



## PATIENT

Max Jones

## SPECIES

Canine

## BREED

Labradoodle

## SEX

Neutered Male

## AGE

12 Years

## WEIGHT

75 lbs

## INTERPRETED BY

Greg Kuhlman, DVM,  
DACVIM (SAIM)

## IMAGING PERFORMED BY

Dr. Mueller

## HOSPITAL NAME

Cold Lake Veterinary  
Clinic

## REFERRING VET

Dr. Mueller

## INVOICE

73820

## DATE

3/19/26

## PRESENTING CLINICAL SIGNS

Bloodwork in November showed increased ALT, ALKP and GGT. Recheck bloodwork in March shows mild hyperglobulinemia. ALT, ALKP and GGT continue to increase. Mild hypercholesterolemia. PU/PD and panting at night. On librela, no other medications. Concern for hyperadrenocorticism but also other causes of liver elevations.

Abnormal PE/Chem/CBC/UA Results: Recheck bloodwork in March shows mild hyperglobulinemia. ALT, ALKP and GGT continue to increase.

## ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

### *Urinary System*

The bladder is moderately distended with anechoic urine. No uroliths are seen. The bladder wall is normal in appearance and thickness. No masses are seen. No papillae seen. The urethra appears normal.

The prostate is not clearly visualized.

The right kidney presents normal size (approximately 5.7 cm) with normal shape and architecture. Normal corticomedullary distinction. No pyelectasia, ureteral dilation or nephrolithiasis.

The left kidney presents normal size (6.6 cm) with normal shape and architecture. Normal corticomedullary distinction. No pyelectasia, ureteral dilation or nephrolithiasis.

### *Adrenal Glands*

The adrenal glands appear normal in size and appearance. However, it was not possible obtain measurements in these images.

### *Spleen*

The spleen is normal in size, shape, margination and echogenicity. No masses are seen.

### *Liver*

The liver is normal in size with normal echogenicity. Diffusely it has a mildly mottled echotexture.

The gallbladder presents normal size with anechoic contents. Normal gallbladder wall. No evidence of bile duct distention or obstruction.

### *Gastrointestinal*

The stomach and intestines have normal wall layering and thickness. Colon contains normal contents with normal wall thickness.

### *Pancreas*

The pancreas is mildly diffusely hypoechoic with no surrounding hyperechoic fat.

### *Free Abdomen*

There are no enlarged abdominal lymph nodes seen on this exam. No free abdominal fluid is seen.



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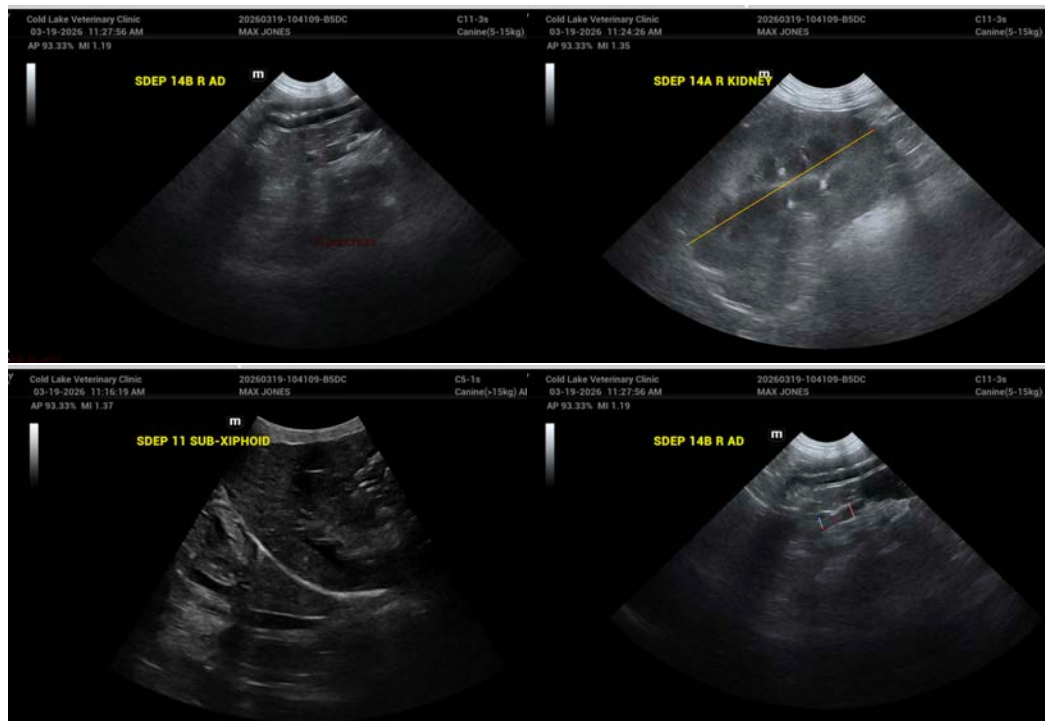
## ULTRASONOGRAPHIC FINDINGS

