



## PATIENT

Mia Hainey

## PRESENTING CLINICAL SIGNS

## SPECIES

Canine

## BREED

Bernese Mt. Dog

## SEX

Intact Female

## AGE

8 years

## WEIGHT

95 lbs

History: 24h history urgency to urinate. Cystic lesion seen in abdomen on AFAST. Intact female currently in heat per O. O fell on her abdomen two days ago when he slipped in snow. Mia cried out but hasn't had any lameness or signs of pain since. Last night and this morning Mia was urgently asking to go outside and she would squat to urinate right away. O did not appreciate any straining or blood in urine. AFAST for u/s guided cysto revealed a cystic lesion in the mid-cranial abdomen with an apparent fluid filled capsule around in. Bladder appeared WNL on brief flash. O agrees to pursue AUS. Good app/energy. No C/S/V/D. No hx/meds reported. CBC unremarkable Chem normal. T4 normal.

General Appearance: Bright, alert and responsive; BCS 6/9; hydrated Eyes: Corneas clear, pupils normal size, symmetrical; sclera white, no ocular discharge, third eyelid slightly elevated OS, O reports this is normal for Mia Ears: No exudate observed; no redness present Integument: Normal amount of shedding; skin looks normal; hair coat in good condition Oral Cavity: Teeth are free from excessive tartar; gums are pink and moist; no gingivitis present Lymphatics: Lymph nodes all normal size

Cardiovascular: Regular rhythm; no murmur detected; strong femoral pulses; CRT < 2 sec Musculoskeletal: Ambulates normally Gastrointestinal: Cystic lesion seen in cranial abdomen on AFAST, Normal eliminations; palpates normally Urogenital: Urgency to urinate past 24h, intact female currently in heat Respiratory: Lungs auscultate clear; trachea clear Neurologic: Mild third eyelid elevation OS, unknown significance, no other abnormal neuro finding

## ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

## INTERPRETED BY

Andrea Nicastro, DVM,  
Diplomate ACVIM (*Small  
Animal Internal Medicine*)

### Urinary System

The urinary bladder and visible portion of the pelvic urethra are normal for the degree of luminal distension. The urine is anechoic with no evidence of debris. Cystic calculi and discrete masses are not observed. The region of the trigone and the visualized portion of the proximal urethra are normal.

## IMAGING PERFORMED BY

Loetitia Saint-Jacques, RVT

The left kidney is normal size (7.87 cm in length); normal shape and architecture with smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with minimal loss of corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter.

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Donner Truckee VH

The right kidney is normal size (4.77 cm in length); with a slightly irregular shape and architecture with smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with minimal to mild loss of corticomedullary distinction. A cortical infarct is observed at caudal pole. There is no evidence of pyelectasia, nephroliths or hydroureter.

## REFERRING VET

Dr. Jen Anderle

### Adrenal Glands

The left adrenal gland is normal size (0.61 cm at cranial pole) (0.59 cm at caudal pole) (3.21 cm in length); normal shape; homogenous parenchyma. The glandular echogenicity and detail are unremarkable. Capsule, cortex, and medullary definition are normal. The phrenicoabdominal vein and surrounding vasculature are normal.

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The right adrenal gland is normal size (1.22 cm at cranial pole) (0.57 cm at caudal pole) (3.81 cm in length); with a slightly irregular shape. There is a 1.14 x 1.06 cm hyperechoic nodule is observed at the

## DATE

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**PATIENT**

Mia Hainey cranial pole. Glandular echogenicity and detail at the caudal pole are normal. Surrounding vasculature is normal.

**SPECIES**

**Spleen**

Canine

The spleen is normal in size (2.12 cm in width at the level of the hilus) with a normal capsular contour. There is appropriate echogenicity and echotexture. No focal lesions are observed. Splenic vasculature is normal.

**BREED**

**Liver**

Bernese Mt. Dog

The liver is subjectively normal in size with normal contours and structure. There is appropriate echogenicity and echotexture. No overt structural evidence of inflammatory, infiltrative, or regenerative pathology is evident. Vascular and biliary tracts are of normal volume with no evidence of congestion. No pathological hepatic lymphadenopathy observed.

