



## PATIENT

Oreo Doppelheuer

## SPECIES

Feline

## BREED

DSH

## SEX

Male Neutered

## AGE

10y

## WEIGHT

10.5 lbs

## INTERPRETED BY

R. McKenzie Daniel,  
DVM, DABVP  
(Canine and Feline)

## IMAGING PERFORMED BY

Keisha Smitley, CVT

## HOSPITAL NAME

Geary VS

## REFERRING VET

Dr. Curtis Geary, VMD

## INVOICE

13441

## DATE

4/24/26

## PRESENTING CLINICAL SIGNS

History: Patient presented on 04/20 for not eating well for 2 weeks and losing weight.

Abnormal PE/Chem/CBC/UA Results: Patient is pale and jaundice on physical exam. Dehydrated and dull. Non regenerative anemia. Elevations in liver values, bilirubin and calcium. Urine - Urine Protein 500, Bilirubin 6, Urobilinogen 12, WBC and RBC present Bloodwork and UA Attached

## ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

### Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra exhibited normal tone. The bladder wall with normal in appearance. Several to multiple non-obstructive, hyperechoic shadowing calculi and accumulated mineral were present in the dependent lumen with an example measuring 0.59 cm in diameter.

Normal size and margination was present in the kidneys. A normal 1:3 cortex / medulla ratio was maintained. The medulla and cortices were uniform in texture with some increased echogenicity and mild loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 4.2 cm in length. The right kidney measured 4.1 cm in length.

### Adrenal Glands

The left adrenal gland was normal in size. Mild parenchyma heterogeneity and mild capsule asymmetry was present without suspicion for overt neoplasia. The left adrenal gland measured 0.36 cm. The right adrenal gland was not definitively visualized.

### Spleen

The spleen exhibited a finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. The capsule was smooth and regular without apparent expansion. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis. Acute to chronic inflammatory, neoplastic, or benign parenchyma changes were not noted. The spleen measured 0.68 cm width level of the mid spleen.

### Liver

The liver presented normal in size with normal vascular volume. The parenchyma of the liver was subjectively increased in echogenicity compared to the spleen and renal cortices. The echotexture of the liver parenchyma was uniform with a mild coarse echotexture. The capsule of the liver was symmetrical in margination. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non distended in size with normal wall and without evidence of overt inflammation or edema. The gallbladder exhibited mild, echogenic, nonmineralized biliary sludge. The common bile duct was not definitively visualized without evidence of post hepatic obstruction.



## PATIENT

Oreo Doppelheuer

## SPECIES

Feline

## BREED

DSH

## SEX

Male Neutered

## AGE

10y

## WEIGHT

10.5 lbs

## INTERPRETED BY

R. McKenzie Daniel,  
DVM, DABVP  
(Canine and Feline)

## IMAGING PERFORMED BY

Keisha Smitley, CVT

## HOSPITAL NAME

Geary VS

## REFERRING VET

Dr. Curtis Geary, VMD

## INVOICE

13441

## DATE

4/24/26

## Gastrointestinal

The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach contained retained pyloric fluid.

The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. The lumen of the small intestine was empty with no signs of ileus, obstruction or foreign material. Small intestine wall measured 0.22 cm.

Normal visible colon wall layers were present with apparent formed feces in lumen.

## Pancreas

The left pancreas was mildly prominent in size with capsule asymmetry with isoechoic, mildly heterogeneous remodeled parenchyma. Mildly prominent pancreatic duct.

## Free Abdomen

No visualized significant omental lymphadenopathy and scant peri hepatic effusion present.

## PRIMARY FINDINGS

- Enlarged hyperechoic liver, non-distended gallbladder with mild bile sediment and non-visualized common bile duct
- Normal gastrointestinal tract with mild non-obstructive gastric ileus
- Possible left limb chronic pancreatitis
- Pinpoint dystrophic left adrenal mineralization – normal age variant in a cat
- Cystic calculi

## SECONDARY FINDINGS

- Mild chronic renal changes

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The appearance of the liver was nonspecific but may indicate hepatitis/cholangiohepatitis, lipidosis, vacuolar or cholestatic hepatopathy or fibrosis while round cell hepatic neoplasia cannot be excluded. Assuming normal coagulation parameters, ultrasound guided FNA of the liver using a 25-gauge needle would be warranted for cytology, primarily to assess for evidence of inflammatory cells and to rule out round cell neoplasia. No overt current evidence of post hepatic obstruction. Vitamin K administration may be considered if lipidosis is confirmed is recommended.

A GI panel to include PLI/TLI/Cobalamin/Folate to correlate with pancreas and assess for non-structural intestinal disease, if lipidosis is confirmed is recommended. Empirical therapy for cholangiohepatitis/lipidosis which may include feeding tube placement if persistent inappetence or anorexia is recommended. Further renal staging to include urine C/S and protein: creatinine ratio on sterile urine sample may be considered.



