lbs

Adrenal Glands

The left adrenal gland is normal size (0.50 cm at cranial pole) (0.53 cm at caudal pole) (1.55 cm in length); normal shape; homogenous parenchyma. The glandular echogenicity and detail are unremarkable. Capsule, cortex, and medullary definition are normal. The phrenicoabdominal vein and surrounding vasculature are normal.

INTERPRETED BY

Andrea Nicastro,
DVM, Diplomate ACVIM
(Small Animal Internal
Medicine)

The right adrenal gland is normal size (0.59 cm at cranial pole) (0.45 cm at caudal pole) (1.61 cm in length); normal shape; homogenous parenchyma. The glandular echogenicity and detail are unremarkable. Capsule, cortex, and medullary definition are normal. The phrenicoabdominal vein and surrounding vasculature are normal.

IMAGING PERFORMED BY

Shari Reffi, CVT

Spleen

The spleen is normal in size (0.77 cm in width at the level of the hilus) with a normal capsular contour. There is appropriate echogenicity and echotexture. No focal lesions are observed. Splenic vasculature is normal.

HOSPITAL NAME

Newton Vet

Liver

The liver is subjectively normal in size with normal contours and structure. There is appropriate echogenicity and echotexture. No overt structural evidence of inflammatory, infiltrative or regenerative pathology is evident. Vascular and biliary tracts are of normal volume with no evidence of congestion. No pathological hepatic lymphadenopathy observed.

REFERRING VET

**Dr. Wyman-
Greenwald**

The gall bladder lumen is moderately distended. The wall is thin and smooth. Luminal contents are anechoic. The cystic and common bile ducts are normal.

INVOICE

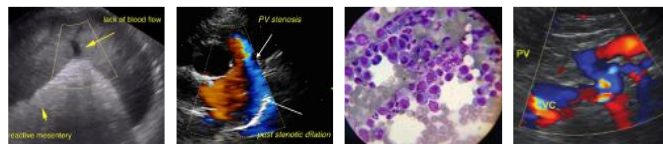
10325

Gastrointestinal

The stomach and intestine are free of stasis and exhibit normal peristaltic activity. The gastric lumen is minimally distended with fluid. The gastric wall and pylorus are normal in thickness with a normal layering pattern. The small intestinal lumen is not dilated. The small intestinal wall thickness is normal

DATE

2/11/22



PATIENT

Aries Gama

with a normal layering pattern and appropriate mural detail. Discreet masses are not identified. The colonic wall is normal. No obstructive or overt infiltrative disease is noted.

SPECIES

Canine

Pancreas

The right limb of the pancreas is visible with normal curvilinear peripheral contours. The parenchyma is largely isoechoic relative to surrounding omental fat and slightly mottled in appearance. The pancreatic duct is visible but not overtly dilated. There is no evidence of peripancreatic inflammation or effusion.

BREED

Chihuahua

Free Abdomen

The peritoneal cavity is normal. There is no evidence of inflammation or effusion. The abdominal lymph nodes are normal/not visible.

SEX

Neutered Male

Other

A brief echocardiogram reveals no evidence of pericardial effusion.

AGE

9 years 11 mo

ULTRASONOGRAPHIC FINDINGS

Primary Findings

- Age-related pancreatic remodeling +/- fibrosis. Low-grade pancreatitis is also possible, particularly if a positive Murphy's sign is present.

WEIGHT

19 lbs

Secondary Findings

- Bilateral degenerative renal changes with dystrophic mineralization.
- Questionable cystic calculi (versus aggregated mineralized sand)

INTERPRETED BY

Andrea Nicastro,
DVM, Diplomate ACVIM
(Small Animal Internal
Medicine)

** An obvious cause for the patient's clinical signs is not identified in this study. Considerations include low-grade pancreatitis, underlying metabolic issue, microscopic gastrointestinal disease, occult neoplasia, other.

