



**PATIENT**

Boots Fallis

**SPECIES**

Canine

**BREED**

Pembroke Welsh Corgi

**SEX**

Neutered Male

**AGE**

16 Years

**WEIGHT**

26 Pounds

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Deml

**HOSPITAL NAME**

Craig Road AH

**REFERRING VET**

Dr. Deml

**INVOICE**

17543

**DATE**

10/1/22

**PRESENTING CLINICAL SIGNS**

History: Originally presented for a hole in the L nare. Believe to be suspect oronasal fistula due to severe dental disease. Bloodwork was done and revealed a severe azotemia and elevated liver enzymes (see values). P is in hospital for diuresis for renal disease, ultrasound done to evaluate abdomen, main concern is liver and kidneys.

Abnormal PE/Chem/CBC/UA Results: ALT: 318 (10-118) BUN: 55 (7-25) Creatinine: 6.1 (0.3-1.4) Phosphorus: 7.8 (2.9-6.6) Glucose: 117 (60-110) Potassium: 6.5 (3.7-5.8) Platelets: 521 (165-500)

**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 **kidneys** presented chronic interstitial nephrosis pattern with moderate remodeling and occasional cortical cysts. The right kidney revealed cortical infarct and collapse. The right kidney appears subjectively end stage. A larger cyst was noted in the dorsal cortex of the left kidney, possible abscessation, measuring 1.0 cm. If any evidence of inflammatory sediment is present in the urine, then ultrasound guided drainage of the left renal cyst is recommended. Minor pyelectasia was noted. The left kidney measured 4.0 cm. The right kidney measured 4.0 cm.

**Adrenal Glands**

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 0.5 cm.

The **right adrenal gland** was visualized obliquely, revealing minor heterogeneous changes yet uniform.

**Spleen**

The **spleen** was largely smooth with subtle heterogeneous parenchymal changes while maintaining normal echogenic relationship to the liver and kidney. These changes are mild and consistent with normal age-related alteration. The capsule was smooth without noticeable impingement from within the spleen or from pathology in the adjacent abdomen. The splenic vasculature demonstrated normal volume without signs of congestion or significant contraction. Hyperechoic lipogranulomatous changes were noted, measuring up to 0.28 cm.

**Liver**

The **liver** in this patient revealed an expansive hypoechoic parenchymal mass, measuring 3.38 cm with mild disruption of architecture. The liver mass appears to be low grade or benign. Mild increased portal markings were noted throughout the remainder of the liver, consistent with largely age-related changes. The portal vein was normal, measuring 0.3 cm. The gallbladder and common bile duct were unremarkable.



**PATIENT**

**Gastrointestinal**

Boots Fallis

The **pyloric** wall was mildly thickened with echogenic mucosal remodeling, yet the lumen was empty. The small intestine and colon were unremarkable.

**SPECIES**

**Pancreas**

Canine

A right **pancreatic** nodule (appears subjectively benign) was noted with heterogeneous parenchymal changes were noted elsewhere.

**BREED**

**ULTRASONOGRAPHIC FINDINGS**

Pembroke Welsh Corgi

- Chronic inflammatory hepatopathy with right medial liver mass
- Gastric hypertrophy
- Pancreatic remodeling and pancreatic nodule
- Dystrophic, subjectively end stage degenerative right kidney
- Moderate degenerate left renal changes with large cyst
- Minor heterogeneous changes in the right adrenal gland

**SEX**

Neutered Male

**AGE**

16 Years

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**WEIGHT**

26 Pounds

The hepatic mass is likely hepatoma or pronounced nodular hyperplasia. Full urinary work up is warranted in this patient. Assessment for pyelectasia is warranted. If any evidence of inflammatory sediment is present in the urine, then ultrasound guided drainage of the left renal cyst is recommended. Bile acid profile would be ideal to assess for any early hepatic dysfunction prior to any anesthetic procedure.