**SEX**

Intact Female

The gall bladder is of normal contours and contains some dependent echogenic debris. The wall is normal in thickness. No choleliths are observed. The cystic and common bile ducts are normal/not seen.

**AGE**

8 years

**Gastrointestinal**

The gastric lumen is not distended. The gastric wall is normal in thickness with a normal layering pattern. The small intestinal lumen is not dilated. The small intestinal wall thickness is normal with a normal layering pattern and appropriate mural detail. Discreet masses are not identified. The colonic wall is normal. No obstructive or overt infiltrative disease is noted.

**WEIGHT**

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**Pancreas**

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Diplomate ACVIM (Small  
Animal Internal Medicine)

The region of the pancreas is isoechoic relative to surrounding omental fat. No obvious parenchymal abnormalities are observed. There is no evidence of regional inflammation or effusion.

**Free Abdomen**

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The peritoneal cavity is normal. There is no evidence of inflammation or effusion.

**Lymph nodes**

Loetitia Saint-Jacques, RVT

There is no obvious evidence of free fluid. A >9 cm thin-walled fluid-filled structure is observed within the midabdominal cavity. Within this structure a separate area of separated cysts is observed. This portion is vascular. One to two prominent medial ileac lymph nodes are visualized, the largest measuring 1.83 cm in length. (Also, see "Other" category).

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**Other**

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The left ovary is normal in size (1.73 x 1.39 cm), with a normal shape and smooth peripheral contours. The left ovary is anechoic/cystic. No obvious pathology is observed. The right ovary is subjectively normal in size (3.45 x 1.46 cm), with a normal shape. A few cystic areas are observed within the parenchyma. The uterine horns and body are mildly fluid distended. The left uterine horn measures 0.64 cm in width. The right uterine horn measures 0.90 cm in width. The uterine body measures 1.33 cm in width.

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A brief echocardiogram reveals no evidence of pericardial effusion.

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**SPECIES** **ULTRASONOGRAPHIC FINDINGS**

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Loetitia Saint-Jacques, RVT

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**Primary Findings**

- The origin of the fluid filled structure in the midabdominal cavity is unclear. It may be arising from the mesentery, lymph node, reproductive structures, other. Differentials include, abscess, benign cyst, nephrotic tumor, hematoma, other.

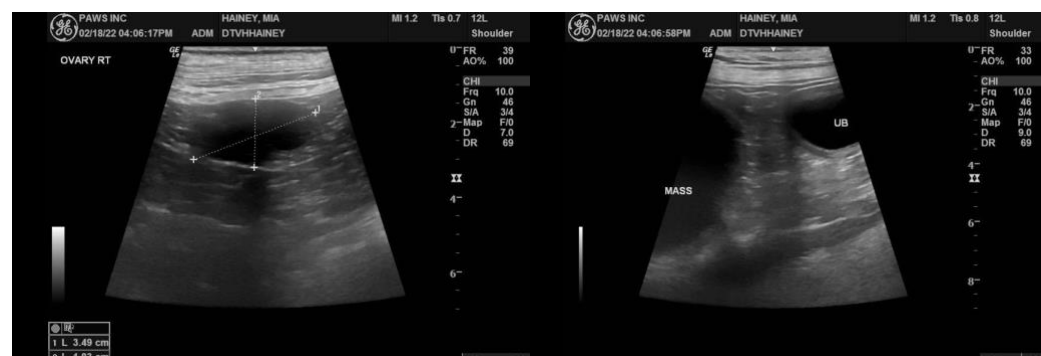
- The reproductive tract is as expected for a dog in heat.

**Secondary Findings**

- Minor bilateral age-related renal changes with a right cortical infarct.
- The right adrenal nodule trends toward the benign (i.e, nodular hyperplasia). However, an emerging tumor cannot be excluded.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

- Three-view thoracic radiographs are recommended to assess for pulmonary metastases.
- If an aggressive approach is desired, consider an abdominal exploratory with removal of the cystic structure, along with an ovarian hysterectomy.
- If a more conservative approach is desired, consider supportive care with a repeat ultrasound in 5-7 days to reassess the lesion.
- Given the patient's age, baseline lab work, including a CBC Chemistry panel, urinalysis is recommended to assess overall metabolic function.