IMAGING PERFORMED BY

Shari Reffi, CVT

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

HOSPITAL NAME

Newton Vet

- Depending on the degree of elevations in the ALP and total bilirubin, pre-and postprandial serum bile acids and hepatic tissue sampling (i.e., fine-needle aspirate or surgical biopsy) may be warranted. Also consider Leptospirosis testing (i.e., blood and urine PCR, serology)
- Also consider a GI panel including serum cobalamin, folate, TLI and PLI to further assess for maldigestion/malabsorption and underlying pancreatic disease.
- Initiation of an antioxidant such as Denamarin can also be considered.
- Three-view thoracic radiographs are recommended to assess cardiopulmonary status.
- Regarding the urinary bladder mineralizations, abdominal x-rays can be considered to assess for discreet calculi. Alternatively, consider a repeat ultrasound in 3-4 weeks to reassess for cystic calculi.

REFERRING VET

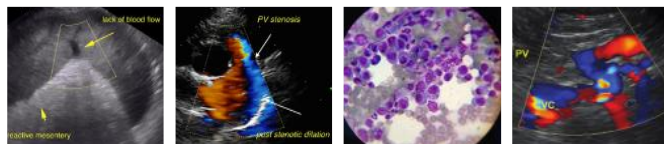
Dr. Wyman-
Greenwald

INVOICE

10325

DATE

2/11/22



PATIENT

Aries Gama

SPECIES

Canine

BREED

Chihuahua

SEX

Neutered Male

AGE

9 years 11 mo

WEIGHT

19 lbs

INTERPRETED BY

Andrea Nicastro,
DVM, Diplomate ACVIM
(Small Animal Internal
Medicine)

