



PATIENT PRESENTING CLINICAL SIGNS

Biscotti Martin
History: pt has had decreased appetite for 4 days. no bm production in 2 days. No c/s/v/d, had splenectomy in March and the biopsy indicated non-cancerous. Pt has had a slow decline over the last week. Hx of chicken allergy.

SPECIES

Canine

BREED

Terrier mix

Abnormal PE/Chem/CBC/UA Results
EPOC: high normal creat (1.48), BUN 29 mg/dL, HCT 25%
PT/PTT - no slides in house
SNAP4dx - Ehrlichia positive

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

SEX

Neutered male

Urinary System

The urinary bladder wall is normal in thickness and the mucosal surface is smooth. The bladder is moderately distended. Luminal contents are anechoic. No cystic calculi are observed. The region of the trigone and the proximal urethra, visible to a depth of 2 cm, are normal.

AGE

9 years

The prostate is normal in size (1.52 cm in width) and shape. Parenchyma is homogenous. The prostatic urethra appears normal without evidence of dilation or obstruction.

WEIGHT

68.5 lbs

The left kidney is normal in size (8.61 cm in length) with a normal shape, architecture and smooth peripheral margins. The cortex is isoechoic relative to the spleen. There is a normal 1:3 cortex to medulla ratio with moderate loss of corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter.

INTERPRETED BY

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

The right kidney is normal in size (9.51 cm in length) with a normal shape, architecture and smooth peripheral margins. The cortex is isoechoic relative to the spleen. There is a normal 1:3 cortex to medulla ratio with moderate loss of corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter.

IMAGING PERFORMED BY

Dr. Neuhaus

Adrenal Glands

The left adrenal gland is subjectively normal in length (0.52 cm at cranial pole) (0.61 cm at caudal pole) with a slightly flattened contour. The glandular echogenicity and detail are unremarkable. Capsule, cortex, and medullary definition are normal. The phrenicoabdominal vein and surrounding vasculature are normal.

HOSPITAL NAME

Willamette VH

The caudal pole of the right adrenal gland is visualized and is in normal size (0.80 cm in width) with a normal shape, glandular echogenicity and detail. Surrounding vasculature is normal.

Spleen

Previously splenectomized.

REFERRING VET

Dr. Neuhaus

Liver

The liver is subjectively prominent in size with slightly swollen peripheral contours. The parenchyma is isoechoic relative to the right renal cortex and homogenous in appearance. Hepatic vasculature and intrahepatic biliary tracts are of normal volume with no evidence of congestion.

INVOICE

14109

The gall bladder lumen is moderately distended. The wall is thin and smooth. A small amount of partially dependent echogenic debris/sludge is observed within the lumen. The cystic and common bile ducts are normal/not seen.

DATE

8.16.23

Gastrointestinal

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



PATIENT

Biscotti Martin

pattern. The pyloric outflow tract is patent. The small intestinal lumen is not dilated. The small intestinal wall is normal in thickness with a normal layering pattern and appropriate mural detail. Discreet masses are not identified. The colonic wall is normal. There is no evidence of an obstructive pattern.

SPECIES

Canine

Pancreas

The base and limbs of the pancreas re 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

Terrier mix

SEX

Neutered male

Free Abdomen

There is no obvious evidence of free fluid. A 2.43 x 1.22 cm medial iliac lymph node is visualized. A few prominent lymph nodes are also observed in the right cranial quadrant, one of the larger nodes measuring 1.30 cm in length. All nodes are normal in shape and echogenicity.

AGE

9 years

ULTRASONOGRAPHIC FINDINGS

Primary Findings

- Bilateral chronic nonspecific age-related renal changes

WEIGHT

68.5 lbs

Secondary Findings

- The flattened left adrenal gland may be a normal variant for this patient or may represent early atrophy (i.e., secondary to hypoadrenocorticism).
- Suspected benign diffuse hepatopathy. Vacuolar hepatopathy (i.e., idiopathic/endocrine) is suspected with a lower possibility of inflammatory disease, infiltrative neoplasia, or other hepatopathies. Correlation with the patient's liver values is recommended.
- The pancreatic changes are most consistent with age-related parenchymal remodeling, potentially secondary to a prior inflammatory episode, early fibrosis or chronic pancreatitis.
- The prominent abdominal lymph nodes are most consistent with reactive lymphadenitis or lymphoid hyperplasia. Neoplastic infiltration is considered less likely.

INTERPRETED BY

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

**IMAGING
PERFORMED BY**

Dr. Neuhaus

HOSPITAL NAME

Willamette VH

*An obvious cause for the patient's clinical signs is not definitively identified in this study. It is unclear whether the patient's positive Ehrlichia status is associated with the clinical signs, or if a separated concurrent process is the culprit.

REFERRING VET

Dr. Neuhaus

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

INVOICE

14109

- Consider three-view thoracic radiographs to assess for occult pathology in the chest.
- Given the borderline azotemia, consider the following:
 1. Urinalysis with culture and sensitivity
 2. UPC (if proteinuria is present in the absence of infection)
 3. Baseline blood pressure measurement

DATE

8.16.23

- Also consider a fecal evaluation for ova and Giardia +/- Texas GI panel including serum cobalamin and folate, TLI, PLI and resting cortisol level.
- Orthopedic and neurologic examinations are also recommended to assess for nonmetabolic causes of inappetence.