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Deml

**HOSPITAL NAME**

Craig Road AH

**REFERRING VET**

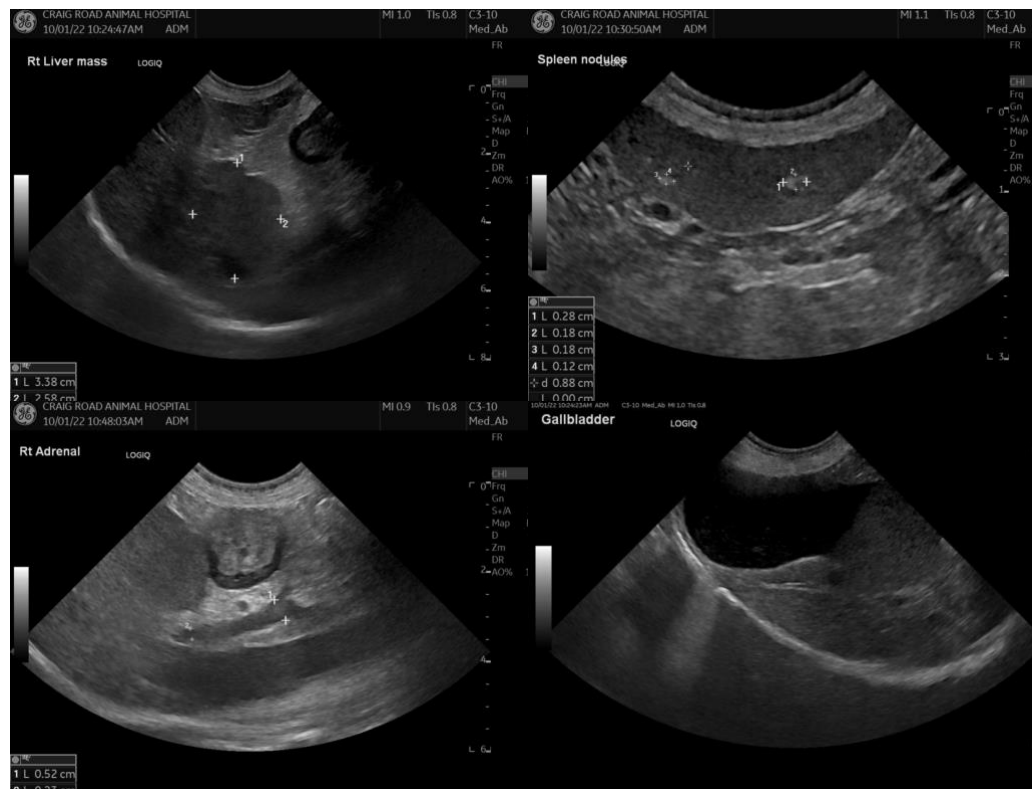
Dr. Deml

**INVOICE**

17543

**DATE**

10/1/22





**PATIENT**

Boots Fallis

**SPECIES**

Canine

**BREED**

Pembroke Welsh Corgi

**SEX**

Neutered Male

**AGE**

16 Years

**WEIGHT**

26 Pounds

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Deml

**HOSPITAL NAME**

Craig Road AH

**REFERRING VET**

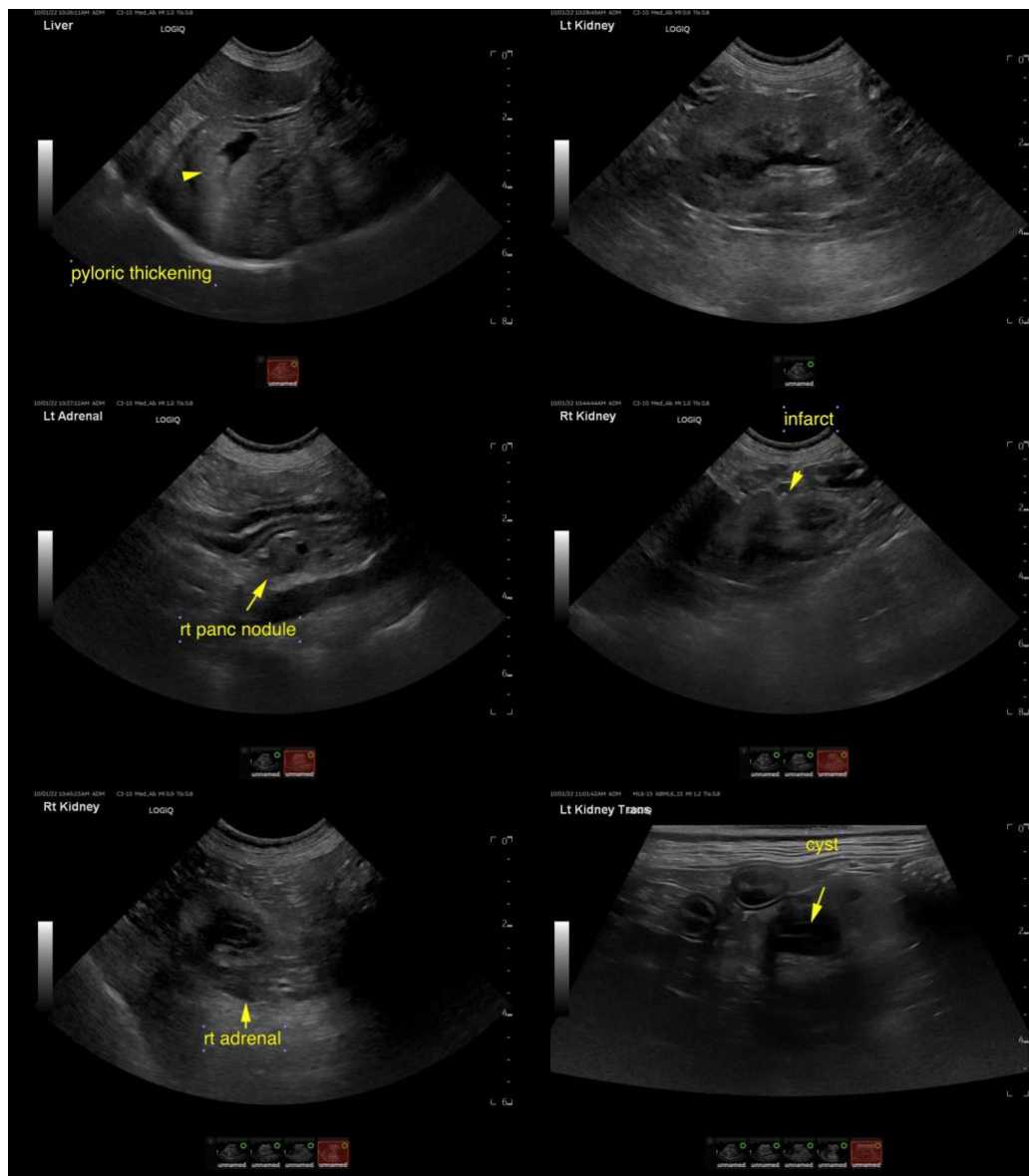
Dr. Deml

**INVOICE**

17543

**DATE**

10/1/22



The information and recommendations provided are based on the images presented by the referring veterinarian. 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  
info@SonoPath.com