



PATIENT PRESENTING CLINICAL SIGNS

Elsa Lee
Owner reports panting at night and excessive urination for 5 days.
Abnormal PE/Chem/CBC/UA Results: ALP 225, PSL 163, cholesterol 397, trigs 1079. U/A: pH 7.5, WBC 2-3. Urine culture pending.

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The **urinary bladder** is well distended with anechoic contents. The wall is smooth and regular. There is no evidence of sediment, cystoliths, polyps or a mass within the urinary bladder. No abnormalities are noted with the trigone or the proximal two to three centimetres of the urethra, however, the urethra caudal to this region appears distended or dilated, with irregular contours.

BREED

Chihuahua

SEX

Spayed Female

Kidneys

The **left kidney** measures 3.60 cm. The capsule is smooth. Its overall architecture, including the definition of the cortico-medullary junction, is preserved. There are no signs of nephroliths or pyelectasia. The surrounding mesentery is not hyperechoic.

AGE

8 Years

The **right kidney** measures 3.30 cm. Its overall architecture, including the definition of the cortico-medullary junction, is preserved. There are no signs of nephroliths or pyelectasia. The surrounding mesentery is not hyperechoic.

WEIGHT

13.2 Pounds

Aortic bifurcation/trifurcation No abnormalities observed.

Adrenal Glands

INTERPRETED BY

Lisa Carioto, DVM,
DVSc, Diplomate
ACVIM

The **left adrenal gland** measures 0.51 cm at the cranial pole, 0.43 cm at the caudal pole and 1.72 cm in length. A well-circumscribed nodule is noted at the cranial pole. It does not have criteria of consistent a mass. No abnormalities are noted with the gland's overall architecture, echogenicity or echotexture. The phrenico-abdominal vein and surrounding vasculature and mesentery are unremarkable.

IMAGING PERFORMED BY

Kelly Vazquez

The **right adrenal gland** measures 0.81 cm at the cranial pole, 0.33 cm at the caudal pole and 1.27 cm in length. No abnormalities are noted with the gland's overall architecture, echogenicity or echotexture. The phrenico-abdominal vein and surrounding vasculature and mesentery are unremarkable.

HOSPITAL NAME

Animal General
on the Hudson

Spleen

The spleen is within normal limits in size, architecture, echotexture, and echogenicity. The capsule is smooth. No abnormalities are observed with its vasculature, i.e. congestion and thrombi are not identified.

REFERRING VET

Dr. Stefanie Lang

Liver

Mild hepatomegaly is suspected, however, this is better characterized at the time of the ultrasound or radiographically. The liver's borders are smooth and sharp. The liver's echotexture is homogeneous and it is within normal limits in echogenicity. Focal lesions are not observed and no abnormalities are observed with the hepatic vessels.

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The **gallbladder (GB)** is mildly dilated (consistent with a fasted individual). A very small amount of echogenic material is present within the GB. The cystic and common bile ducts are not observed, however, there are no signs of an obstruction.

DATE

8/3/22



PATIENT

Elsa Lee

Gastrointestinal

A large amount of gas and fluid are present within the lumen of the stomach. The gastric wall is within normal limits in thickness and the wall layers are well defined. No obvious abnormalities are observed with its peristalsis.

SPECIES

Canine

Jejunum: wall thickness is within normal limits and the definition of the wall layers is preserved. Abnormally dilated loops of bowel are not observed.

BREED

Chihuahua

A large amount of gas is present in the transverse colon.

The colonic wall is not thickened and mural detail is considered normal. Gas and semi-formed stools are present in the colon.

SEX

Spayed Female

Pancreas

The **right limb** is not enlarged, but is very mildly hypoechoic. Its contours are smooth. A well-defined hyperechoic triangular region is noted dorsally, which is suggestive of an infarct. The surrounding mesentery is mildly hyperechoic.

AGE

8 Years

Other

Lymph nodes No abnormalities are observed

Abdominal effusion is not visualized.

WEIGHT

13.2 Pounds

ULTRASONOGRAPHIC FINDINGS

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- **Urinary bladder:** No abnormalities are noted with the urinary bladder, however, the distal portion of the urethra has irregular contours and is suggestive of a mass lesion, e.g. neoplasia (leiomyoma, leiomyosarcoma), abscess, granuloma, etc. Granulomatous urethritis cannot be excluded despite the absence of acoustic enhancement.
- **Adrenal glands:** The nodule at the cranial pole of the left gland appears benign. An adenoma is suspected. The shape of the cranial pole of the right gland is wide, square and enlarged, but is not uncommon. A mass is not observed. Further diagnostics for pituitary dependent hyperadrenocorticism (HAC) may be considered if Elsa continues to demonstrate excessive panting, pu/pd, polyphagia or if proteinuria and hypertension are present.
- **Liver:** Possible hepatomegaly, however, no other abnormalities observed. See adrenal glands regarding diagnostics for HAC.
- **Gastrointestinal (GI) tract:** The gas in the stomach may be due to aerophagia secondary to panting and possibly pain. Elsa's clinical signs may have been due to intestinal cramps and pain and may develop diarrhea based on the soft stools in the colon. A foreign body is not visualized.
- **Pancreas:** A subtle pancreatitis of the right limb cannot be excluded.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

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Monitor Elsa for cramps, other signs of abdominal discomfort and diarrhea.

