**PATIENT**

Penny Nee

PRESENTING CLINICAL SIGNS

History: Lethargy, inappetence, was hospitalized at ER, and liver value elevation.
 Abnormal PE/Chem/CBC/UA Results: (03/17/2022) pO2 21.7, O2SAT 36%, BE(ecf) -6.8. U/A: USG >1.050, pH 7.0, PRO 500, BLD 250. (03/15/2022) CBC: WBC 19.2, Neutrophils 16013, Monocytes 1574. CHEM: GLU 60, ALP 192, Potassium 3.9. T4 0.8.

SPECIES

Canine

BREED

Shi-poo

SEX

Female, spayed

AGE

8 Yrs.

WEIGHT

9 Pounds

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**Urinary System**

The urinary bladder, trigone, and pelvic urethra are normal in thickness and the mucosal surface is smooth. The bladder lumen is mildly distended. A small amount of suspended echogenic debris is observed within the lumen. No masses, inflammatory changes or calculi are observed. Ureteral papillae and visualized portion of the proximal urethra, visible to a depth of 2 cm, are normal.

The left kidney is normal size (3.53 cm in length); normal shape and architecture with smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with normal corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

The right kidney is normal size (3.67 cm in length); normal shape and architecture with smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with normal corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

Adrenal Glands

The left adrenal gland is normal size (0.40 cm at cranial pole) (0.39 cm at caudal pole) (1.49 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.

The right adrenal gland is normal size (0.28 cm at cranial pole) (0.36 cm at caudal pole); 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.

Spleen

The spleen is subjectively prominent in size (1.44 cm in width at the level of the hilus) with slightly swollen peripheral contours. The parenchyma is diffusely mottled, bordering on a "moth-eaten" appearance. A 0.98 x 0.66 cm ill-defined hyperechoic area is observed in the region of the hilus. Splenic vasculature appears normal with no evidence of thrombosis.

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. 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/not seen.

Gastrointestinal**INTERPRETED BY**

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

IMAGING PERFORMED BY

PMVU

HOSPITAL NAME

Silver Spring AH

REFERRING VET

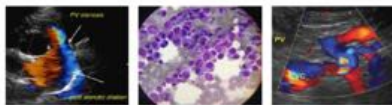
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3/22/22

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Penny Nee

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 pattern. The pyloric outflow tract is patent. The small intestinal lumen is not dilated. The small intestinal wall thickness is normal with a normal layering pattern and appropriate mural detail. Discreet masses are not identified. The ileocecal colic junction and colonic wall are normal. The lumen of the descending colon is distended (1.76 cm in diameter) with loose, granular appearing fecal material with some small shadowing structures. No obstructive disease is noted.

SPECIES

Canine

Pancreas**BREED**

Shi-poo

The region of the pancreas is isoechoic relative to surrounding omental fat. No obvious parenchymal abnormalities are observed. There is no evidence of regional inflammation or effusion.

SEX

Female, spayed

Free Abdomen

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

AGE

8 Yrs.

ULTRASONOGRAPHIC FINDINGS**WEIGHT**

9 Pounds

- The splenic changes are concerning for infiltrative neoplasia (i.e., lymphoma, mast cell disease). However, a benign process such as antigenic stimulation, lymphoid hyperplasia, splenitis or extramedullary hematopoiesis cannot be completely excluded.

INTERPRETED BY

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

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

- Three-view thoracic radiographs are recommended to assess for occult disease in the chest.
- Consider a fine needle aspirate of the spleen, if clotting status is appropriate. If cytology results are inconclusive, a more advanced workup (i.e., malabsorption panel, infectious disease testing, other) may be warranted.
- Given the hypoglycemia, a repeat blood glucose is recommended using a glucometer to determine if this finding is persistent. If so, additional diagnostics (i.e., pre- and post-prandial serum bile acids, insulin glucose ratio, ACTH stimulation test) may be necessary to further identify causes for hypoglycemia.

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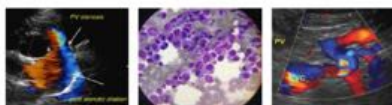
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PATIENT

