



**PATIENT**

Jasper Luscombe

**SPECIES**

Canine

**BREED**

Papillon

**SEX**

Male

**AGE**

1 Year

**WEIGHT**

3.8 kg

**INTERPRETED BY**

Eric Lindquist, DMV

DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Donna Markland, DVM

**HOSPITAL NAME**

Island Mobile Paws VS

**REFERRING VET**

Central Island Vet  
Emergency Hospital

**INVOICE**

39318

**DATE**

7/8/22

**PRESENTING CLINICAL SIGNS**

Presented July 5 for vomiting with intermittent diarrhea with tenesmus. Bloodwork showed inflammatory leukogram with marked elevations in ALP, ALT, GGT, TBili, Cholesterol. Poor urine concentration. Radiographs showed possible foreign material in stomach. After supportive care, patient was sent home on zentoni and doxycycline (Lepto pending), clavaseptin, and cerenia.

Abnormal PE/Chem/CBC/UA Results: July 5: Neutrophils=17.63 (2.95-11.64) Monocytes=1.15 (0.16-1.12) ALT=7459 (10-125) AST=2019 (0-50) ALP=2442 (23-212) TBili=56 usg=1.019 July 8: ALP=1715 GGT=86 TBili=5 ALT=4422

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**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 were noted. Ureteral papillae were normal. The pelvic urethra was imaged 2.0 cm beyond the cystourethral junction.

The residual prostate was uniform at 1.5 cm.

The **kidneys** revealed normal size and structure, corticomedullary definition and ratio for this age. The cortices presented largely uniform texture with normal echogenic relationship to liver and spleen. Medullary structure differed distinctly from the cortex and no evidence of pelvic dilation was present. The capsules were acceptably uniform without significant irregularities. The right kidney measured 4.2 cm.

**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 right adrenal gland measured 1.66 cm x 0.54 cm at the caudal pole and 0.57 cm at the cranial pole. The left adrenal gland measured 2.0 cm x 0.50 cm.

**Spleen**

The **spleen** was folded upon itself cranially, unremarkable otherwise.

**Liver**

The **liver** images submitted revealed subjectively normal liver size, contour, and structure. Parenchymal echogenicity was naturally coarse and hypoechoic to the spleen. Vascular and biliary tracts were of normal volume with no evidence of congestion. The gallbladder was thickened with inflammatory pattern and inspissated debris present. Pericapsular inflammation noted. The common bile duct was dilated in this patient, measuring 0.56 cm. It was followed to the duodenal papillae. No overt obstruction noted. However, mucoduct is a potential. It is possible that this patient has a mucocele that has leaked and has persistent regional inflammation.

**Gastrointestinal**

Examination of the **gastrointestinal tract** revealed an unremarkable stomach and small intestine regarding structure. There were minor areas of luminal fluid noted. There was no evidence of obstructive pattern. Curvilinear patterns were retained throughout the gastrointestinal tract. Areas of hyperperistalsis were noted. This is consistent with response to irritation. The colon was 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. Pancreatic duct and capsular contour were acceptably normal and parenchyma respected normal curvilinear patterns. No overt evidence of active inflammatory or neoplastic disease was noted.

**SPECIES**

Canine

**PRIMARY FINDINGS**

- Cholangitis pattern with dilated common bile duct
- Concurrent gastroenteritis

**BREED**

Papillon

**SECONDARY FINDINGS**

- Folded spleen

**SEX**

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Male

No evidence of foreign body. However, ideally surgical removal of the gallbladder and common bile duct lavage would be performed, as there is significant inflammation around the gallbladder itself and I cannot rule out the potential of gallbladder leakage and reabsorption. However, given the patient's age, it is likely that acute cholangitis has occurred. Treatment with Enrofloxacin/Metronidazole, nutraceuticals, IV fluid support, GI protectants all indicated, and recheck sonogram in 48 hours, earlier if liver values persistently elevate. Leptospirosis titers warranted to be complete. However, I feel this is a surgical gallbladder in this patient, despite the rarity of this type of pathology in a one year old patient.