Urine culture and sensitivity pending

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Vaginal exam, followed by a rectal palpation to palpate urethra if the vaginal exam does not yield information.



PATIENT

Elsa Lee

Cystoscopy or fluoroscopy may be required. If this is not an option then double contrast cystourethrogram may be considered.

SPECIES

Canine

Assess arterial blood pressure and exclude proteinuria if signs suggestive of pituitary HAC. Do not perform UPC until current urinary issue has been addressed.

BREED

Chihuahua

+/- further diagnostics for pituitary HAC *if* Elsa is demonstrating clinical signs or if hypertensive or proteinuric. Do not perform tests until current urinary issue has been addressed.

SEX

Spayed Female

AGE

8 Years

WEIGHT

13.2 Pounds

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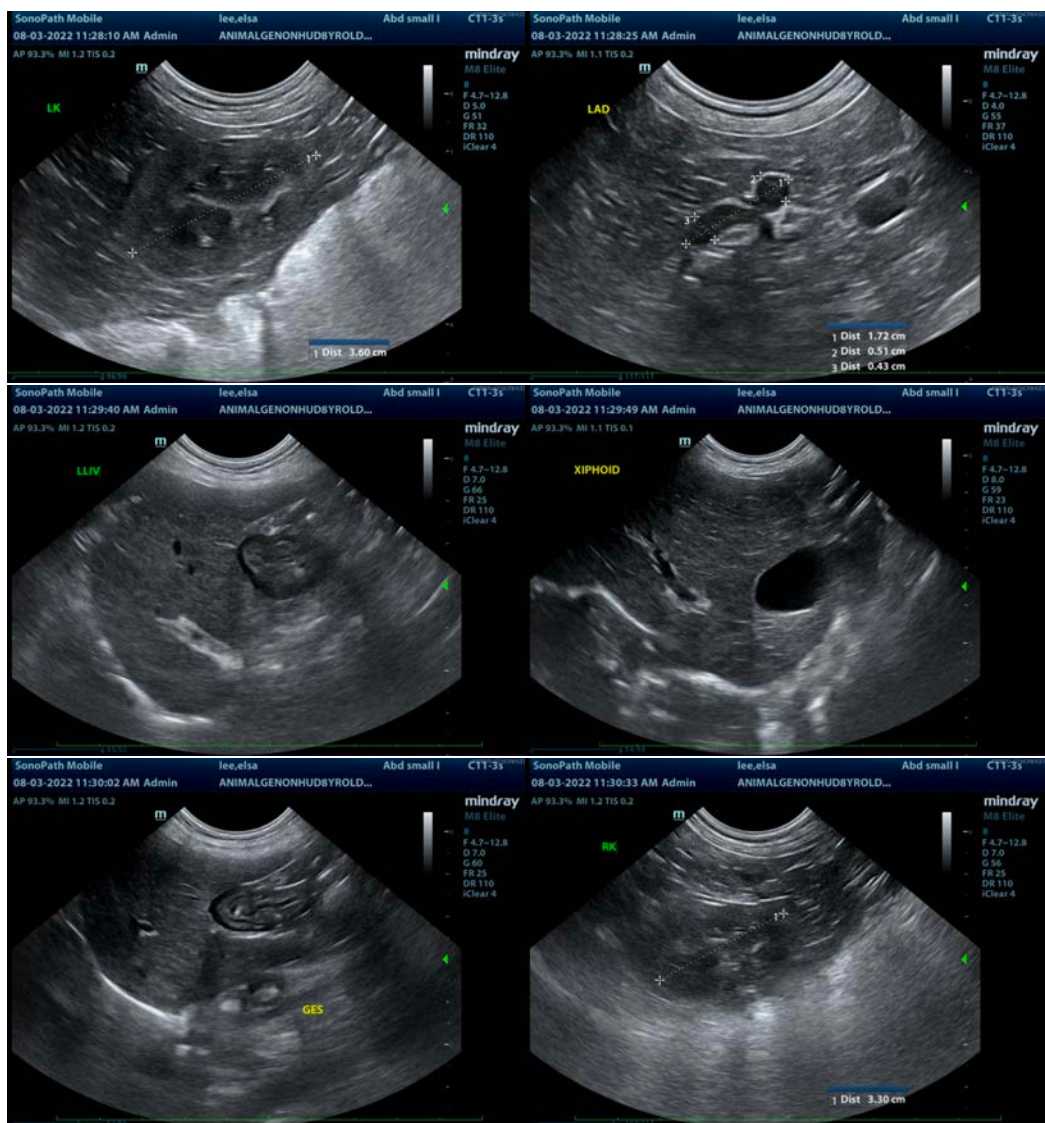
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PATIENT

