

**PATIENT**

Storm Grace

**SPECIES**

Canine

**BREED**

German Shepherd

**SEX**

F

**AGE**

8yr

**WEIGHT**

72.3lb

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Chloe Lowe

**HOSPITAL NAME**

Barton Heights VH

**REFERRING VET**

Dr Candelaria

**INVOICE**  
 24000

**DATE**  
 02/26/2026

**PRESENTING CLINICAL SIGNS**

- elevated liver values
- lethargic
- denamarin

Abnormal PE/Chem/CBC/UA Results: TP 7.5, ALP 285, GLOB 4.2, Tbili 2.5, AST 554, ALT 3,345 U/A pro 30mg/dl, UBG 1g/dl, BIL 6mg/dl, WBC 18/ HPF, RBC 17/ HPF USG >1.050 PLT 160k/ml HCT 47.6% Coag PT 52

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with no evidence of urine/lumen sediment, mineral, or calculi. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes was noted.

Mildly thickened visualized uterus exhibiting mild uterine lumen fluid. A non-specific cystic appearing mass or structure in the area of the uterus cranial to the urinary bladder measuring ~ 5 cm in diameter was present. The fluid within the cystic structure appeared primarily anechoic with no evidence of regional inflammation.

Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio and normal corticomedullary definition were maintained. The echogenicity of the cortex was similar to or slightly less than normal liver parenchyma while the medulla echogenicity was hypoechoic to the cortex with no evidence of pelvic dilation. The left kidney measured 7.6 cm in length. The right kidney measured 7.7 cm in length.

The area of the aortic trifurcation was free of pathology.

Both ovaries were visualized exhibiting normal size, mild asymmetrical contour and ovarian cysts. The left ovary measured 3.0 cm in diameter. The right ovary measured 2.9 cm in diameter.

**Adrenal Glands**

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.60 cm width at the caudal pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.85 cm width at the caudal pole.

**Spleen**

The spleen exhibited normal size and contour with mild parenchyma heterogeneity exhibiting intermittent discrete hypoechoic non-capsule deforming nodules. An example of a nodule measured 0.69 cm in diameter.



**PATIENT**

**Liver/Gallbladder**

Storm Grace

The liver presented mildly enlarged in size. The hepatic parenchyma revealed non-homogenous diffuse reduced echogenicity compared to the spleen and renal cortical parenchyma with a mild coarse echotexture. Increased portal vein prominence was evident. The capsule of the liver was normal in margination. Distinct masses or nodules were not evident. The hepatic and portal vasculature were normal in appearance. The gallbladder was non-distended in size with mild non-organized debris. The cystic and common bile ducts were normal.

**SPECIES**

Canine

**BREED**

German Shepherd

**Gastrointestinal**

The stomach presented moderately distended with retained primarily anechoic fluid and a mild amount of hyperechoic non-shadowing ingesta.

**SEX**

F

The intestinal walls demonstrated intact wall layering and maintained 1:3 muscularis / mucosa ratio. The submucosa exhibited mild decreased echogenicity with occasional mucosal speckling. A mild segmental ileus pattern consisting of mild fluid accumulation in the intestinal lumen was present without obstruction or foreign material.

**AGE**

8yr

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

**Pancreas**

The parenchyma of the left limb, body and right limb of the pancreas presented isoechoic to the adjacent omental fat. A normal curvilinear capsule contour of the pancreas was present. The visible pancreatic duct was normal. No signs of active inflammation or neoplastic disease was evident.

**WEIGHT**

72.3lb

**Free Abdomen**

No omental masses, overt lymphadenopathy or peritoneal effusion was present.

