



PATIENT

Bella Cardos

SPECIES

Canine

BREED

Chihuahua

SEX

Spayed Female

AGE

11 Years

WEIGHT

5.3 kg

INTERPRETED BY

Tam Mengine, DVM,
DABVP (canine/feline
practice)

**IMAGING
PERFORMED BY**

Dr. Sarah Barthelemy

HOSPITAL NAME

Alpine 24 Hours VH

REFERRING VET

Dr. Anthony

INVOICE

44225

DATE

1/14/23

PRESENTING CLINICAL SIGNS

Dx with diabetes mellitus 6 weeks ago and has been on unknown dose of insulin. 3 days ago became hyporexic, lethargic, painful and onset of some upper resp signs.

Abnormal PE/Chem/CBC/UA Results: Mild non-regen anemia, marked leukocytosis characterized by neutrophilia, monocytosis. Hyperglycemia, BUN elevation, moderate ALP elevation, marked amylase and lipase elevations. Hypophosphatemia. Abdominal discomfort, 8% dehydration.

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder is moderately distended with anechoic urine, and no luminal sediment is present. The ureteral papillae, trigone and pelvic urethra (visible to 3.0 cm) are of normal appearance, and the ureters are not visible (normal). No masses, calculi or mucosal irregularities are noted.

Both kidneys are hyperechoic and exhibit mildly decreased corticomedullary differentiation. There is trace pyelectasia in the left kidney. There is a 5.0 mm cortical cyst in the right kidney. There is no evidence of mineralization, nephrolithiasis, or hydronephrosis. The proximal ureters are not visible (normal). The left kidney is 3.8 cm in length. The right kidney measures 4.1 cm in length.

Adrenal Glands

The adrenal glands are both identified in their normal locations. They are at the upper limits of normal size and shape with appropriate parenchymal echogenicity and normal phrenic vasculature. The left adrenal gland height is 4.5 mm at the cranial pole and 6.0 mm at the caudal pole. The right adrenal gland is 5.1 mm at the cranial pole and 6.5 mm at the caudal pole.

Spleen

The spleen is of appropriate size and has a normal, homogenous parenchyma with a smooth, continuous capsular surface. The splenic vasculature is normal with no evidence of congestion or thrombosis, and blood flow through the splenic hilus appears normal.

Liver

The liver is diffusely hyperechoic and subjectively enlarged. The portal and hepatic vasculature are of normal size and appearance with no evidence of congestion or thrombosis.

The gallbladder is moderately distended with anechoic contents. The wall was thin and continuous with no focal lesions. The cystic and common bile ducts are normal / not visible.

Gastrointestinal

The stomach is empty. The gastric wall is normal in thickness (4.3 mm) with normal deviations due to rugal folds, and exhibits appropriate wall layering. The pylorus is of normal appearance.

The visualized portions of the duodenum, jejunum, and ileum are of normal thickness with intact wall layering that exhibits the appropriate 1:3 muscularis to mucosa ratio. Duodenum wall measures 3.7 mm. Jejunum wall measures 3.3 mm. Intestinal motility appears normal.

The visible portions of the colon are of normal thickness (1.6 mm) with intact wall layering. The ileocecal junction is visualized and normal.



PATIENT

Pancreas

Bella Cardos

The entirety of the pancreas is swollen and hypoechoic, surrounded by hyperechoic mesenteric fat. The pancreatic duct appears normal.

SPECIES

Canine

Free Abdomen

There is no evidence of free fluid within the peritoneal cavity. The omentum and intra-abdominal fat are of appropriate echogenicity. Enlarged abdominal lymph nodes are not observed. The aortic trifurcation has normal blood flow with no evidence of thrombosis.

BREED

Chihuahua

PRIMARY FINDINGS

SEX

- Swollen, hypoechoic pancreas with surrounding inflammation

Spayed Female

SECONDARY FINDINGS

AGE

- Mild chronic renal changes, with trace pyelectasia in the left kidney

11 Years

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

WEIGHT

5.3 kg

The changes in the pancreas are consistent with pancreatitis. Recommendations include:

- ❖ a cPLI level is recommended for confirmation and monitoring purposes.
- ❖ supportive care including fluid therapy, anti-emetics, analgesics, appetite stimulants (if needed) are warranted.
- ❖ a highly digestible, low fat intestinal diet should be encouraged as soon as vomiting can be controlled.
- ❖ complications such as hypoalbuminemia, hyperglycemia and hypokalemia should be managed as they arise.
- ❖ if the patient is not responding to medical management, fine needle aspiration with a 25G needle for cytology could be considered after first checking a coagulation profile.

INTERPRETED BY

Tam Mengine, DVM,
DABVP (canine/feline
practice)

The adrenal glands are at the upper limits of size for this patient. This is most likely due to the physiologic stress of diabetes, but if the diabetes becomes difficult to regular, then an ACTH stim test would be recommended to rule out Cushing's disease.

IMAGING PERFORMED BY

Dr. Sarah Barthelemy

The changes in the kidneys are consistent with chronic renal disease. The pyelectasia noted in the left kidney may be due to fluid therapy, or from the diuresis associated with diabetes mellitus, but could also indicate pyelonephritis. Thus, a urinalysis is recommended if not already performed, and a urine culture if indicated. A blood pressure measurement is also recommended.

