



PATIENT

Gemma Lorenzo

SPECIES

Canine

BREED

Chihuahua

SEX

Spayed Female

AGE

10

WEIGHT

2.55

INTERPRETED BY

Eric Lindquist, DMV,
DABVP(CFM), Cert.
IVUSS

IMAGING PERFORMED BY

Dr. Melissa Helstein

HOSPITAL NAME

Veterinary Emergency
Group - Peabody

REFERRING VET

Dr. Melissa Helstein

INVOICE

15285

DATE

04/21/26

PRESENTING CLINICAL SIGNS

Gemma, a ~10-year-old SF Chihuahua, presents today for evaluation due to panting, lethargy, disorientation this morning, and vomiting bile (noted overnight and increasingly frequent over weeks). Recent History: Owner reports Gemma has been vomiting bile for weeks, with episodes often discovered in the morning and occurring overnight; frequency appears increased over the past 2-3 weeks since the owner returned from vacation. This morning there was bile on the bed, foam at the mouth, panting, lethargy, and she could not stand when first taken outside, though panting resolved since. She is eating, typically finicky and often only one meal per day. No known seizures. No known toxin or foreign body exposure reported. Diet varies between owner (Farmer's Dog) and owner's mother who cooks different foods; stool may be a little different when eating the mother's food. No diarrhea reported. No current medications. No recent blood work known.

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The **urinary bladder** presented with a large amount of suspended debris. The bladder wall itself was unremarkable.

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some mild age-related loss of curvilinear patterns regarding the capsule and C/M junction. The cortices presented largely uniform texture with some increased echogenicity expected for his age patient. Medullary structure differed distinctly from that of the cortex. Dystrophic mineralization and calculi were noted and non-obstructive at this time measuring up to 0.60 cm. The left kidney measured 3.8 cm in length. The right kidney measured 4.2 cm in length.

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 left adrenal gland measured 0.50 cm width. The right adrenal gland measured 1.0 cm width at the cranial pole and 0.62 cm width at the caudal pole.

Spleen

The **spleen** presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The capsule was smooth without noticeable expansion or deviation from within the spleen or adjacent pathology. The splenic vasculature demonstrated normal volume without signs of congestion or thrombosis. No sonographic evidence of acute or chronic inflammatory, neoplastic, or infarctual changes were noted.

Liver

The **liver** revealed increased portal markings and isoechoic macronodular changes. Small, fairly empty gallbladder with slightly thickened gallbladder wall. Enhanced mesentery was noted around the liver.

Gastrointestinal



PATIENT

Gemma Lorenzo

SPECIES

Canine

BREED

Chihuahua

SEX

Spayed Female

AGE

10

WEIGHT

2.55

INTERPRETED BY

Eric Lindquist, DMV,
DABVP(CFM), Cert.
IVUSS

IMAGING PERFORMED BY

Dr. Melissa Helstein

HOSPITAL NAME

Veterinary Emergency
Group - Peabody

REFERRING VET

Dr. Melissa Helstein

INVOICE

15285

DATE

04/21/26

Examination of the **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. Small and large intestine demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.

Pancreas

The **pancreas** revealed mild heterogenous parenchymal changes with hypo- and hyperechoic parenchyma.

ULTRASONOGRAPHIC FINDINGS

- Acute on chronic cholangiohepatitis liver pattern- mild potential for underlying neoplasia.
- Age-related renal changes with renal mineralization/calculi that appear nonobstructive.
- Urinary bladder debris- suspect UTI.
- Suspect pancreatitis.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

FNA is strongly recommended after coagulation panel with cytology and culture. Leptospirosis titers is indicated. IV fluid support, IV ampicillin, GI protectants, plasma expanders, bile acid profile are all indicated. Prognosis is guarded depending upon response to therapy and cytology results. Urine culture and sensitivity is indicated if any evidence of UTI.