- Mildly mottled liver – Likely age related. However, I cannot rule out possible infiltrative neoplasia such as lymphoma or mast cell disease.
- Mildly hypoechoic pancreas.

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Recommend fine needle aspirate of liver for cytology to rule out a neoplastic cause. If neoplasia is ruled out, then the appearance of the liver is most likely age related. However, given the elevating liver values, if neoplasia is ruled out, then at that time recommend considering a liver biopsy for histopathology, copper quantitation, and aerobic and anaerobic bacterial culture.

Recommend submitting cPLI to screen patient further for the possibility of pancreatitis as the cause of the elevated liver values, causing an extrahepatic biliary duct obstruction.





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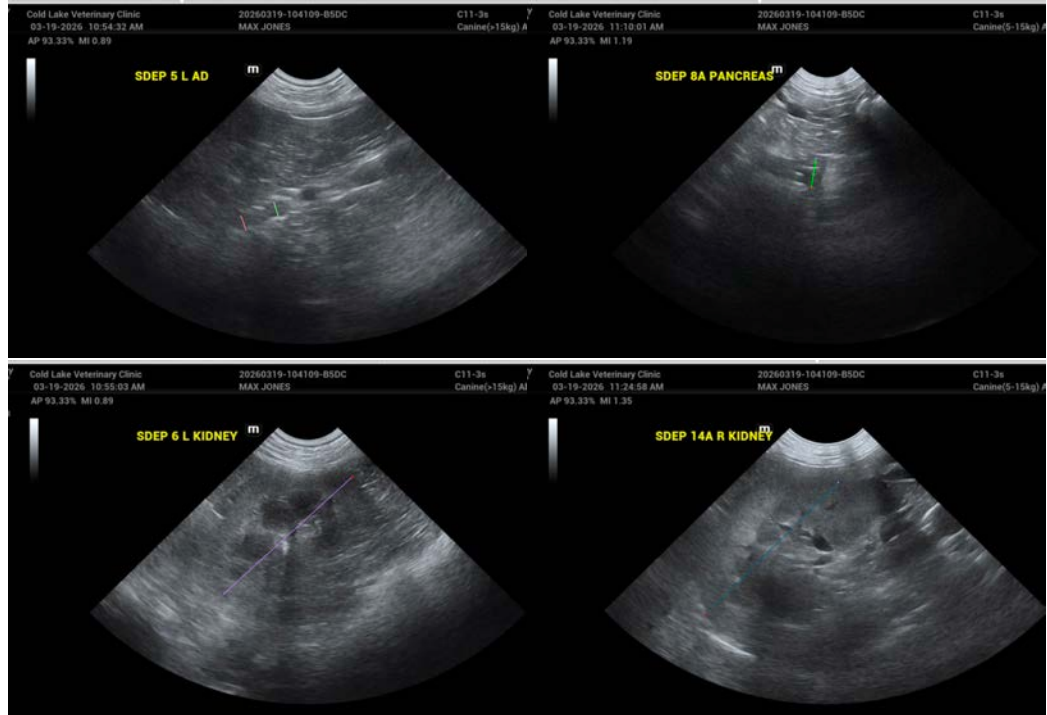
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Greg Kuhlman, DVM, DACVIM (SAIM)

Veterinary Internal Medicine Specialist  
[info@SonoPath.com](mailto:info@SonoPath.com)