



PATIENT

Matthew Arroyo

SPECIES

Canine

BREED

Westie

SEX

MN

AGE

13yr

WEIGHT

22.4

INTERPRETED BY

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

IMAGING PERFORMED BY

Stacy Sather

HOSPITAL NAME

Emergency Animal
Hospital of Crystal
Falls

REFERRING VET

Dr Butrico

INVOICE

23399

DATE

1/2/2026

PRESENTING CLINICAL SIGNS

Pt presented today for vomiting and lethargy. 2 days ago on walk, pt slumped down and started walking really slow. Also limping on RHL and off balance. Yest morning, pt vomited large amount then wouldn't eat or drink. Ate tiny bit this am. Pt not excited for things that usually excite him. Hard to arouse when sleeping. Pt also not fully releasing bowels for ~1 month (O finds stool on pt rear end frequently). Hx cardiomegaly, bronchial irritation, and either ELE or elevated kidney values (O unsure which). Meds: Gabapentin PRN, Vetmedin, Hydrocodone PRN, and Trifexus. Pt spitting out meds so no Gaba or Vetmedin today

Abnormal PE/Chem/CBC/UA Results: - CBC: anemia (hct 27.4%, hgb 10 g/dL) - Chem/lytes: azotemia (BUN >140 mg/dL, creat 6.9 mg/dl), hyperphosphatemia >15 mg/dl, hypocalcemia 6.4 mg/dL, hyperglycemia 157 mg/dl, ALT 149 U/l, ALP ?993 U/l - PCV/TP: 30%, 7.8 g/dL, clear serum Urinalysis (IH): 1.014, epithelial cells on sediment otherwise quiet - Cystitis panel: submitted to Antech

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.

Normal renal size with asymmetrical margination was present in both kidneys. The renal cortex presented uniformly increased in echogenicity with uniform echotexture. The renal cortex appeared to be hypertrophied resulting in an altered cortex: medulla ratio. Moderate loss of corticomedullary distinction was also present. The renal medullary volume was subjectively reduced. Bilateral areas of medullary mineral were present. Mild bilateral pyelectasia and cortical cysts were present. The left kidney measured 5.4 cm in length. The right kidney measured 6.1 cm in length.

The area of the aortic trifurcation was free of pathology.

The area of the residual prostate appeared normal and free of pathology.

Adrenal Glands

The left and right adrenal glands were not definitively visualized. No obvious pathology was present in the area of the bilateral adrenal glands.

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 presented mildly enlarged in size. The parenchyma of the liver was subjectively normal in echogenicity compared to the spleen and renal cortices. The liver parenchyma was uniform with a mildly coarse echotexture. The capsule of the liver was symmetrically rounded to mildly swollen in



PATIENT

Matthew Arroyo

SPECIES

Canine

BREED

Westie

SEX

MN

AGE

13yr

WEIGHT

22.4

INTERPRETED BY

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

IMAGING PERFORMED BY

Stacy Sather

HOSPITAL NAME

Emergency Animal
Hospital of Crystal
Falls

REFERRING VET

Dr Butrico

INVOICE

23399

DATE

1/2/2026

margination. The hepatic and portal vasculature were normal in appearance without signs of congestion.

The gallbladder was non-distended in size with thin walls and mild to moderate, gravity dependent non-organized debris. The common bile duct was not visualized without overt evidence of dilation or post hepatic obstructive criteria.

Gastrointestinal

The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach contained mild non-shadowing ingesta sonographically suggestive of food echogenicity with no signs of ileus, obstruction 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 mechanical/metabolic ileus, obstruction or foreign material.

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

Pancreas

The area of the pancreas was sonographically normal.

Free Abdomen

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

ULTRASONOGRAPHIC FINDINGS

Primary

- Normal gastrointestinal tract with mild non-shadowing gastric ingesta
- Chronic nephropathy, exhibiting mild medullary mineral, pyelectasia, and cortical cysts
- Hepatopathy-subjective benign
- Non-organized gallbladder debris (non-mucocele)
- Sonographically normal urinary bladder

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Therapy for chronic nephropathy to possible chronic renal failure with hepatogastrointestinal support and clinical monitoring would be appropriate. Further renal staging to include urine C/S and protein: creatinine ratio on sterile urine sample may be considered. No evidence of neoplastic criteria. Adrenal screening with resting cortisol level may be considered.



