

**DATE PRESENTING CLINICAL SIGNS**

2/10/22

PATIENT

Sasha Marshall-Kramer

History: Seizures (grand-mal, reviewed owner video) started August 2021, has one primary seizure approximately every 4 to 6 weeks but on the day of that seizure may have another 1-2 smaller ones. Patient started on phenobarbital; significant drowsy side effects on upper dose range, currently doing better on dose below.

Elevated

On exam noted a cherry red round bulbous gingival mass associated with #204, concern for oral neoplasia.

SPECIES

Canine

BREED

Boxer

SEX

Spayed Female

Current Medications: 8/9/2021 Phenobarbital 64.8 mg 2 po bid then in October decreased to 1 po bid. 11/5/2021 Proin 50 mg bid.

Lab Results: 8/9/2021 prev DVM noted elevated SDMA; follow up urine was relatively dilute. Mild increase ALP. 1/24/2022 profile CBC: increased platelets, decreased T4, increased ALP, Lipase and Amylase, USG 1.009 (suspect secondary to Pb but also cannot r/o Cushing's). Attached separately.

Date of Previous IntraPet Ultrasound: No previous IntraPet scans.

Sedation: Dexdomitor 0.015 and butorphanol 0.2 mg/kg IM

Stat Report: Not requested.

AGE

4/27/10

WEIGHT

63 Pounds

INTERPRETED BY

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MS, Diplomate ACVIM
(Small Animal Internal
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IMAGING PERFORMED BY

Rachel Brilhart RDMS

HOSPITAL NAME

Perry Hall AH

REFERRING VET

Dr. Hatzigiannakis

INVOICE

35594

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**Urinary System**

The urinary bladder is minimally distended with anechoic urine. The Bladder wall, trigone, ureteral papillae and visible urethra (to a depth of 2cm) appear normal with no evidence of wall thickening, mucosal irregularities, masses or cystic calculi. Lack of urine distention impairs interpretation of the urinary bladder.

The left kidney has a normal shape and size (6.4 cm). Overall echogenicity is normal with adequate corticomedullary distinction and a typical 1:3 cortex:medulla ratio. There is no evidence of perinephric inflammation or effusion. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

The right kidney has a normal shape and size (5.92 cm). Overall echogenicity is normal with adequate corticomedullary distinction and a typical 1:3 cortex:medulla ratio. There is no evidence of perinephric inflammation or effusion. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

Adrenal Glands

The left adrenal gland is normal in size measuring 0.76 at the caudal pole. It is observed in its normal position cranial to the left renal artery. It is normal in appearance (uniformly hypoechoic) and shape with no evidence of a mass effect.

The right adrenal gland is borderline large in size measuring 1.02 at the caudal pole. It is observed in its normal position between the cranial aspect of the right kidney and the caudal vena cava. It is normal in appearance (uniformly hypoechoic) and shape with no evidence of a mass effect.

Spleen

The spleen is subjectively normal in size, echotexture is homogenous, and the splenic capsule is smooth with no irregularities. The blood flow through the hilus and splenic parenchyma appears normal. No focal parenchymal abnormalities are visualized.

Liver

The liver is large in size, and normal in echogenicity with smooth peripheral margins. The parenchyma is heterogenous in echotexture with subtle, indistinct focal mottling. The visible portions of the vasculature and biliary tract appear normal. No focal nodules or cystic lesions are observed.

The gallbladder lumen is moderately distended. The wall of the gall bladder is not thickened and has a smooth mucosal surface. Luminal contents are primarily anechoic. The cystic and common bile ducts are normal/not visible.

Gastrointestinal

The stomach is moderately dilated with fluid and irregular shadowing material most consistent with normal ingesta and gas. It measures at a normal thickness of <0.7cm with some variability due to the presence of rugal folds. The distinction of the gastric wall layering is adequate and there is no impression of reduced peristaltic activity. No masses or focal lesions were observed.

The visualized areas of duodenum, jejunum and ileum have a relatively uniform diameter with minimal fluid distension. Wall thickness is normal. Bowel loops follow a curvilinear path with distinct wall layering maintaining the typical 1:3 muscularis:mucosa layer ratio. The duodenum measured as normal (between 0.3-0.5cm in wall thickness) and the jejunum measured as normal (between 0.2-0.47cm.) Visualized peristalsis appears appropriate. There were no focal lesions consistent with obstruction or a mass effect observed.

The ileocecal junction was visualized and exhibited normal intact wall layering and is subjectively of normal thickness. Sections of colon are visualized with formed fecal material and gas shadowing distally. There is no observed focal or generalized colon wall thickening or loss of layering.

Pancreas

The area of the pancreas is normal and isoechoic to surrounding mesentery. There is no evidence of nodules or cystic lesions. There is no evidence of regional mesenteric inflammation or fluid.

Free Abdomen

Evaluation of the peritoneal cavity did not reveal any evidence of effusion, or subjective lymphadenomegaly. The Medial iliac nodes appear normal and there was no evidence of a caudal aortic thrombus at the bifurcation. The omentum is of normal uniform echogenicity.

Other

A brief view of the heart was submitted. No significant pericardial effusion was seen.

PRIMARY FINDINGS

- Large, heterogeneous liver – The diffuse hepatic changes are non-specific and could be consistent with vacuolar hepatopathy, nodular hyperplasia, inflammatory/immune-mediated disease, fibrosis, extramedullary hematopoiesis, toxic hepatopathy (e.g., copper), infiltrative neoplasia (less likely) or other hepatopathy.
- Borderline bilateral adrenomegaly – The bilateral adrenomegaly could be consistent with bilateral hyperplasia (e.g., secondary to pituitary-dependent hyperadrenocorticism), bilateral infiltrative neoplasia, inflammatory adrenal disease, other. Correlation with clinical findings is recommended.

