

PATIENT

Coco Irons

SPECIES

Canine

BREED

French Bulldog Mix

SEX

FS

AGE

10

WEIGHT

12.3kg

INTERPRETED BY

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

IMAGING PERFORMED BY

Dr Gira

HOSPITAL NAME

Fish Creek Emergency

REFERRING VET

Dr McKay

INVOICE

24052

DATE

03/01/2026

PRESENTING CLINICAL SIGNS

- Patient presented for acute onset of vomiting. Her owners report that vomiting started the morning of February 28th. Coco vomited 4 - 5 times and was breathing heavily after the first episode. Previously healthy. Not on any medications. No C/S/D. On a raw diet.
- On presentation, HR 280-300, stertorous breathing, but eupneic. Mildly tense abdomen. ECG showed ventricular tachycardia, which resolved with a single dose of lidocaine. Occasional VPCs are seen on overnight ECG.
- Abnormal PE/Chem/CBC/UA Results: Blood work showed marked hemoconcentration (Hct 71%) with mild elevation in BUN (10.6), crea 108, mild hypochloremia (108), and moderate elevation in ALT (506). Rads: Concl: Mild diffuse bronchointerstitial pulmonary pattern. No active bronchopulmonary infiltrate is noted, but aspiration pneumonitis/any aspiration pneumonia is possible with this clinical. The unusual cardiac shape could be incidental/conformational, but in light of the arrhythmia, concurrent cardiomyopathy is possible. Pulmonary hypertension or pleural effusion are possible. No supporting features of left heart failure or noted. Small spleen consistent with hypovolemia (severe). Mild equivocal hepatomegaly. The GI changes are consistent with nonspecific functional ileus and diarrhea/colitis.

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 size and margination were 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 4.5 cm in length. The right kidney measured 4.5 cm in length.

The area of the aortic trifurcation was free of pathology.

Adrenal Glands

The bilateral adrenal glands were mildly enlarged in size. Mild parenchyma heterogeneity and mild capsule asymmetry was present without suspicion for overt neoplasia. A mildly expansive hyperechoic nodule was present in the right adrenal gland with mild associated symmetrical capsule expansion. The nodule did not exhibit signs of mineralization or vascular invasion. The nodule measured 1.6 x 1.4 cm. The left adrenal gland measured 0.79 cm width in the caudal pole. The right adrenal gland measured 0.76 cm width in 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.



PATIENT

Liver/Gallbladder

Coco Irons

The liver presented subjective mildly enlarged in size. The hepatic parenchyma revealed 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 primarily anechoic luminal content. The cystic and common bile ducts were normal.

SPECIES

Canine

BREED

French Bulldog Mix

Gastrointestinal

The stomach presented intact mildly prominent wall. The lumen of the stomach contained moderate retained gastric fluid with no obvious visualized obstruction to pyloric outflow.

SEX

FS

The small intestine presented intact wall layering with maintained muscularis/mucosa ratio. Duodenojejunal hyperechoic mucosal speckling was present. 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 soft feces in lumen.

AGE

10

Pancreas

The pancreas was normal in size and contour with isoechoic to heterogeneous parenchyma compared to adjacent omentum. No signs of active inflammation or neoplasia.

WEIGHT

12.3kg

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

- Hypoechoic liver - acute or acute on chronic hepatopathy, nonspecific hepatitis (viral, bacterial, Lepto, toxin), congestion, occult neoplasia, other
- Normal gallbladder
- Moderate hypomotile stomach
- Nonspecific enteropathy exhibiting duodenojejunal mucosal speckling - enteritis, IBD, PLE, infectious, occult neoplasia
- Soft fecal matter in colon
- Heterogeneous pancreas - remodeling owing to age or previous inflammation, possible chronic pancreatitis
- Bilateral mild adrenomegaly with right adrenal nodule - hyperplasia, adenoma, emerging right adrenal tumor

Secondary

- Mild chronic renal changes

IMAGING PERFORMED BY

Dr Gira

HOSPITAL NAME

Fish Creek Emergency

REFERRING VET

Dr McKay

INVOICE

24052

DATE

03/01/2026

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

No obvious pyloric or gastrointestinal obstruction which may suggest metabolic gastric ileus secondary to hepatopathy, chronic pancreatitis, enteropathy or combination. Further assessment of the liver may include FNA cytology and Leptospirosis titers / PCR. Monitoring of albumin levels and a GI panel are



