



PATIENT

Olive Cope

SPECIES

Canine

BREED

Labrador Retriever

SEX

Spayed Female

AGE

12 Years

WEIGHT

76.2 Pounds

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Carlos Abdul-Chani

HOSPITAL NAME

Byram AH

REFERRING VET

Dr. Carlos Abdul-Chani

INVOICE

14399

DATE

3/21/22

PRESENTING CLINICAL SIGNS

History: Reasons for ultrasound: Elevated pancreatic and renal values CBC/Chem findings: CBC = Normal; chem ALT = 140 BUN 38 Cr. = 2.1 Amyl = 2279 CPL = 640; Rest is WNL Urinalysis findings: Pending

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The **bladder** in this patient was mildly thickened with slight echogenic mural changes. No calculi or masses were noted. Slight micropolypoid changes were noted. This is a frequent finding in older animals and may be linked to a history of chronic urinary tract infection or active urinary tract infection. Urinalysis would be recommended with culture if any evidence of inflammatory sediment is present. The region of the trigone and visible pelvic urethra were normal. This is a minor change.

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some mild to moderate age-related loss of curvilinear patterns regarding the capsule and C/M junction. The cortices presented largely uniform texture with some increased echogenicity expected for his age patient. Medullary structure differed distinctly from that of the cortex. Minor pyelectasia was noted. The right kidney measured 6.77 cm. The left kidney measured 5.0 cm. Blood flow to the kidneys appeared to be adequate on power doppler assessment.

Adrenal Glands

Both **adrenal glands** were visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. The left adrenal gland measured 2.53 cm x 0.69 cm at the cranial pole and 0.79 cm at the caudal pole. The right adrenal gland measured 2.42 cm x 0.43 cm at the cranial pole and 0.74 cm at the caudal pole.

Spleen

The **spleen** presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The capsule was smooth without noticeable expansion or deviation from within the spleen or adjacent pathology. The splenic vasculature demonstrated normal volume without signs of congestion or thrombosis. No sonographic evidence of acute or chronic inflammatory, neoplastic, or infarctual changes were noted.

Liver

The **liver** images from right and left intercostal as well as subcostal views revealed subjectively normal liver size, contour, and structure. Some minor age-related parenchymal remodeling was noted but likely not clinically significant at this time. Vascular tracts were of normal volume and no evidence of congestion was noted.

The **gallbladder** was mildly over distended with minor suspended and dependent debris, yet not to the level of emerging mucocele, yet sludge appears to be mildly excessive. No adjunctive inflammation was noted.

Gastrointestinal



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The **stomach** was mildly edematous with hypertrophied muscularis with empty lumen. The small intestine and colon were unremarkable.

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Pancreas

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The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Some parenchymal remodeling, however, with mild deviation from curvilinear normalcy was observed. Pancreatic duct and capsular irregularities were present consistent with age related changes. If pain upon imaging (+ Murphy sign) was present or if the patient is focally painful in subxyphoid palpation then low-grade smoldering chronic pancreatitis should be suspected.

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ULTRASONOGRAPHIC FINDINGS

SEX

- The kidneys appear to have mild to moderate degenerative changes. They do not appear end stage. Complicating factors, such as UTI, leptospirosis, hypertension and pre-renal disease should all be considered.
- Cystitis bladder pattern
- Mild gastritis pattern
- Minor pancreatitis is possible, yet changes were minimal
- Age-related hepatic changes
- Gallbladder sludge

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

72-hour IV fluid protocol, urine culture and blood pressures all indicated. No evidence of neoplasia.

