



PATIENT

PRESENTING CLINICAL SIGNS

Chance Hirth

Recheck gallbladder stones/check liver.

ALT 189, ALP 3514, GGT 357

SPECIES

UA protein 2+, urine specific gravity 1.021.

Canine

BREED

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Mix

Urinary System

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The ureters were not visible which is normal. No uroliths or sediment were visualized and anechoic urine was present. No evidence of inflammatory or neoplastic changes was noted. Ureteral papillae were normal.

AGE

14 years

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some 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 this age patient. Medullary structure differed distinctly from that of the cortex. Slight pyelectasia was noted in the kidneys. The left kidney measured 6.04 cm. The right kidney measured 5.68 cm.

INTERPRETED BY

Eric Lindquist, DMV
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IMAGING PERFORMED BY

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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 2.33 x 0.75 cm. The right adrenal gland measured 2.65 x 1.27 cm at the cranial pole and 0.75 cm at the caudal pole.

HOSPITAL NAME

Butler VH

Spleen

REFERRING VET

Dr. Garro

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 was noted.

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Liver

DATE

1/4/22

The right cranial liver revealed a 3.4 cm isoechoic nodule. This is not resectable. Nodular hyperplasia is likely with a mild potential for emerging carcinoma. Mild uniform hepatic swelling was noted. The gallbladder was mildly over distended with suspended and dependent debris, yet not to the level of emerging mucocele. However, the sludge appears to be mildly excessive. No adjunctive inflammation was noted. The gallbladder revealed a normal teardrop appearance. The common bile duct measured 0.2 cm. The cystic duct revealed a 1.0 cm calculus that was non-obstructive.



PATIENT *Gastrointestinal*

Chance Hirth Examination of the **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. Small and large intestine demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.

SPECIES

Canine

BREED

Mix

SEX

Spayed Female

Pancreas

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 subxiphoid palpation then low-grade smoldering chronic pancreatitis should be suspected.

AGE

14 years

ULTRASONOGRAPHIC FINDINGS

Right cranial liver nodule.
 Persistent gallbladder calculi, non-obstructive.
 Stable geriatric abdomen.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The hepatic nodule should be monitored.

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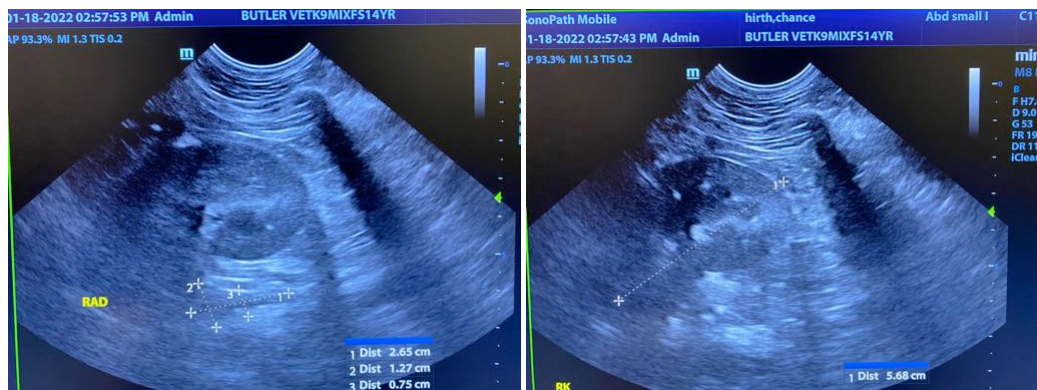
Dr. Garro

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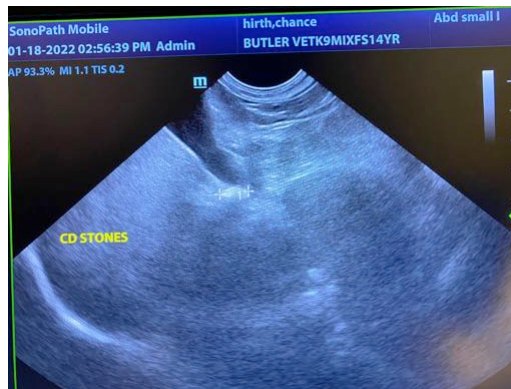
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The information and recommendations provided are based on the images presented by the referring



PATIENT

veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

Chance Hirth

SPECIES

Canine

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BREED

Mix

SEX

Spayed Female

AGE

14 years

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