



PATIENT

Jughead Jones

SPECIES

Canine

BREED

Chihuahua Mix

SEX

Neutered male

AGE

8 years

WEIGHT

18.5 lbs

INTERPRETED BY

Remo Lobetti, BVSc,
MMedVet (Med),
PhD, Dipl. ECVIM

IMAGING PERFORMED BY

Carly Pate

HOSPITAL NAME

VCA McKenzie AH

REFERRING VET

Dr. Arpaia

INVOICE

73786

DATE

3/24/26

PRESENTING CLINICAL SIGNS

- P presented January 2026 for increased thirst and urination, and increased aggression. January labwork showed elevated ALT/ALP/Triglycerides, started on Denamarin and GI Low Fat diet. Abdominal US recommended and pursued today, along with thoracic/abdominal screening radiographs.
- 1/23/26 ALT (SGPT) 120 12 - 118 IU/L ALK PHOS 1810 5 - 131 TRIGLYCERIDE 1066 Urine Protein 3+

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder is full with a normal thickness and smooth appearance of the wall. Normal anechoic urine with no sediment present. A small urolith measuring 0.4 cm is evident.

Normal appearance of the trigone area, proximal urethra, and iliac blood vessels.

Normal appearance and size of the iliac lymph nodes. Ureters not visualized, which can be considered a normal finding.

Normal renal size (left measured 5.0 cm, right measured 5.4 cm), architecture, echogenic appearance, cortico-medullary differentiation, which maintains a 1:3 cortex to medulla ratio, pelvis, and capsule. No infarcts, mineralization or renoliths evident. Normal color flow pattern is evident in both kidneys.

The prostate is small and hypoechogenic.

Adrenal Glands

Normal shape, echogenic appearance, size, position, and appearance of the visible peri-adrenal vasculature. Left adrenal gland measured 0.69 cm and 0.61 cm in width. The right adrenal gland measured 0.46 cm and 0.62 cm in width.

Spleen

Normal size and echogenic appearance. Smooth homogenous parenchyma and regular curvilinear capsule. Normal volume of the splenic vasculature without any overt congestion or thrombosis evident. No inflammatory, neoplastic, infarction, or infiltrative changes evident. The spleen measured 1.4 cm in width.

Liver

The liver is enlarged with rounded edges, diffuse increased echogenic and coarse appearance, normal portal markings, and regular curvilinear capsule. No nodules or masses evident. Normal appearance of the hepatic and portal vasculature.



PATIENT

Jughead Jones

SPECIES

Canine

BREED

Chihuahua Mix

SEX

Neutered male

AGE

8 years

WEIGHT

18.5 lbs

INTERPRETED BY

Remo Lobetti, BVSc,
MMedVet (Med),
PhD, Dipl. ECVIM

IMAGING PERFORMED BY

Carly Pate

HOSPITAL NAME

VCA McKenzie AH

REFERRING VET

Dr. Arpaia

INVOICE

73786

DATE

3/24/26

Gallbladder

The gallbladder is small containing normal anechoic bile. Normal thickness and echogenic appearance of the wall. Normal size and appearance of the cystic and common bile duct.

Gastrointestinal

Normal appearance of the stomach, duodenum, small intestine, ileo-cecal junction, and colon with no loss of layering, 1:3 muscularis to mucosa ratio, normal wall thickness and peristaltic activity, and no distension of the lumen. The stomach measured 0.61 cm, duodenum measured 0.39 cm, small intestine measured up to 0.46 cm.

Pancreas

The visible sections of the pancreas are of normal size and echogenic appearance with a regular capsule. Normal echogenic appearance of the mesentery and fat surrounding the pancreas.

Free Abdomen

Normal mesenteric lymph nodes.

No ascites evident.

Thorax

Normal appearance of the heart. No pericardial or pleural effusion evident.

ULTRASONOGRAPHIC FINDINGS

- Hepatopathy.
- Urolith.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Etiologies for the hepatopathy would be reactive hyperplasia, vacuolar and metabolic with hepatitis and infiltrative neoplasia highly unlikely differential diagnosis.