HOSPITAL NAME

Alpine 24 Hours VH

REFERRING VET

Dr. Anthony

- ❖ a CBC, chemistry panel, urinalysis, urine protein creatinine ratio and blood pressure measurement are recommended
- ❖ urine culture should also be considered, particularly if urine sediment is active
- ❖ dietary and supportive care recommendations can be made, based on the staging of the disease as outlined in the IRIS guidelines

INVOICE

44225

DATE

1/14/23



PATIENT

Bella Cardos

SPECIES

Canine

BREED

Chihuahua

SEX

Spayed Female

AGE

11 Years

WEIGHT

5.3 kg

INTERPRETED BY

Tam Mengine, DVM,
DABVP (canine/feline
practice)

**IMAGING
PERFORMED BY**

Dr. Sarah Barthelemy

HOSPITAL NAME

Alpine 24 Hours VH

REFERRING VET

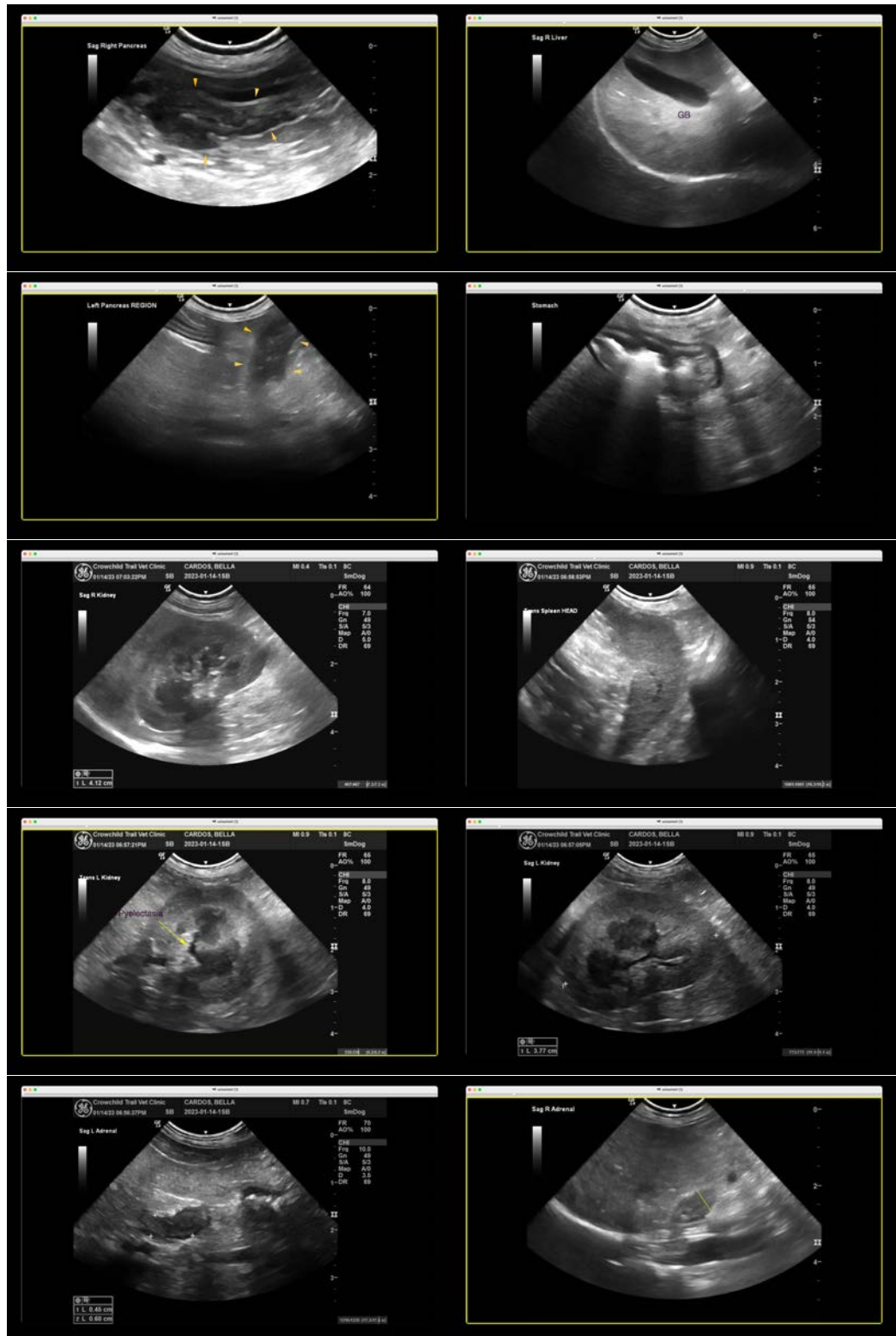
Dr. Anthony

INVOICE

44225

DATE

1/14/23





PATIENT

Bella Cardos

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.

SPECIES

Canine

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.

BREED

Chihuahua

Tam Mengine, DVM, DABVP (canine/feline practice)

info@SonoPath.com

SEX

Spayed Female

AGE

11 Years

WEIGHT

5.3 kg

INTERPRETED BY

Tam Mengine, DVM,
DABVP (canine/feline
practice)

**IMAGING
PERFORMED BY**

Dr. Sarah Barthelemy

HOSPITAL NAME

Alpine 24 Hours VH

REFERRING VET

Dr. Anthony

INVOICE

44225

DATE

1/14/23