PATIENT

Coco Irons

SPECIES

Canine

BREED

French Bulldog Mix

SEX

FS

AGE

10

WEIGHT

12.3kg

INTERPRETED BY

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

IMAGING PERFORMED BY

Dr Gira

HOSPITAL NAME

Fish Creek Emergency

REFERRING VET

Dr McKay

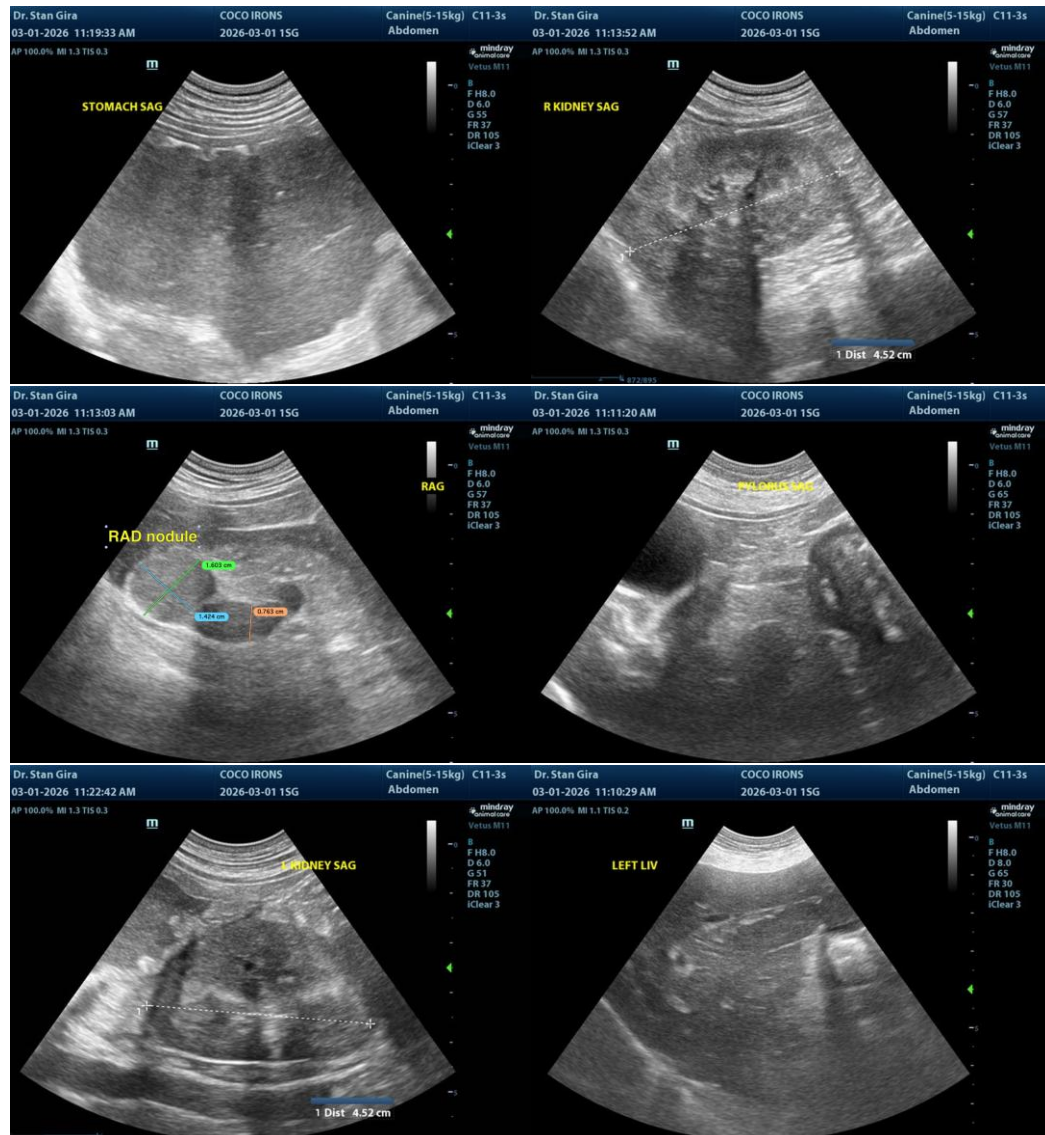
INVOICE

24052

DATE

03/01/2026

warranted. Serial blood pressure measurements are warranted given right adrenal nodule. If hypertension is present i.e. systolic pressure >160 then urine metanephrine level is indicated to assess for pheochromocytoma. If the patient appears Cushingoid then work-up for adrenal dependent Cushing's is indicated. Recheck or consideration of upper GI endoscopy is recommended if persistent or progressive gastric ileus.