**IMAGING
PERFORMED BY**

Shari Reffi, CVT

HOSPITAL NAME

Newton Vet

REFERRING VET

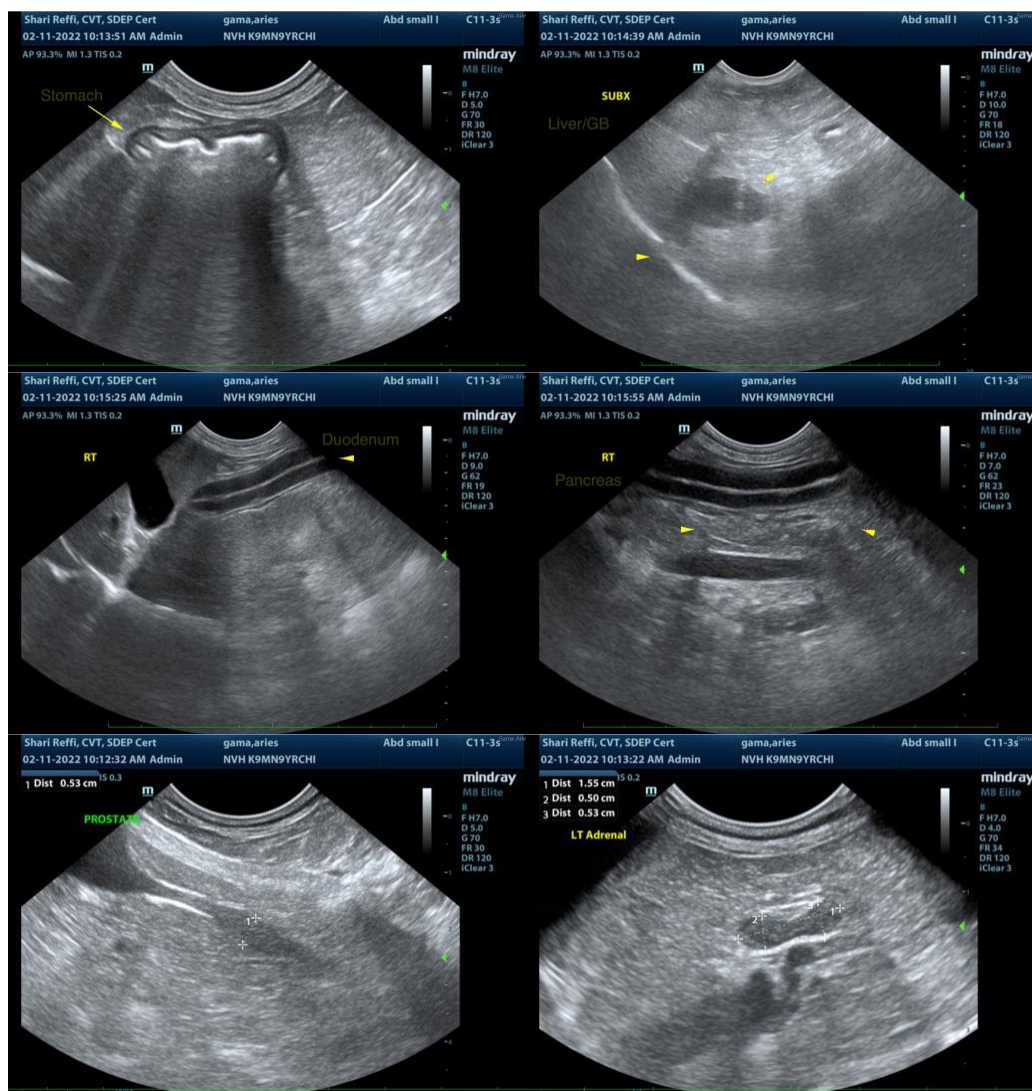
Dr. Wyman-
Greenwald

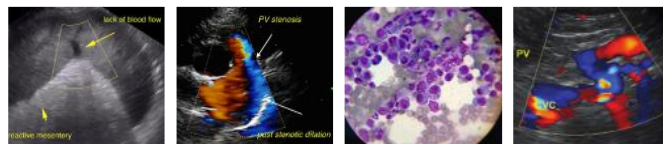
INVOICE

10325

DATE

2/11/22





PATIENT

Aries Gama

SPECIES

Canine

BREED

Chihuahua

SEX

Neutered Male

AGE

9 years 11 mo

WEIGHT

19 lbs

INTERPRETED BY

Andrea Nicastro,
DVM, Diplomate ACVIM
(Small Animal Internal
Medicine)

**IMAGING
PERFORMED BY**

Shari Reffi, CVT

HOSPITAL NAME

Newton Vet

REFERRING VET

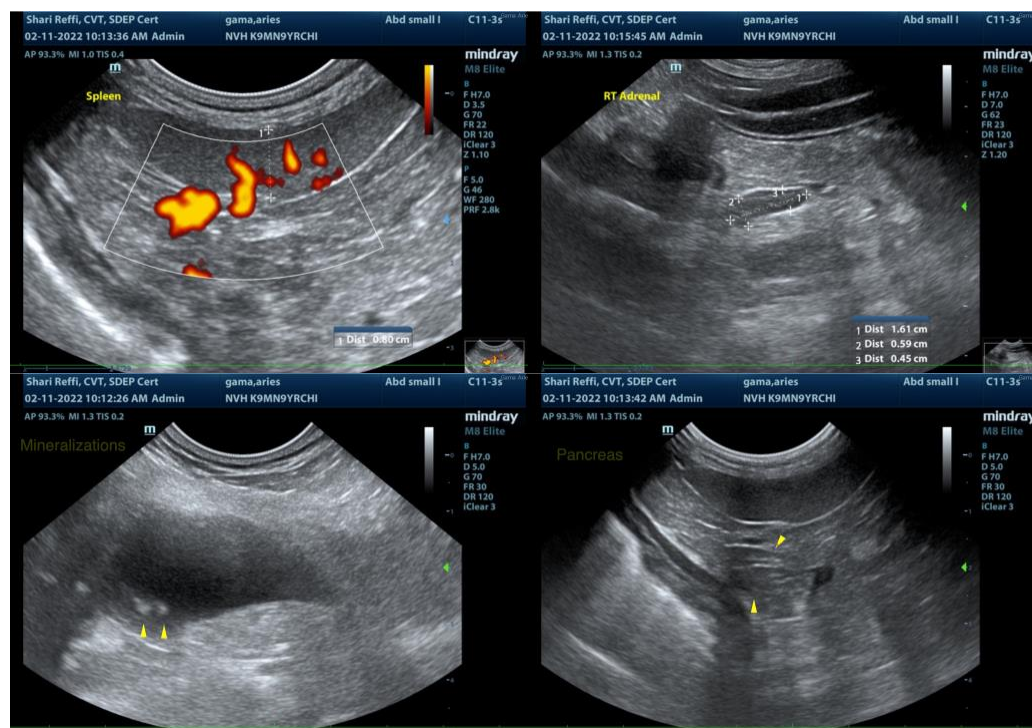
Dr. Wyman-
Greenwald

INVOICE

10325

DATE

2/11/22



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.

Andrea Nicastro, DVM, Diplomate DACVIM (Small Animal Internal Medicine)
info@SonoPath.com