**INTERPRETED BY**

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

**ULTRASONOGRAPHIC FINDINGS**

**Primary**

- Hepatopathy -inflammatory hepatobiliary disease, i.e. cholangiohepatitis or similar favored given primarily significantly elevated ALT/AST combination, vacuolar /cholestatic hepatopathy, hyperplasia, hepatotoxicosis or other hepatopathy possible with occult neoplasia thought less likely yet not excluded
- Mild non-organized gallbladder debris
- Non-specific gastroenteropathy exhibiting moderate retained gastric fluid / non-specific ingesta and mild segmental intestinal ileus
- Thickened fluid dilated uterus- endometrial hyperplasia, potential for emerging pyometra, mucometra or similar
- Unspecified cystic appearing structure/mass area of the uterus
- Bilateral cystic ovaries
- Mild heterogeneous spleen exhibiting discrete hypoechoic nodules- hyperplasia, hematopoiesis, splenitis, hypersplenism, neoplasia possible

**IMAGING PERFORMED BY**

Chloe Lowe

**HOSPITAL NAME**

Barton Heights VH

**REFERRING VET**

Dr Candelaria

**INVOICE**  
24000

**DATE**  
02/26/2026



**PATIENT**

Storm Grace

**SPECIES**

Canine

**BREED**

German Shepherd

**SEX**

F

**AGE**

8yr

**WEIGHT**

72.3lb

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Chloe Lowe

**HOSPITAL NAME**

Barton Heights VH

**REFERRING VET**

Dr Candelaria

**INVOICE**

24000

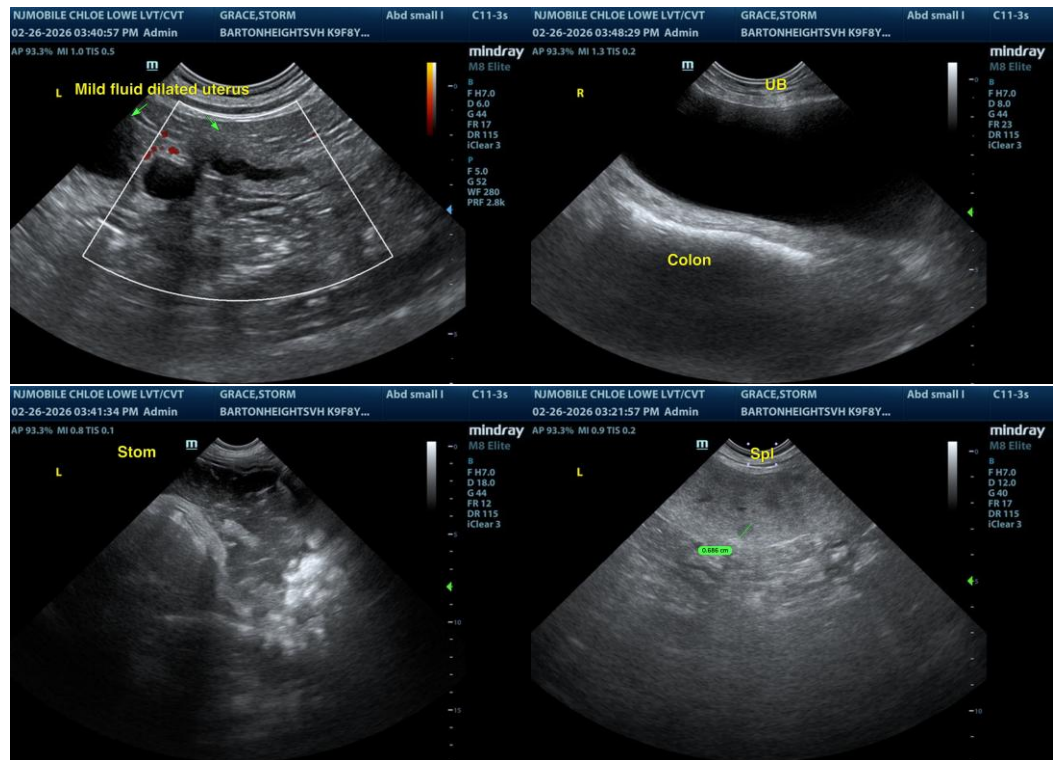
**DATE**

02/26/2026

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

No obvious evidence of mechanical gastrointestinal obstruction although the gastric ingesta is non-specific. Correlation with most recent meal ingestion is recommended. Assuming normal clotting status and using a 25g needle, a hepatosplenic FNA for screening cytology may be considered for further assessment. A leptospirosis titer/PCR may be considered if clinically indicated or if potential exposure/endemic to the area.