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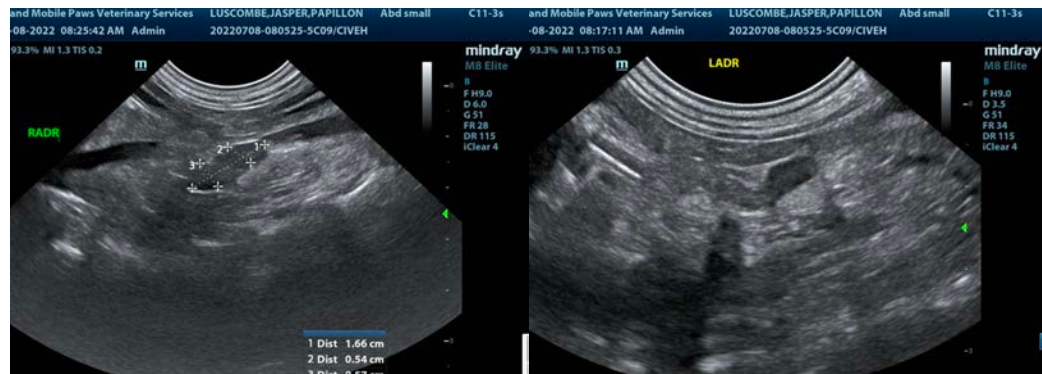
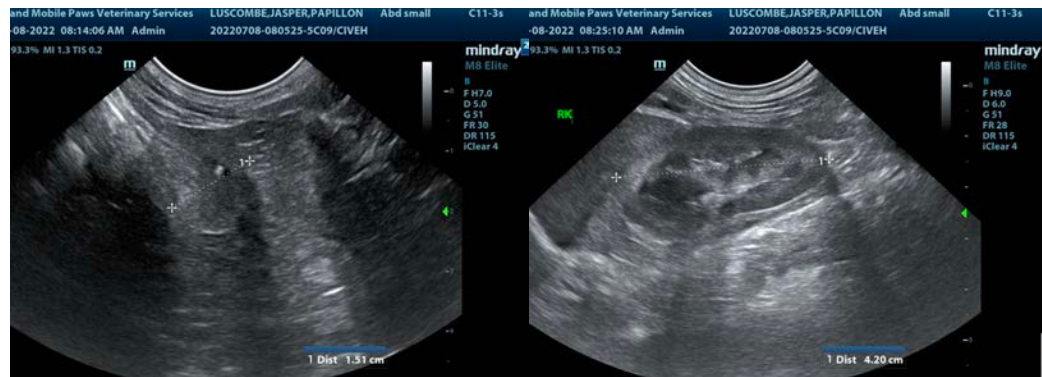
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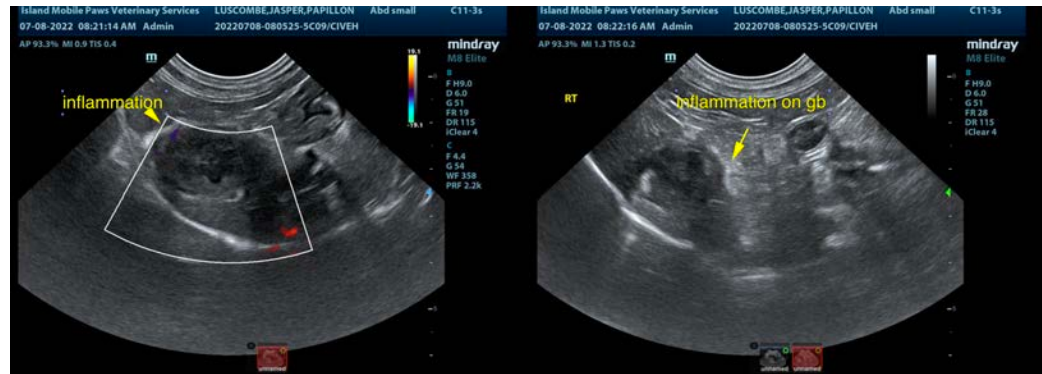
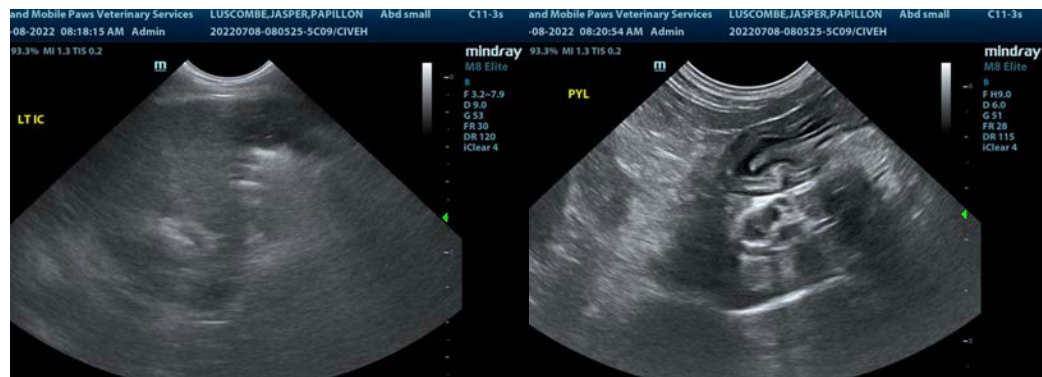
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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

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