



## PATIENT

Camila Natal

## SPECIES

Canine

## BREED

Chihuahua

## SEX

F

## AGE

8 yrs.

## WEIGHT

3.6 lbs.

## INTERPRETED BY

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

## IMAGING PERFORMED BY

Julissa Diaz, LVT

## HOSPITAL NAME

Centro Veterinario  
del Norte

## REFERRING VET

Ileana Rivera, DVM

## INVOICE

10366

## DATE

11/18/25

## PRESENTING CLINICAL SIGNS

Patient presented for evaluation of OHE; she has been diagnosed with increased liver enzymes since 2019. On PE, heart and lungs auscultated normal. Abdominal palpation soft. Owners described that every time pet is in heat she get GI symptoms, pain and is uncomfortable. Results of CBC wnl, in chemistry mild increased in ALT (266) and GGT (17), and pt/ptt results were within normal limits. Given the symptoms every time she is in heat, recommended to consider OHE.

## ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

### Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2.0 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with no evidence of urine 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.

The uterus was sonographically unremarkable and non-fluid dilated. The areas of the left and right ovaries were free of obvious pathology.

No evidence of pathology in the area of the aortic trifurcation.

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 2.7 cm in length. The right kidney measured 3.1 cm in length.

### Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.34 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 0.33 cm width at the caudal pole.

### 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.

### Liver/ Gallbladder

The liver was subjectively normal in size, structure, and contour. Normal hepatic vascular volume was present. The liver parenchyma was uniform and hypoechoic to the spleen with a mild coarse echotexture. The hepatic and portal vasculature were normal in appearance without signs of congestion.



## PATIENT

Camila Natal

## SPECIES

Canine

## BREED

Chihuahua

## SEX

F

## AGE

8 yrs.

## WEIGHT

3.6 lbs.

## INTERPRETED BY

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

## IMAGING PERFORMED BY

Julissa Diaz, LVT

## HOSPITAL NAME

Centro Veterinario  
del Norte

## REFERRING VET

Ileana Rivera, DVM

## INVOICE

10366

## DATE

11/18/25

The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal.

### ***Gastrointestinal***

The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach was empty without evidence of retained ingesta, fluid, or foreign material.

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.

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 were evident.

### ***Free Abdomen***

No overt lymphadenopathy or peritoneal effusion was present.

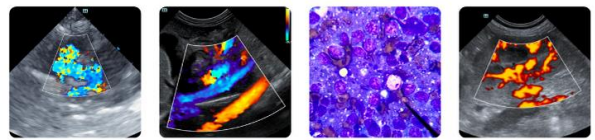
## **ULTRASONOGRAPHIC FINDINGS**

- Sonographically unremarkable normal volume liver
- Normal gallbladder
- Normal visualized uterus and area of bilateral ovaries

## **INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

There is no evidence of visceral pathology. The hepatopathy is most consistent with mild benign hepatopathy criteria with considerations including primary parenchymal disease, i.e., nonspecific inflammatory hepatopathy or nonobstructive cholestasis, portal hypoplasia / microvascular dysplasia. No evidence of intrahepatic or extrahepatic macroscopic shunt.

Given normal clotting status and assuming evidence of adequate hepatic function, i.e., normal albumin, glucose, BUN, and cholesterol levels, ovariohysterectomy with hepatic biopsies at the time of surgery is recommended.



**PATIENT**

Camila Natal

**SPECIES**

Canine

**BREED**

Chihuahua

**SEX**

F

**AGE**

8 yrs.

**WEIGHT**

3.6 lbs.

