



PATIENT PRESENTING CLINICAL SIGNS

Bubbles Everett

History: Bubble presented on 3.17.22 for raisin ingestion. Emesis was induced and all the raisins were found in the vomitus. The owners opted outpatient care and monitoring renal values. Elevated ALP was found incidentally on the 17th, and it has persisted as the renal values were rechecked. Physical exam WNL

SPECIES

Canine

Abnormal PE/Chem/CBC/UA Results: ALP (280)

BREED

Boxer X

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

SEX

Spayed Female

Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3.0 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with no uroliths or sediment. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes were noted.

AGE

2 Years

Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio and normal corticomedullary definition were maintained. The echogenicity of the cortex was similar to or slightly less than normal liver parenchyma while the medulla echogenicity was hypoechoic to the cortex with no evidence of pelvic dilation. The left kidney measured 6.2 cm in length. The right kidney measured 6.6 cm in length.

WEIGHT

50.9 Pounds

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.48 cm width at the caudal pole and 0.49 cm width at the cranial pole.

The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.65 cm width at the caudal pole and 0.63 cm width at the cranial pole.

IMAGING PERFORMED BY

Sara Hansen

Spleen

The spleen exhibited a finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. The capsule was smooth and regular without apparent expansion. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis. Acute to chronic inflammatory, neoplastic, or benign parenchyma changes were not noted.

HOSPITAL NAME

West Eugene AH

Liver

The liver exhibited potential for mild subnormal size with normal structure and contour. The liver parenchyma was uniform and hypoechoic to the spleen with a mild coarse echotexture. The hepatic and portal vasculature were normal in appearance without signs of congestion.

REFERRING VET

Dr. Sundholm

INVOICE

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The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal.

DATE

3/28/22

Gastrointestinal



PATIENT

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The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach contained moderate ingesta, exhibiting progressive distal acoustic shadowing, without signs of obstruction or foreign material.

SPECIES

Canine

The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. The lumen of the small intestine was empty with no signs of ileus, obstruction or foreign material.

BREED

Boxer X

Normal visible colon wall layers were present with apparent formed feces in lumen.

SEX

Spayed Female

Pancreas

The parenchyma of the left limb, body and right limb of the pancreas presented isoechoic to the adjacent omental fat. A normal curvilinear capsule contour of the pancreas was present. The visible pancreatic duct was normal. No signs of active inflammation or neoplastic disease was evident.

AGE

2 Years

Other

No evidence of pathology in the area of the uterine remnant or aortic trifurcation.

WEIGHT

50.9 Pounds

ULTRASONOGRAPHIC FINDINGS

- Normal liver structure with potential mild subnormal liver size
- Normal gallbladder
- Normal bilateral adrenal glands

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The sonographic appearance of the liver was nonspecific yet consistent with low-grade benign hepatopathy. The potential mild subnormal liver size in this patient is not considered pathological and may be a normal patient variant and without evidence of a portosystemic vascular anomaly. The mild ALP elevation may indicate nonspecific yet low grade metabolic, reactive or idiopathic vacuolar hepatic changes without evidence of inflammatory criteria given the lack of concurrent ALT elevation.

**IMAGING
PERFORMED BY**

Sara Hansen

Conservative monitoring at this stage with hepatosupportive medications, including Denamarin and Ursodiol and further monitoring of ALP elevation, as well as for additional hepatic enzyme elevation, would be reasonable. Hepatic functionality is assumed to be normal, if normal albumin, glucose, BUN and cholesterol levels.

HOSPITAL NAME

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Recheck ultrasound suggested if persistent/progressive ALP elevation or if additional hepatic enzyme elevation is noted.

