



PATIENT	PRESENTING CLINICAL SIGNS
Maverick Buchanan	Ultrasound from neighboring clinic. Hx of pancreatitis and severely elevated liver values and bile acids at time of pancreatitis flare recently so sent here for u/s. On i/d low fat long term. Eating well. Drinking excessively then vomiting it up, has been good for the past week. On benazepril for hypertension
SPECIES	Growling and excessive lip licking on ultrasound of right upper quadrant
Canine	Abnormal PE/Chem/CBC/UA Results: bile acids pre-4.0-normal. post 26.2 (0-10). ALT >3x ref, AlkP <2x ref
BREED	ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN
Jack Russell Terrier	Urinary System
SEX	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.
Neutered Male	
AGE	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 his age patient. Medullary structure differed distinctly from that of the cortex. Pinpoint mineralizations, cortical cysts, and slight pyelectasia noted. The kidneys measured 4.0 cm each.
11 Years	
WEIGHT	Adrenal Glands
9.1 kg	The left adrenal gland was 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 0.50 cm.
INTERPRETED BY	The right adrenal gland was visualized obliquely and measured 0.60 cm.
Eric Lindquist, DMV	Spleen
DABVP, Cert. IVUSS	The spleen presented a hypoechoic 1.0 cm nodule at the mid body with other minor heterogeneous parenchymal changes. The spleen was folded upon itself cranially.
IMAGING PERFORMED BY	Liver
Dr. Hayley Biederbeck	The liver presented mild increased portal markings and slight coarse architecture. Normal size and vascularity. No evidence of intrahepatic or extrahepatic shunting. The gallbladder and common bile duct were unremarkable.
HOSPITAL NAME	Gastrointestinal
Lomsnes Vet Hospital	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.
REFERRING VET	
Dr. Hayley Biederbeck	
INVOICE	
42744	
DATE	
11/15/22	



PATIENT

Pancreas

Maverick Buchanan

SPECIES

Canine

BREED

Jack Russell Terrier

SEX

Neutered Male

AGE

11 Years

WEIGHT

9.1 kg

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Hayley Biederbeck

HOSPITAL NAME

Lomsnes Vet Hospital

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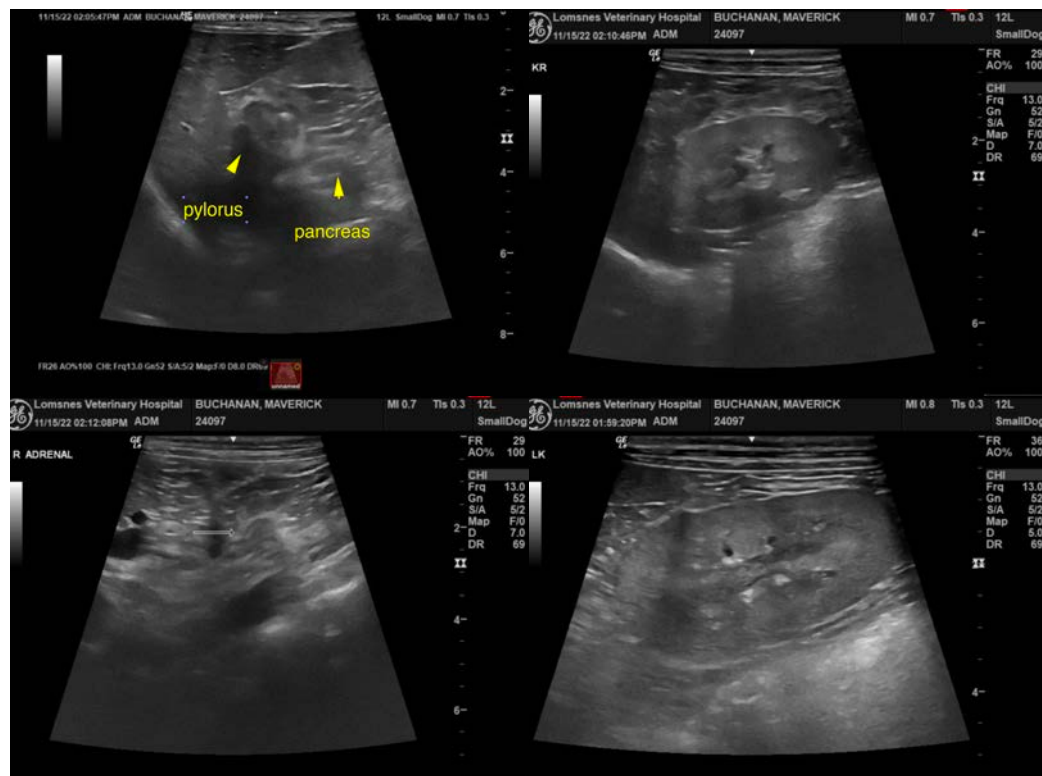
The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Some parenchymal remodeling, however, with mild deviation from curvilinear normalcy was observed. Pancreatic duct and capsular irregularities were present consistent with age related changes. If pain 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.