Although the adrenal glands appear ultrasonographically normal, with the resending clinical signs and elevated ALP activity, pituitary dependent Cushing's disease should still be considered.

Further assessment would be urine specific graity and a urine to cortisol to creatinine ratio and if abnormal then adrenal function testing (ACTH stimulation/LDDST) would then be indicated.

If Cushing's disease has been excluded then further assessment of the hepatopathy would be FNA cytology; however, a tru cut or wedge biopsy may be required for a final etiological diagnosis.



PATIENT

Specific therapy would be dependent on an etiological diagnosis.

Jughead Jones

SPECIES

Canine

BREED

Chihuahua Mix

SEX

Neutered male

AGE

8 years

WEIGHT

18.5 lbs

INTERPRETED BY

Remo Lobetti, BVSc,
MMedVet (Med),
PhD, Dipl. ECVIM

IMAGING PERFORMED BY

Carly Pate

HOSPITAL NAME

VCA McKenzie AH

REFERRING VET

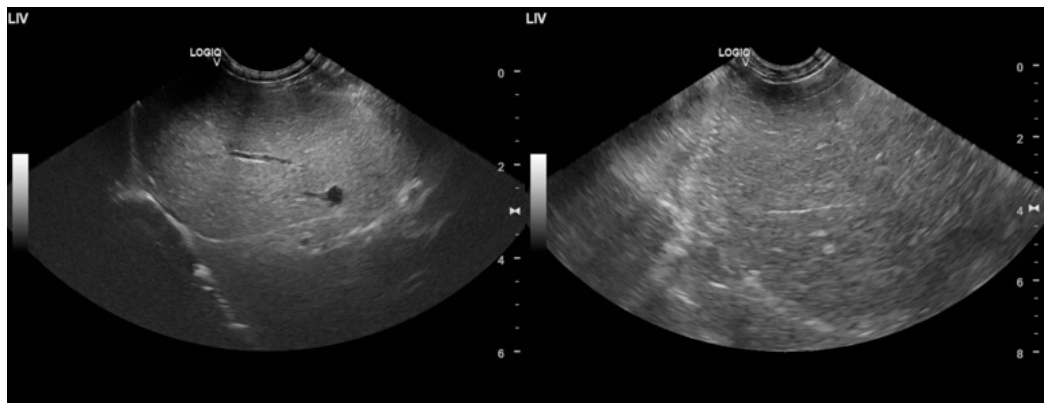
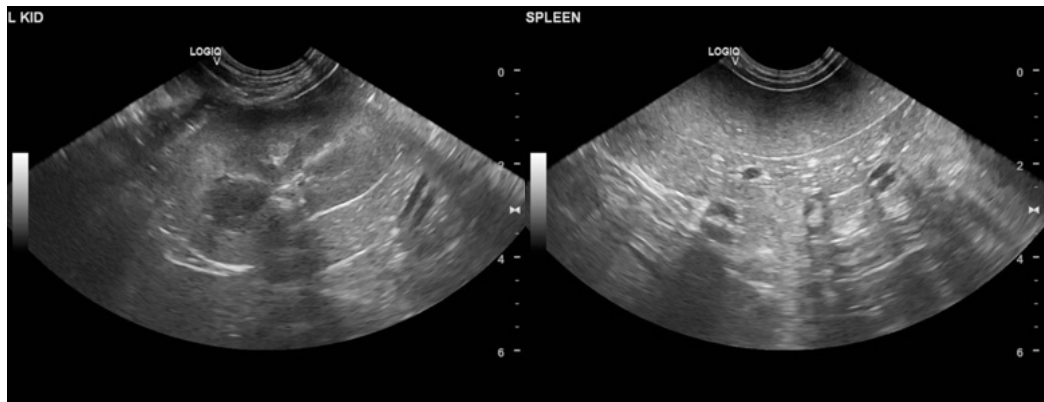
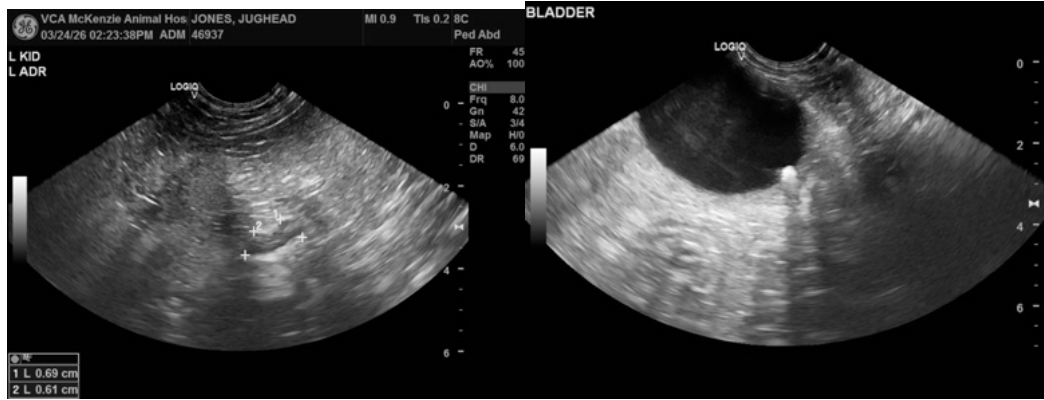
Dr. Arpaia