Hospitalization with empirical therapy for non-specific hepatitis with concurrent gastrointestinal support, suggested documented 12 hour fast and sonographic reassessment of the gastrointestinal tract with concurrent clinical monitoring is recommended. Assuming no pathology on three view chest radiographs, OVH with gross inspection of the gastrointestinal tract and unspecified cystic structure /mass with potential for hepatogastrointestinal biopsies +/- splenectomy may be considered pending further assessment.





**PATIENT**

Storm Grace

**SPECIES**

Canine

**BREED**

German Shepherd

**SEX**

F

**AGE**

8yr

**WEIGHT**

72.3lb

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Chloe Lowe

**HOSPITAL NAME**

Barton Heights VH

**REFERRING VET**

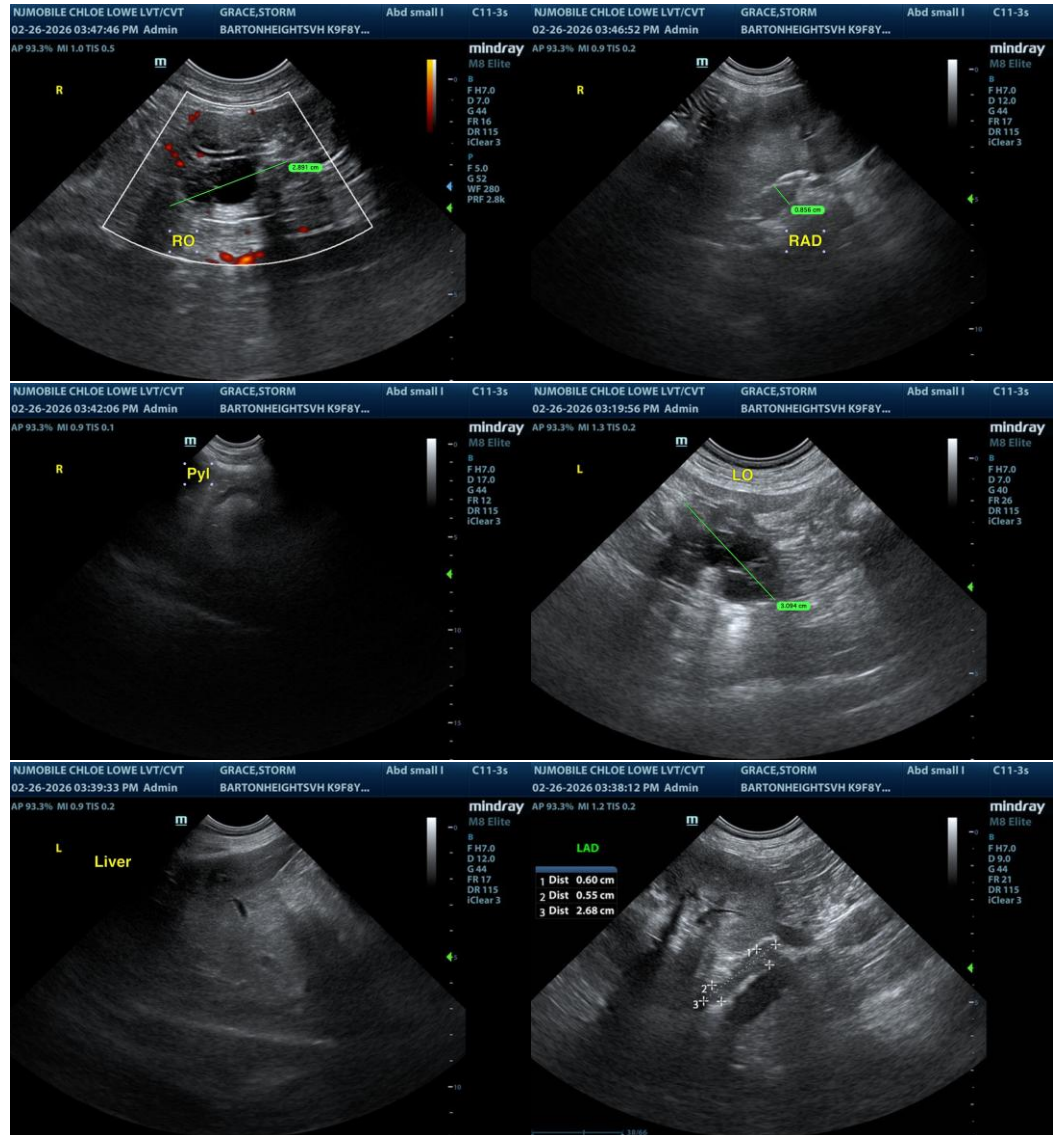
Dr Candelaria

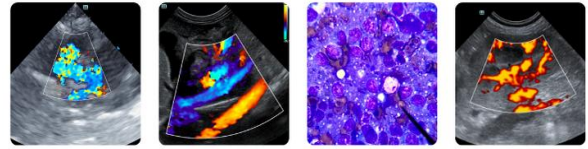
**INVOICE**

24000

**DATE**

02/26/2026





**PATIENT**

Storm Grace

**SPECIES**

Canine

**BREED**

German Shepherd

**SEX**

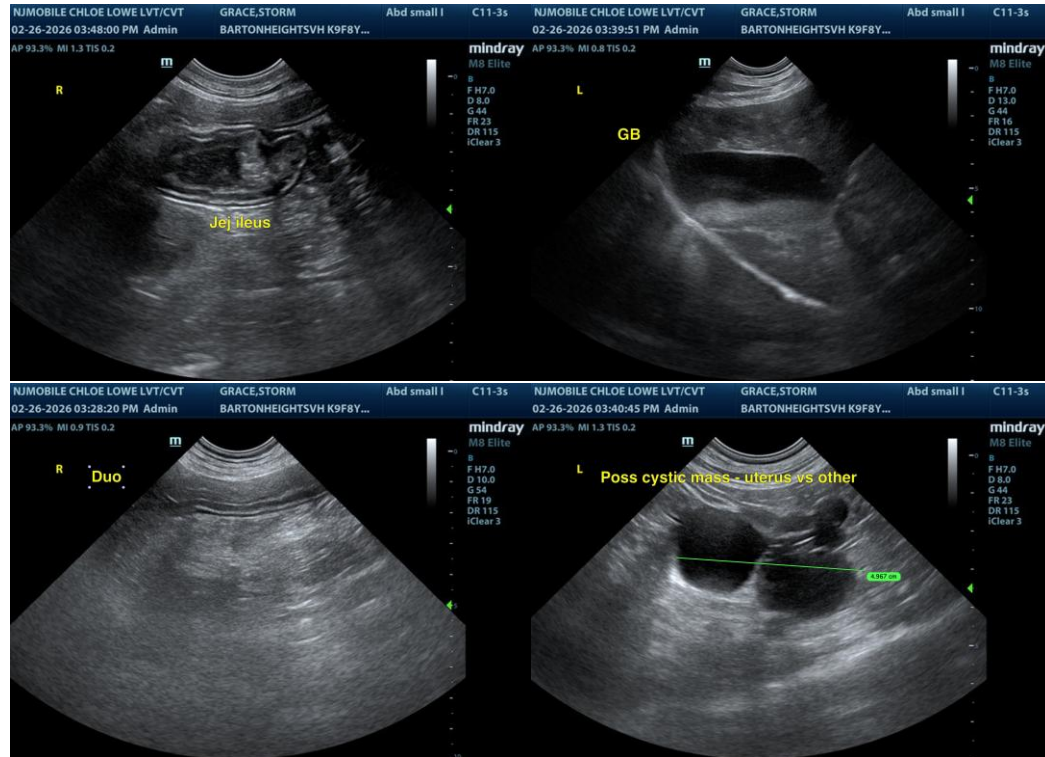
F

**AGE**

8yr

**WEIGHT**

72.3lb



**INTERPRETED BY**

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

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.

**IMAGING PERFORMED BY**

Chloe Lowe

R. McKenzie Daniel, DVM, DABVP (Canine/Feline Practice)  
[info@sonopath.com](mailto:info@sonopath.com)

**HOSPITAL NAME**

Barton Heights VH

**REFERRING VET**

Dr Candelaria

**INVOICE**  
 24000

**DATE**  
 02/26/2026