ULTRASONOGRAPHIC FINDINGS

- Mild hepatic remodeling
- Minor bladder thickening
- Age related changes with mineralization
- Subjectively benign splenic nodules
- Minor pancreatic remodeling

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

FNA of the splenic nodules warranted, especially if any weight loss is an issue. Bile acid elevations may be spurious, such as spontaneous gallbladder contraction. If they remain elevated, then FNA or core biopsy of the liver would be indicated. Simple diet change to liver oriented diet such a Royal Canin hepatic support or similar could be considered. Subjectively, the abdomen appears benign.





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SPECIES

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HOSPITAL NAME

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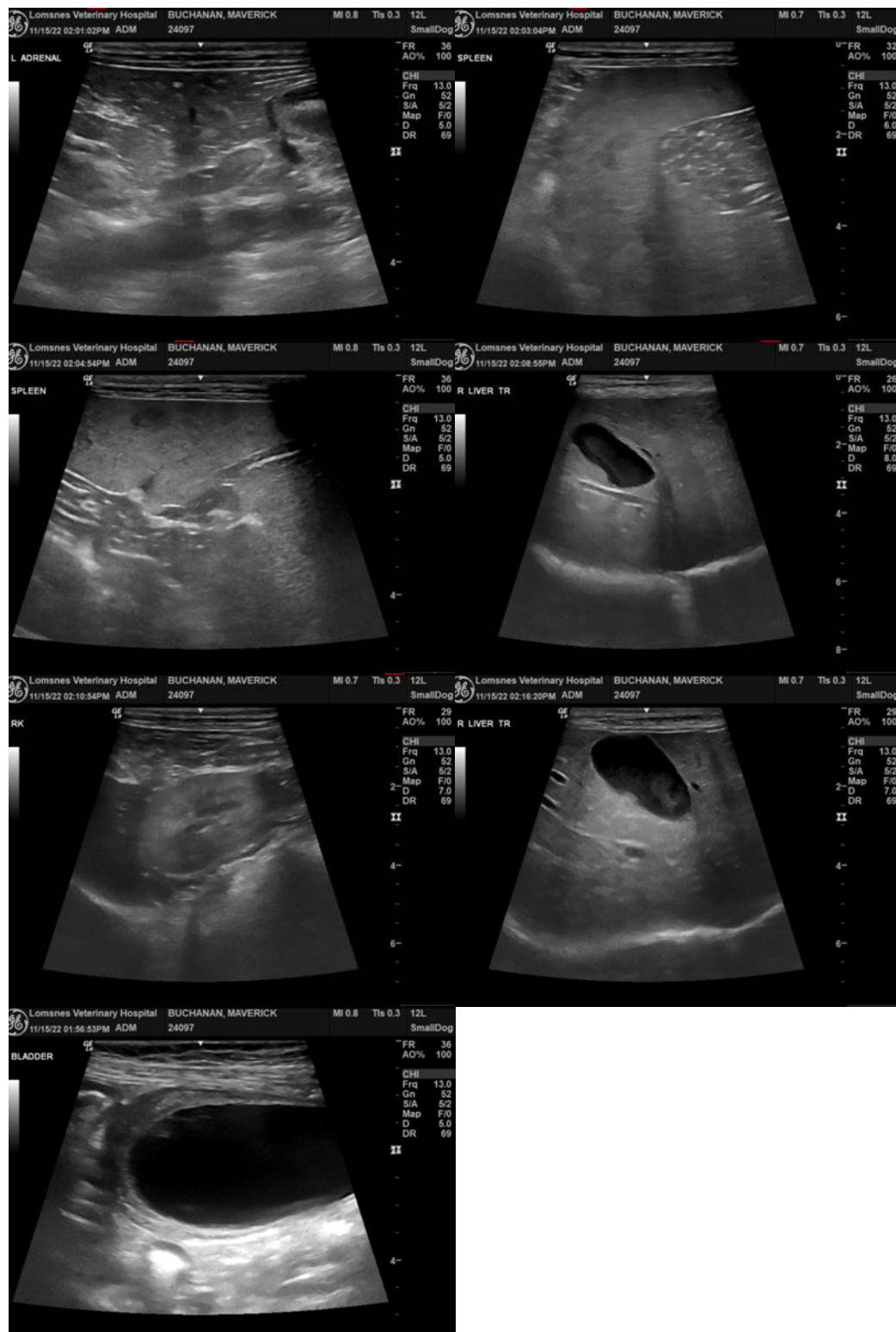
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PATIENT

Maverick Buchanan

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.

SPECIES

Canine

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

BREED

Jack Russell Terrier

SEX

Neutered Male

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11 Years

WEIGHT

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