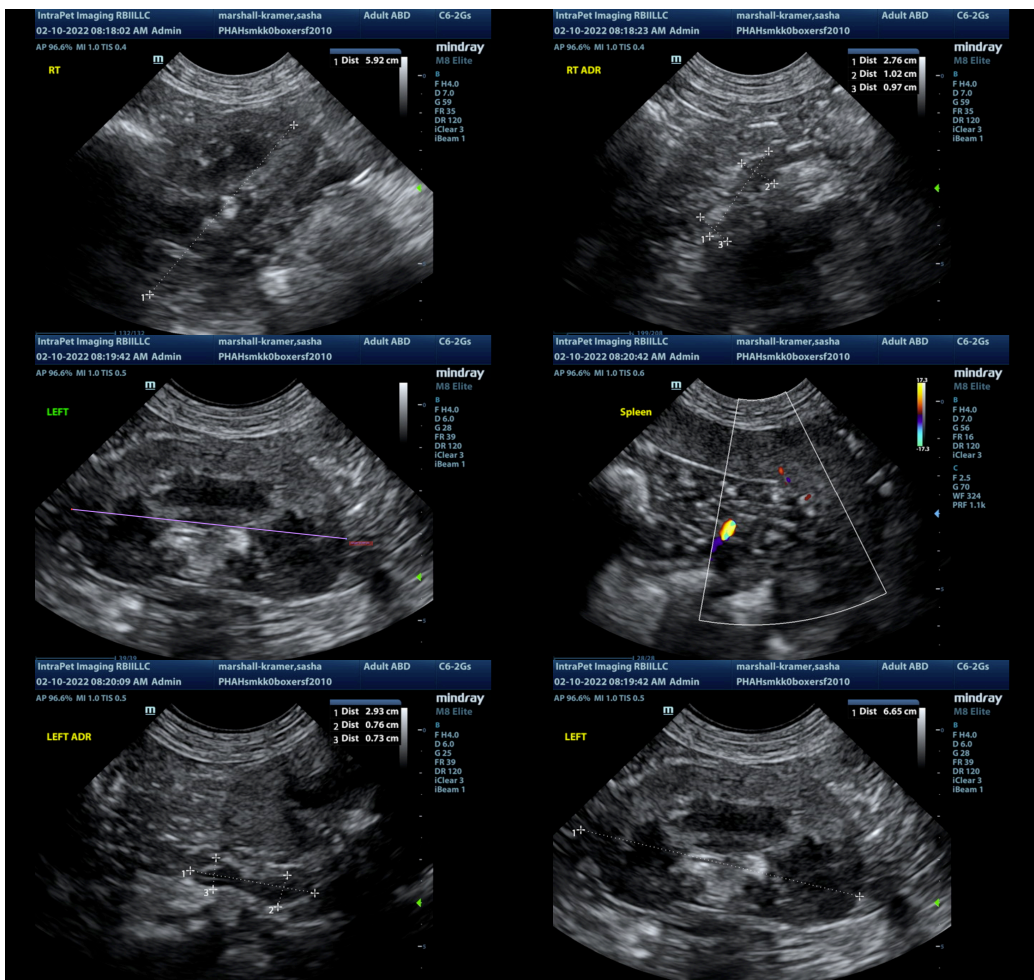
SECONDARY FINDINGS

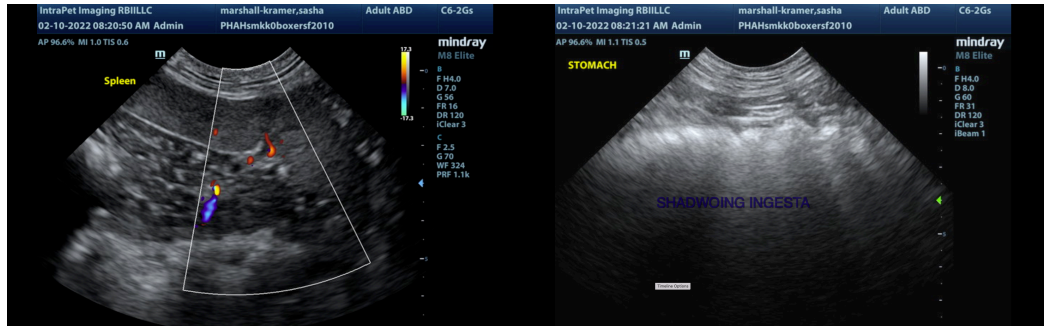
- Moderate shadowing ingesta within the gastric lumen – Correlate with feedings history and abdominal radiographs. If adequately fasted then consider such differentials as delayed gastric emptying or a partial outflow tract obstruction (none visualized).

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Today's scan was relatively normal. There are some hepatic changes evident, but these could be at least partially due to the Phenobarbital therapy. Both adrenal glands are plump. If signs of Cushing's are present (prior to starting the Phenobarbital), then you could consider adrenal function testing with caution to interpret in light of the increased stress due to seizures. Recommend blood pressure evaluation.

If the side effects of Phenobarbital are significant, you could consider an alternate anti-seizure medication, which would have less side effects, such as Keppra or Zonisamide. Recommend consultation with a veterinary neurologist.





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.

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