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Julissa Diaz, LVT

**HOSPITAL NAME**

Centro Veterinario  
del Norte

**REFERRING VET**

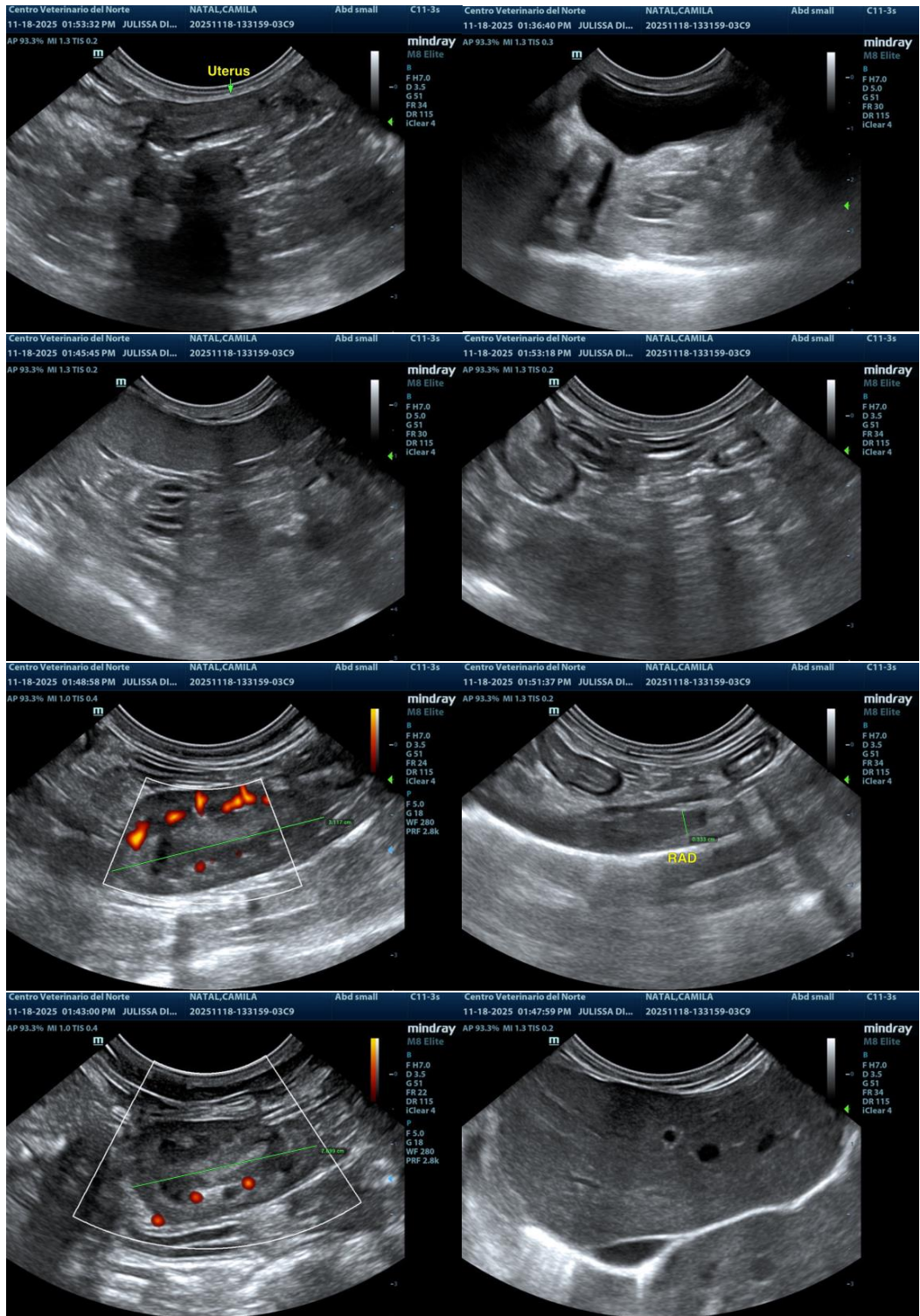
Ileana Rivera, DVM

**INVOICE**

10366

**DATE**

11/18/25





## PATIENT

Camila Natal

## SPECIES

Canine

## BREED

Chihuahua

## SEX

F

## AGE

8 yrs.

## WEIGHT

3.6 lbs.

## INTERPRETED BY

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

## IMAGING PERFORMED BY

Julissa Diaz, LVT

## HOSPITAL NAME

Centro Veterinario  
del Norte

## REFERRING VET

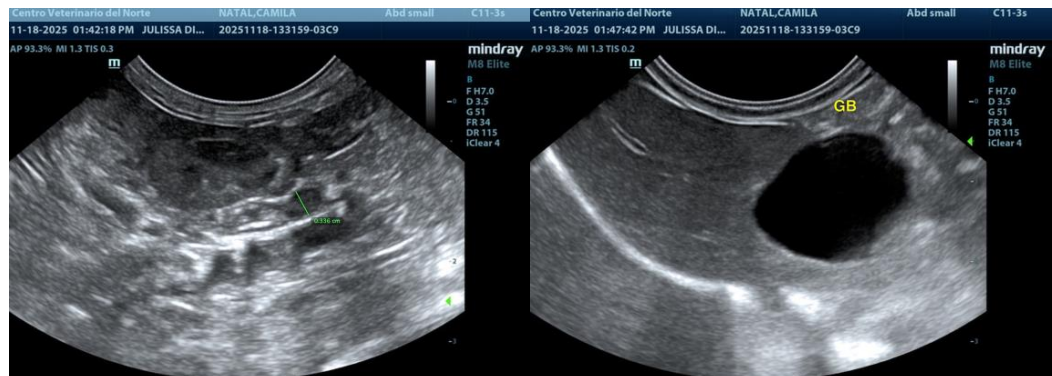
Ileana Rivera, DVM

## INVOICE

10366

## DATE

11/18/25



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)