PATIENT

Biscotti Martin

SPECIES

Canine

BREED

Terrier mix

SEX

Neutered male

AGE

9 years

WEIGHT

68.5 lbs

INTERPRETED BY

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

**IMAGING
PERFORMED BY**

Dr. Neuhaus

HOSPITAL NAME

Willamette VH

REFERRING VET

Dr. Neuhaus

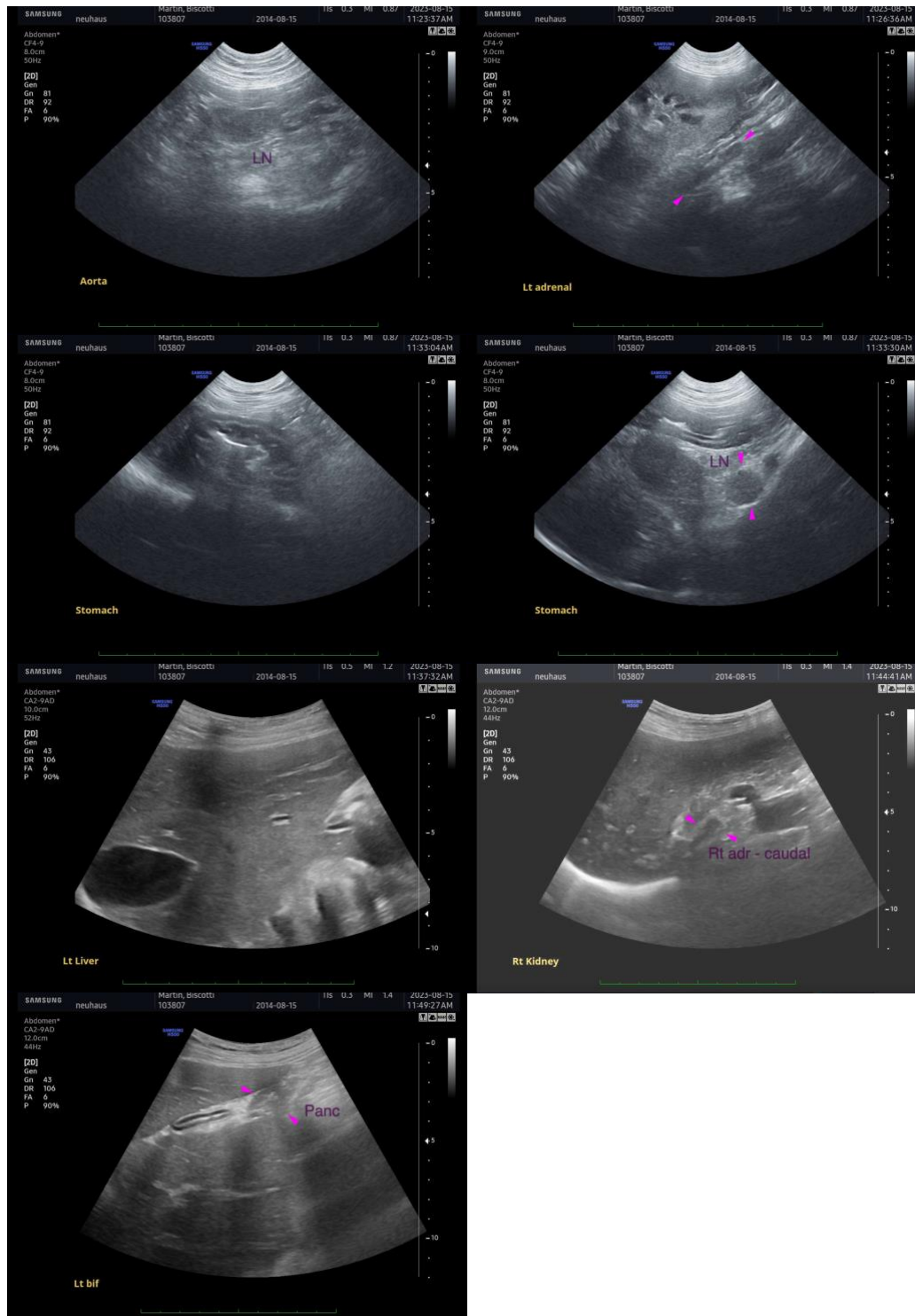
INVOICE

14109

DATE

8.16.23

- If the Ehrlichia positive status is a new finding, treatment with doxycycline may be warranted.



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.



PATIENT

Biscotti Martin

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.

SPECIES

Canine

BREED

Terrier mix

SEX

Neutered male

AGE

9 years

WEIGHT

68.5 lbs

INTERPRETED BY

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

**IMAGING
PERFORMED BY**

Dr. Neuhaus

HOSPITAL NAME

Willamette VH

REFERRING VET

Dr. Neuhaus

INVOICE

14109

DATE

8.16.23