PATIENT

Matthew Arroyo

SPECIES

Canine

BREED

Westie

SEX

MN

AGE

13yr

WEIGHT

22.4

INTERPRETED BY

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

IMAGING PERFORMED BY

Stacy Sather

HOSPITAL NAME

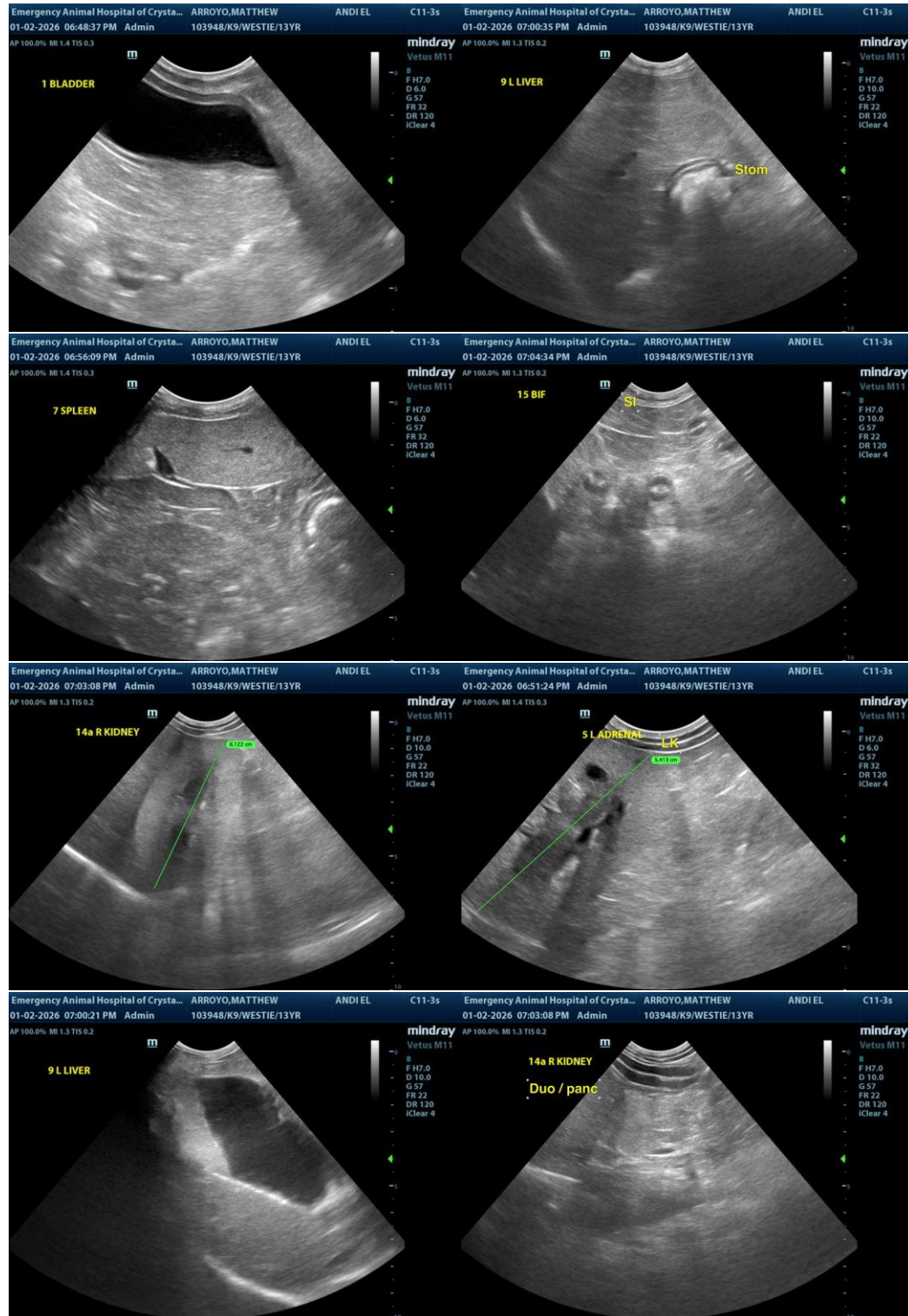
Emergency Animal
Hospital of Crystal
Falls

REFERRING VET

Dr Butrico

INVOICE
23399

DATE
1/2/2026



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



PATIENT

Matthew Arroyo

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.

SPECIES

Canine

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

BREED

Westie

SEX

MN

AGE

13yr

WEIGHT

22.4

INTERPRETED BY

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

IMAGING PERFORMED BY

Stacy Sather

HOSPITAL NAME

Emergency Animal
Hospital of Crystal
Falls

REFERRING VET

Dr Butrico

INVOICE 23399

DATE
1/2/2026