PATIENT

Gemma Lorenzo

SPECIES

Canine

BREED

Chihuahua

SEX

Spayed Female

AGE

10

WEIGHT

2.55

INTERPRETED BY

Eric Lindquist, DMV,
DABVP(CFM), Cert.
IVUSS

IMAGING PERFORMED BY

Dr. Melissa Helstein

HOSPITAL NAME

Veterinary Emergency
Group - Peabody

REFERRING VET

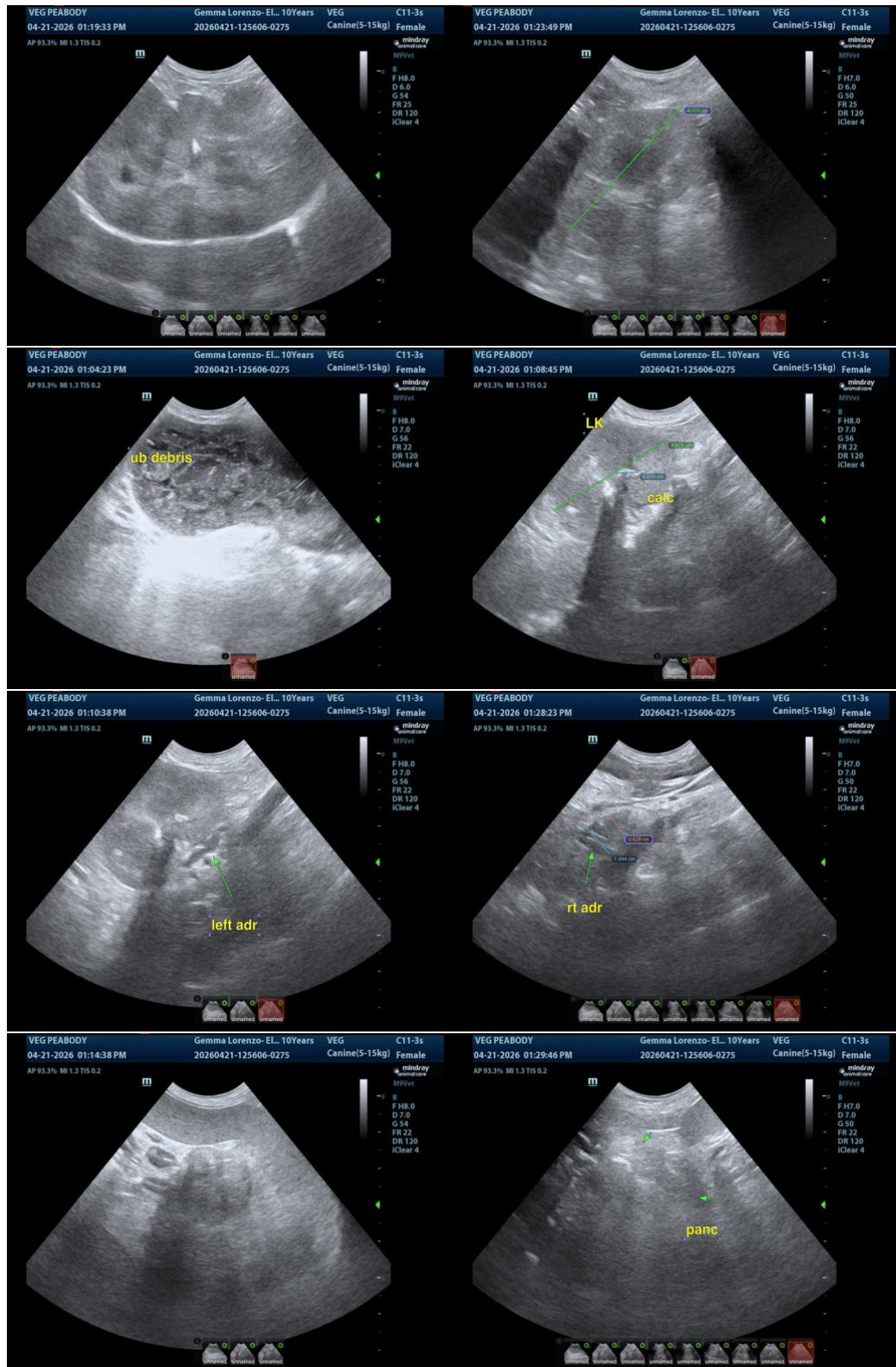
Dr. Melissa Helstein

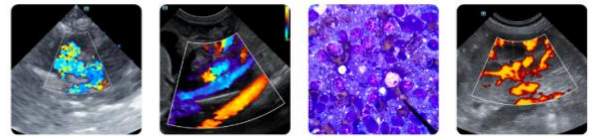
INVOICE

15285

DATE

04/21/26





PATIENT

Gemma Lorenzo

SPECIES

Canine

BREED

Chihuahua