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SPECIES

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Shi-poo

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AGE

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Andrea Nicastro,
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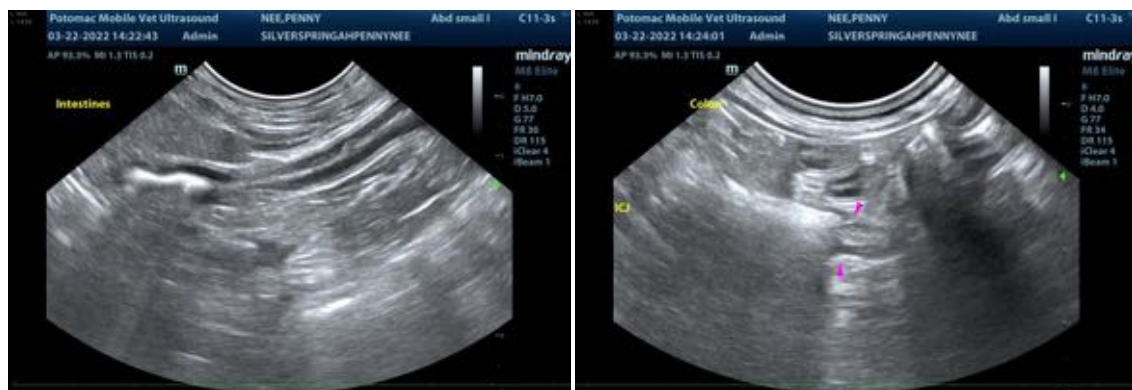
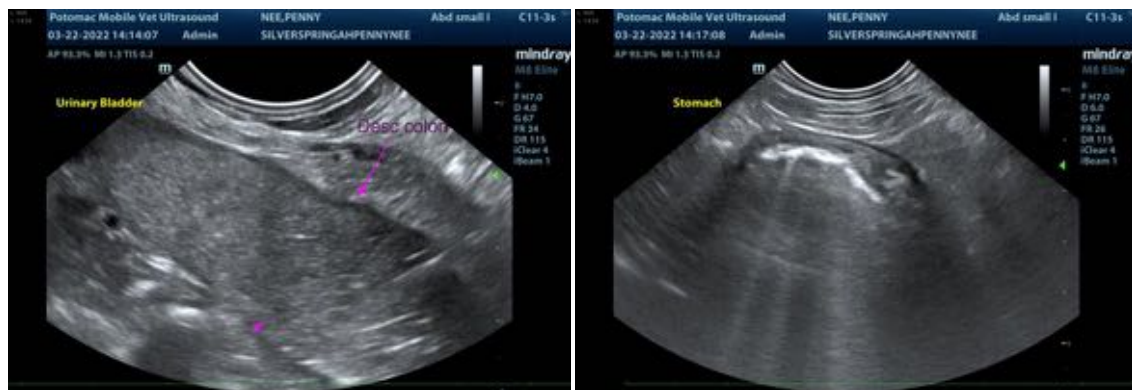
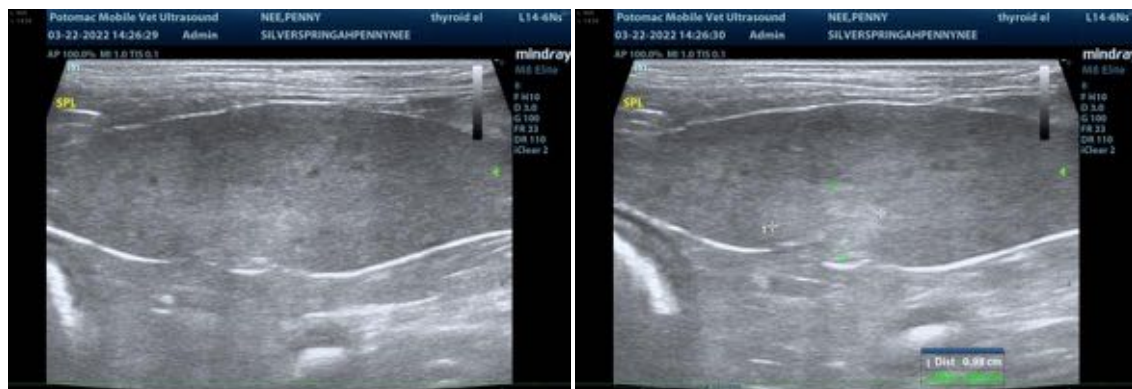
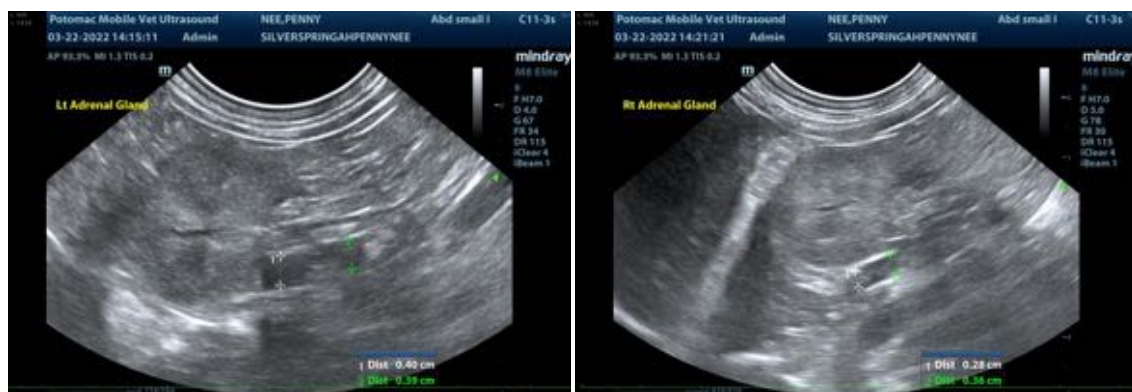
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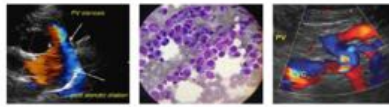
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The information and recommendations provided are based on the images presented by the referring



PATIENT

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veterinarian. 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.

SPECIES

Canine

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

BREED

Shi-poo

Andrea.nicastro@sonopath.com

SEX

Female, spayed

AGE

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WEIGHT

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