



PATIENT PRESENTING CLINICAL SIGNS

Bella Rodgers History: Elevated liver enzyme activity.

SPECIES Physical Examination: N/A.

Canine Urinalysis: N/A.

CBC: N/A.

BREED Serum Biochemistry: Elevated liver enzyme activity.

Shih Tzu Radiographic Findings: N/A.

SEX ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

FS **Urinary System**

Age Full urinary bladder with a normal thickness appearance of the wall. Normal anechoic urine with 13 years no sediment or uroliths evident.

WEIGHT Normal trigone area, proximal urethra (0.3 cm), and iliac blood vessels.

15 # Normal iliac lymph nodes (1.2 cm). Ureters not visualized.

Normal renal size (left 4.2 cm, right 4.5 cm) with increased echogenic appearance, some loss of cortico-medullary differentiation, and normal pelvis and capsule.

INTERPRETED BY **Reproductive System**

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N/A.

Adrenal Glands

IMAGING PERFORMED BY

Sonya Myers, DVM

Left gland – normal position, echogenic appearance, and shape but enlarged (0.8/0.87 cm). Hyperechogenic parenchymal nodule (0.6 x 0.8) in the caudal pole.

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Right gland – normal position, echogenic appearance, shape, and size (0.47/0.7 cm).

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Spleen

REFERRING VET

Dr Rivera

Normal size and echogenic appearance. Smooth homogenous parenchyma, regular curvilinear capsule, and normal vasculature. No evidence of inflammatory, neoplastic, infarction, or infiltrative changes noted.

Liver

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Enlarged with rounded edges, hyperechogenic appearance, some loss of portal markings, and regular curvilinear capsule. No nodules or masses evident. FNA taken with no obvious aspirate hemorrhage. Full gall bladder normal anechoic bile. Normal thickness and echogenic appearance of the gall bladder wall. Normal bile duct (0.2 cm).

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PATIENT

Gastrointestinal

Bella Rodgers

Normal appearance of the duodenum, small intestine, and colon with no loss of layering, normal wall thickness (duodenum 0.43 cm, jejunum 0.31 cm, colon 0.12 cm) and peristaltic activity, and no distension of the lumen. Segmental thickening of the stomach (0.71 cm). Hypoechoic mural nodule (1.7 x 1.7 cm) in the cardia of the stomach. Irregular hypoechoic mass (2.1 x 2.7 cm) in the ileo-cecal junction with gas migration present in the wall. FNA taken with no obvious aspirate hemorrhage.

SPECIES

Canine

BREED

Shih Tzu

Pancreas

Normal size (1 cm) and echogenic appearance and irregular capsule. Normal echogenic appearance of the mesentery and fat surrounding the pancreas.

SEX

FS

Free Abdomen

Age

13 years

Normal mesenteric lymph nodes (2.3 cm)
No ascites.
Small amount of free abdominal gas.

WEIGHT

15 #

ULTRASONOGRAPHIC FINDINGS

Primary Findings:

- Ileo-cecal mass.
- Hepatopathy.
- Left adrenomegaly
- Left adrenal nodule.
- Gastric nodule.
- Gastritis.

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Secondary Findings:

- Age-related renal changes.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

REFERRING VET

Dr Rivera

Etiologies for the ileo-cecal mass would be neoplasia, granuloma, foreign body; and as there is gas within the wall and free gas in the abdomen, perforation has occurred.

Etiologies for the liver would be reactive, hyperplasia, vacuolar, metabolic, chronic hepatitis, and infiltrative neoplasia.

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Etiologies for the adrenomegaly would be disease stress and pituitary-dependent Cushing's.

Etiologies for the adrenal nodule would be incidental non-functional adenoma, functional adenoma, and emerging carcinoma.

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Etiologies for the gastric nodule would be hyperplasia, polyp, granuloma, and neoplasia.

Etiologies for the gastritis would be non-specific gastritis, inflammatory bowel disease, helminths, *Helicobacter* gastritis, ulcerative disease, granulomatous disease, and neoplasia.



PATIENT

Bella Rodgers

SPECIES

Canine

BREED

Shih Tzu

SEX

FS

Age

13 years

WEIGHT

15 #

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Further assessment needs to be based on the pending cytology results but could include 3-view thoracic radiographs and laparotomy; the latter potentially being both diagnostic and therapeutic as well as allowing removal of the gastric nodule and obtaining a wedge biopsy of the liver and full thickness biopsies of the stomach. Further assessment that could also be considered would be adrenal function testing (ACTH stimulation/LDDS test).

Specific therapy would be dependent on an etiological diagnosis.

IMAGES

Ileo-cecal junction





PATIENT Liver

Bella Rodgers

SPECIES

Canine

BREED

Shih Tzu

SEX

FS

Age

13 years

WEIGHT

15 #

Stomach

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PATIENT Left adrenal

Bella Rodgers

SPECIES

Canine

BREED

Shih Tzu

SEX

FS

Age

13 years

WEIGHT

15 #



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The information and recommendations provided are based on the images presented by the referring 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.

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