SEX

Spayed Female

AGE

10

WEIGHT

2.55

INTERPRETED BY

Eric Lindquist, DMV,
DABVP(CFM), Cert. IVUSS

IMAGING PERFORMED BY

Dr. Melissa Helstein

HOSPITAL NAME

Veterinary Emergency
Group - Peabody

REFERRING VET

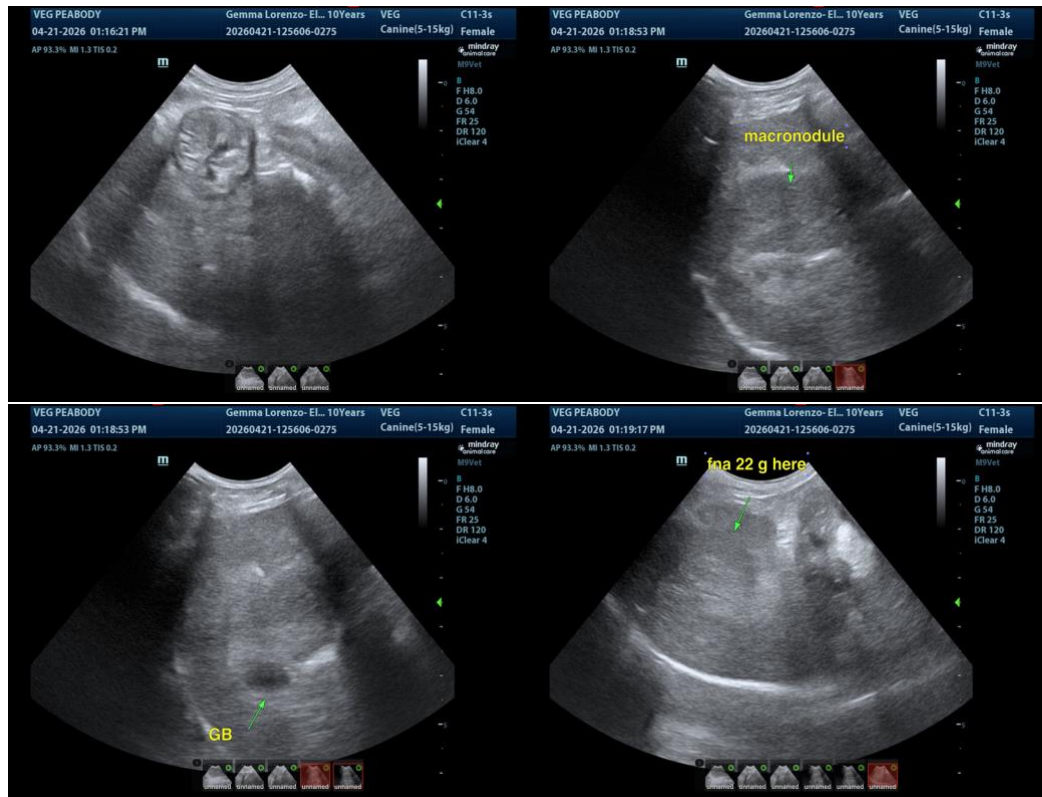
Dr. Melissa Helstein

INVOICE

15285

DATE

04/21/26



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.

Eric Lindquist, DMV, DABVP(CFM), Cert. IVUSS,

CEO, Owner, Founder -- SonoPath.com

info@SonoPath.com