Elsa Lee

SPECIES

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BREED

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AGE

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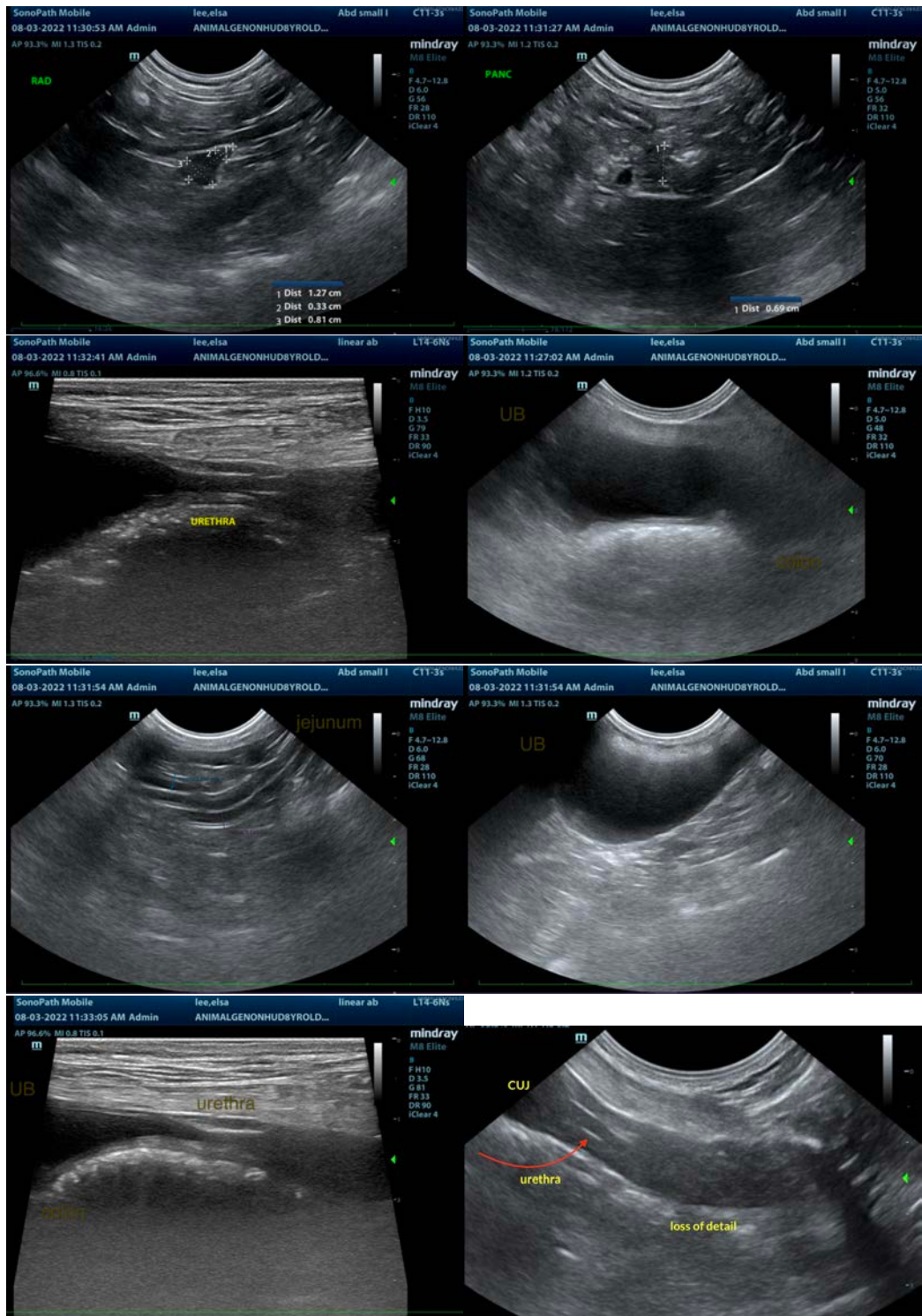
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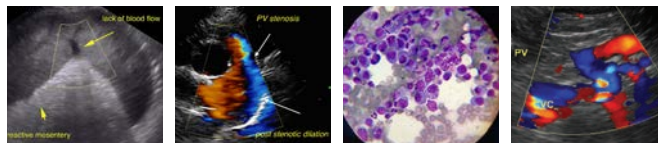
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.



PATIENT

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Elsa Lee

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SPECIES

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Chihuahua

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Spayed Female

AGE

8 Years

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