INVOICE

73786

DATE

3/24/26





PATIENT

Jughead Jones

SPECIES

Canine

BREED

Chihuahua Mix

SEX

Neutered male

AGE

8 years

WEIGHT

18.5 lbs

INTERPRETED BY

Remo Lobetti, BVSc,
MMedVet (Med),
PhD, Dipl. ECVIM

IMAGING PERFORMED BY

Carly Pate

HOSPITAL NAME

VCA McKenzie AH

REFERRING VET

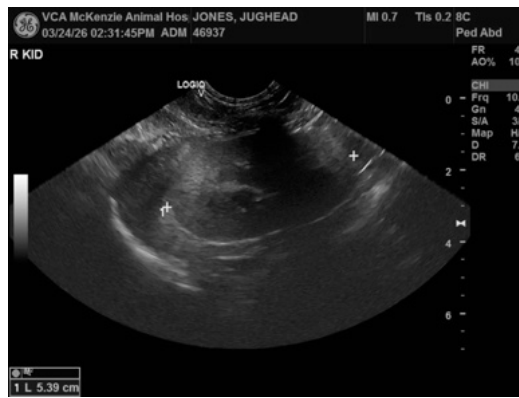
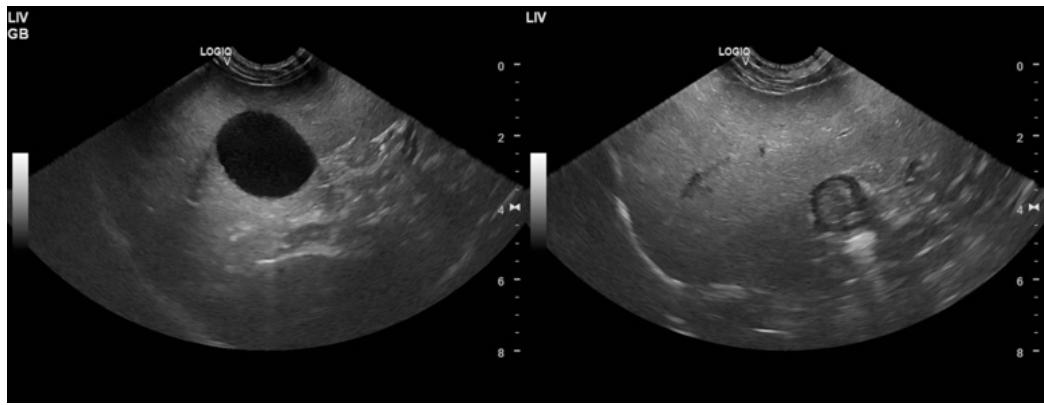
Dr. Arpaia

INVOICE

73786

DATE

3/24/26



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.

Remo Lobetti, BVSc, MMedVet (Med), PhD, Dipl. ECVIM (Internal Medicine)

info@sonopath.com