PATIENT

Coco Irons

SPECIES

Canine

BREED

French Bulldog Mix

SEX

FS

AGE

10

WEIGHT

12.3kg

INTERPRETED BY

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

IMAGING PERFORMED BY

Dr Gira

HOSPITAL NAME

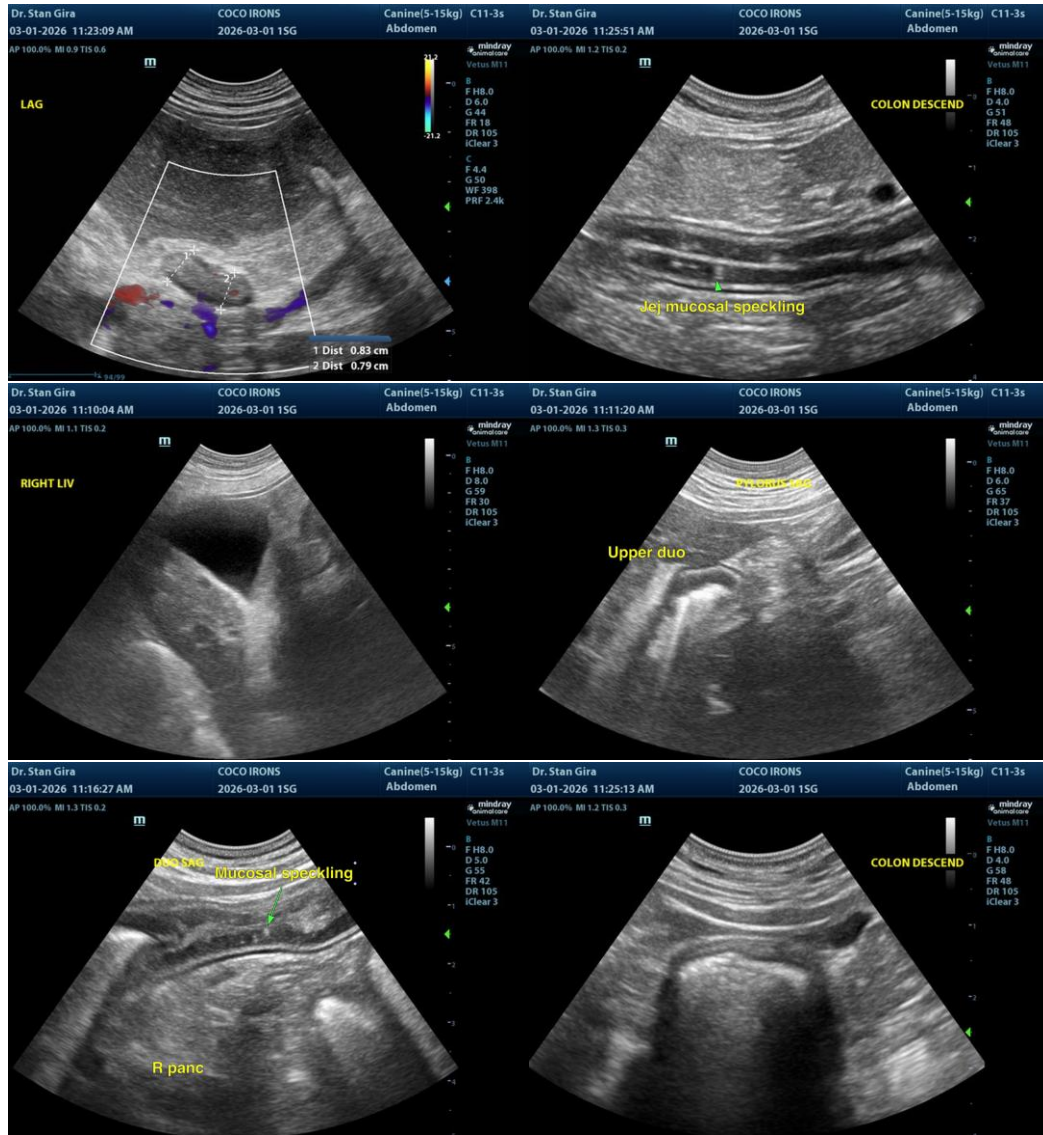
Fish Creek Emergency

REFERRING VET

Dr McKay

INVOICE
24052

DATE
03/01/2026



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 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