**PATIENT**

Oreo Doppelheuer

**SPECIES**

Feline

**BREED**

DSH

**SEX**

Male Neutered

**AGE**

10y

**WEIGHT**

10.5 lbs

**INTERPRETED BY**

R. McKenzie Daniel,  
DVM, DABVP  
(Canine and Feline)

**IMAGING PERFORMED BY**

Keisha Smitley, CVT

**HOSPITAL NAME**

Geary VS

**REFERRING VET**

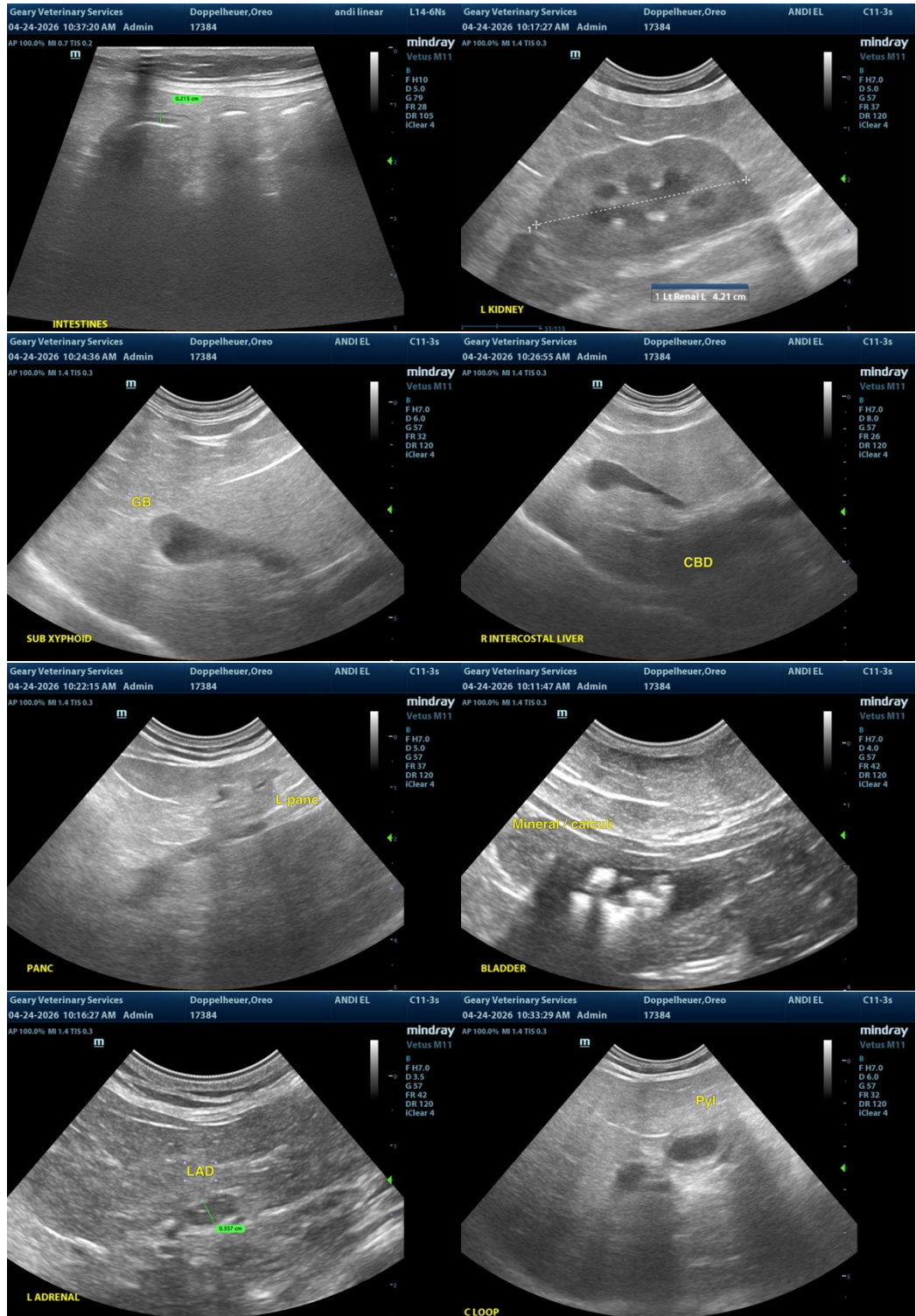
Dr. Curtis Geary, VMD

**INVOICE**

13441

**DATE**

4/24/26





## PATIENT

Oreo Doppelheuer

## SPECIES

Feline

## BREED

DSH

## SEX

Male Neutered

## AGE

10y

## WEIGHT

10.5 lbs

## INTERPRETED BY

R. McKenzie Daniel,  
DVM, DABVP  
(Canine and Feline)

## IMAGING PERFORMED BY

Keisha Smitley, CVT

## HOSPITAL NAME

Geary VS

## REFERRING VET

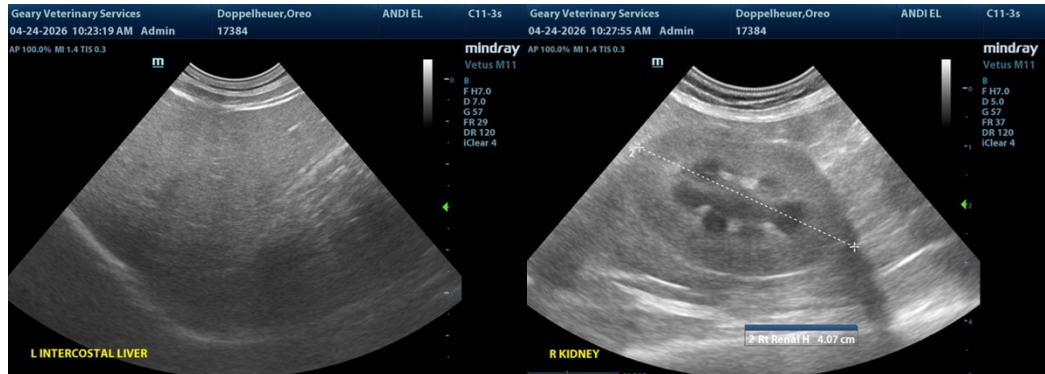
Dr. Curtis Geary, VMD

## INVOICE

13441

## DATE

4/24/26



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.

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)

[info@sonopath.com](mailto:info@sonopath.com)