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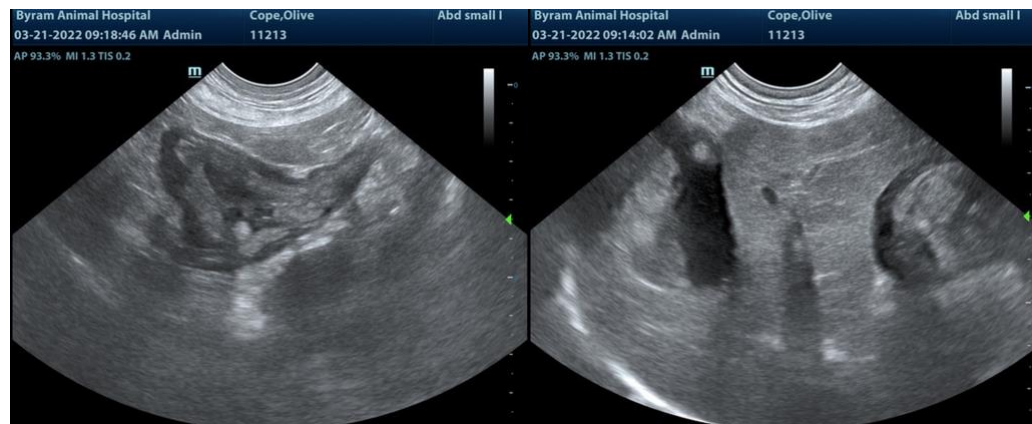
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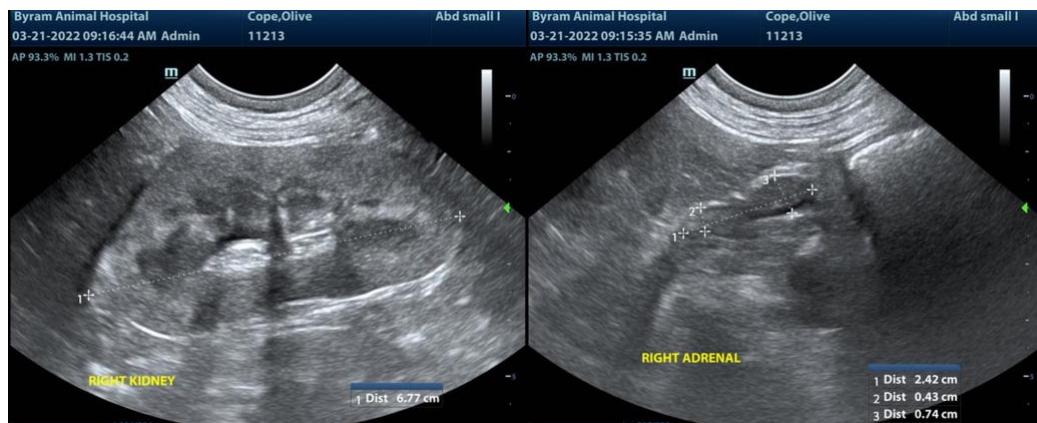
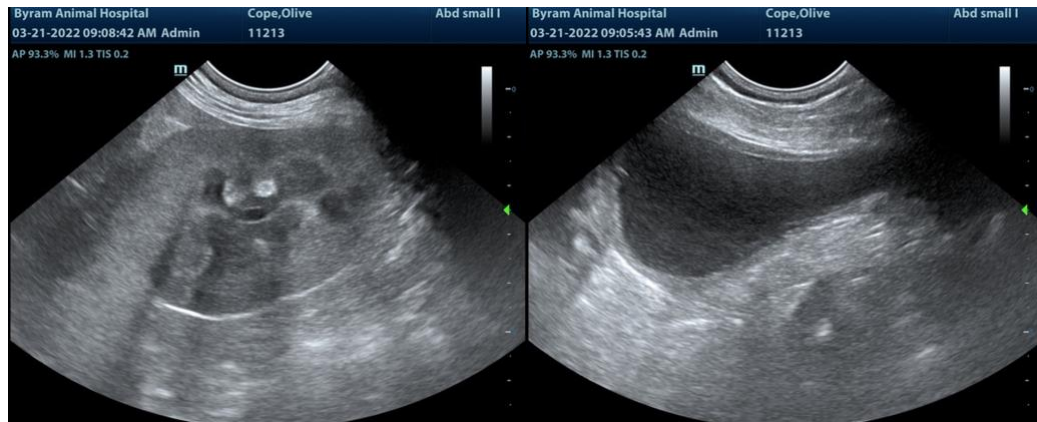
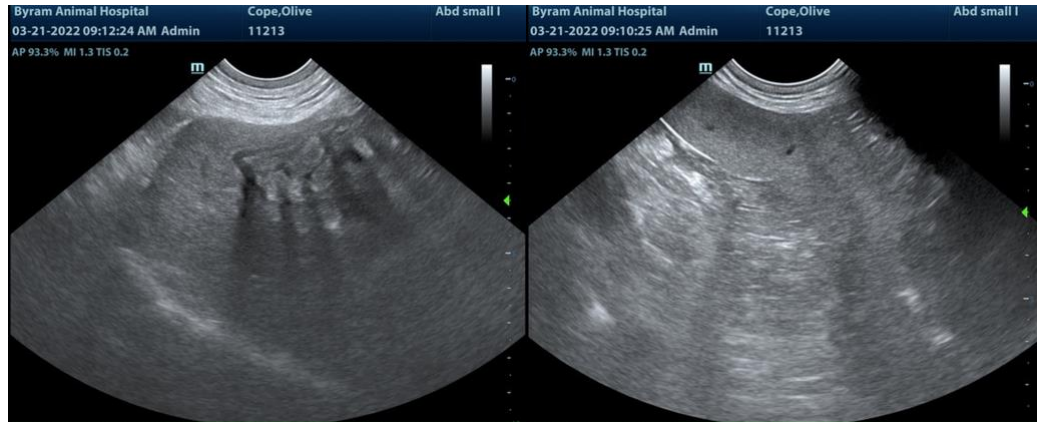
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Eric Lindquist, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com
info@SonoPath.com