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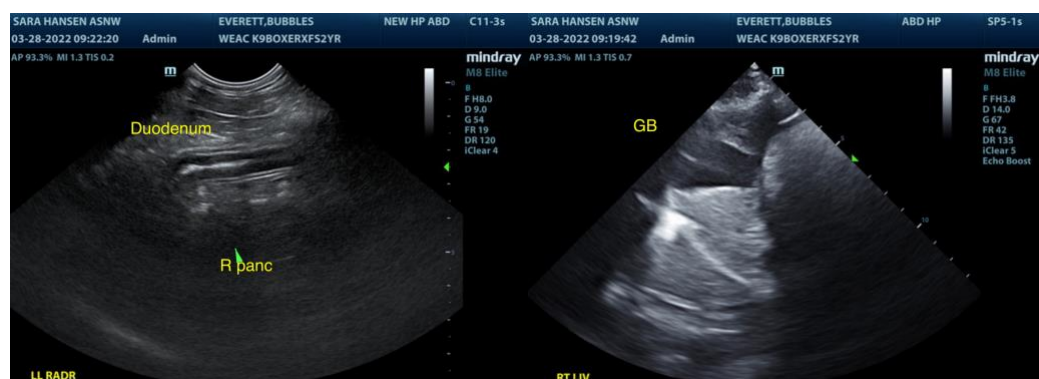
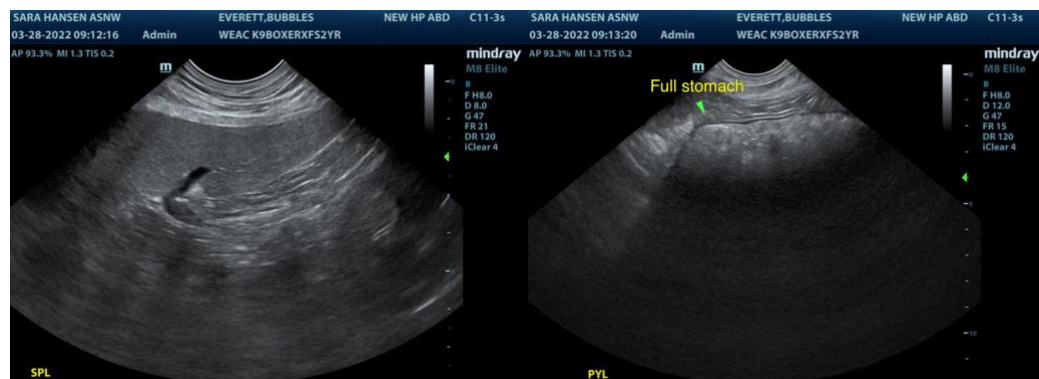
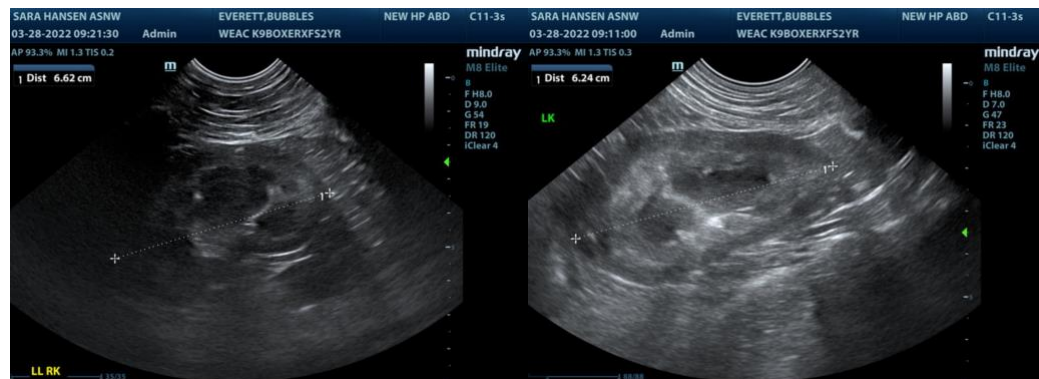
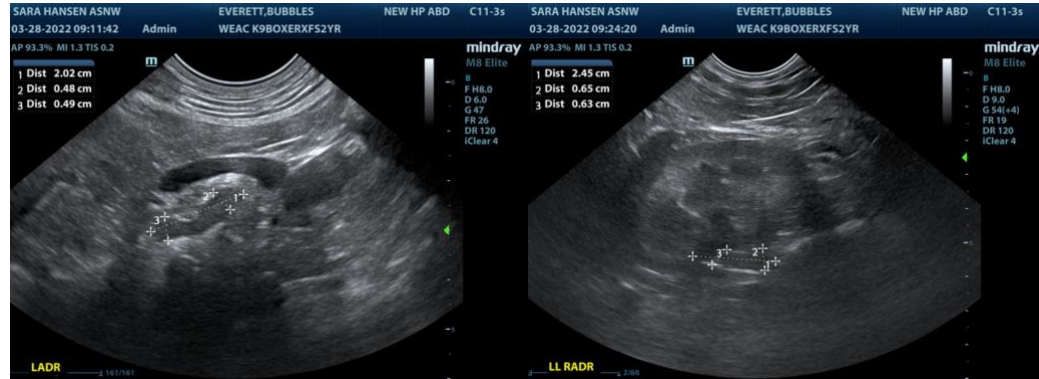
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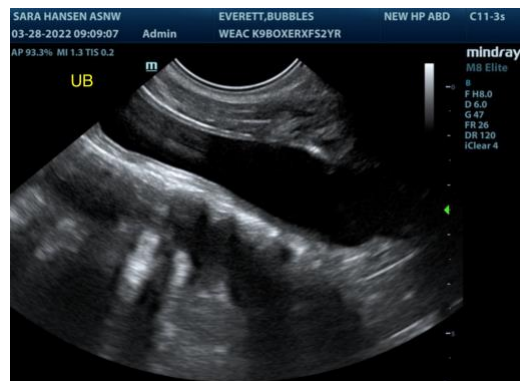
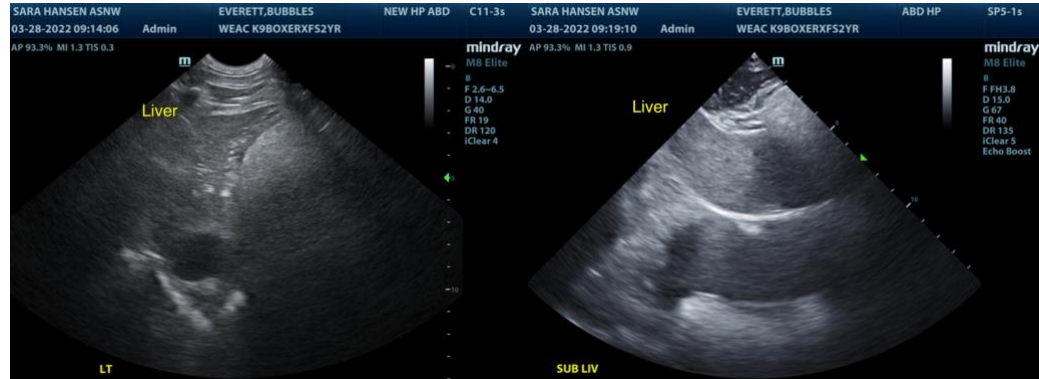
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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