Portable Animal Wound Sonography, Inc.

IMAGING PERFORMED BY  
pawsonography@gmail.com 530-786-8340

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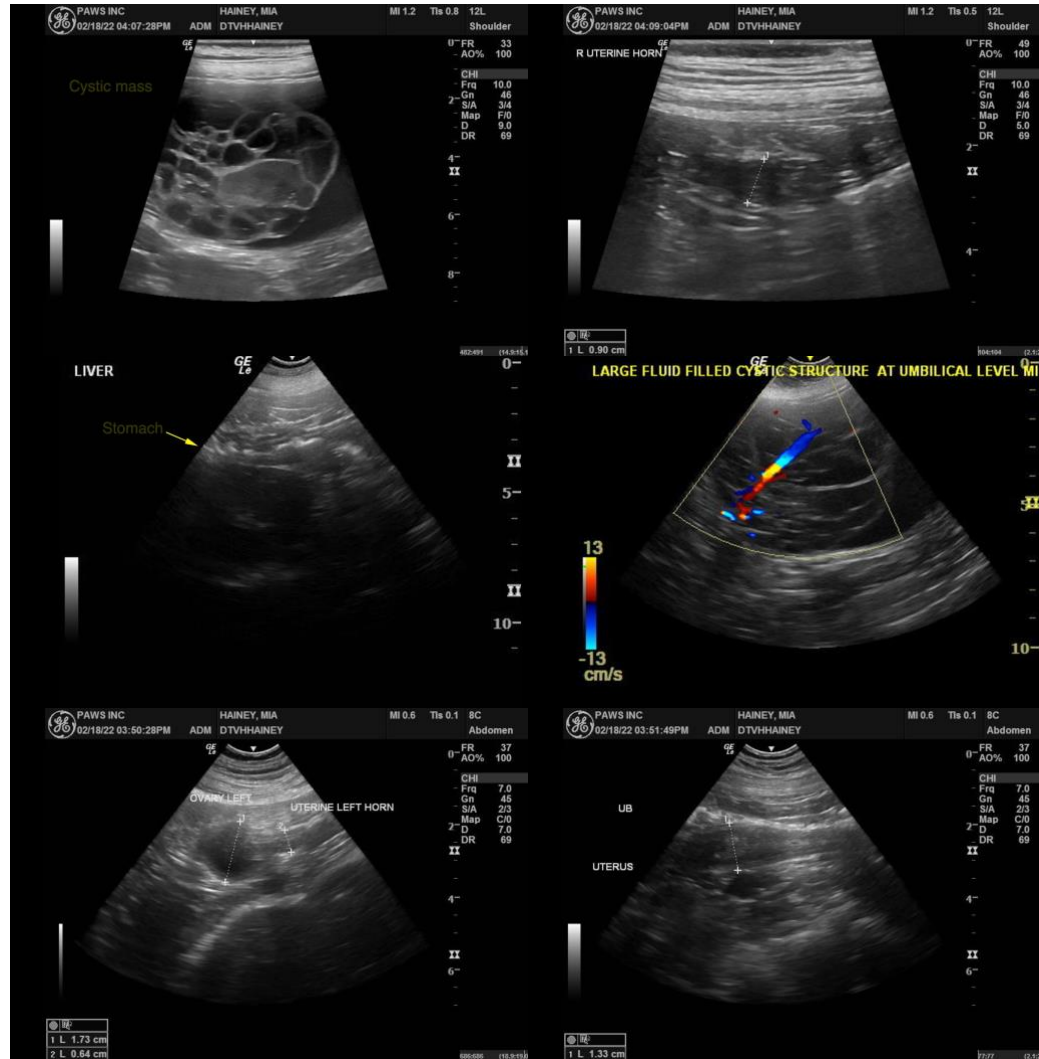
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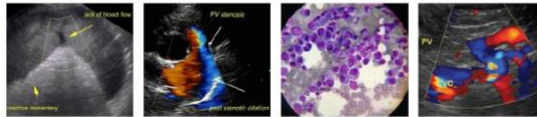
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Mia Hayney

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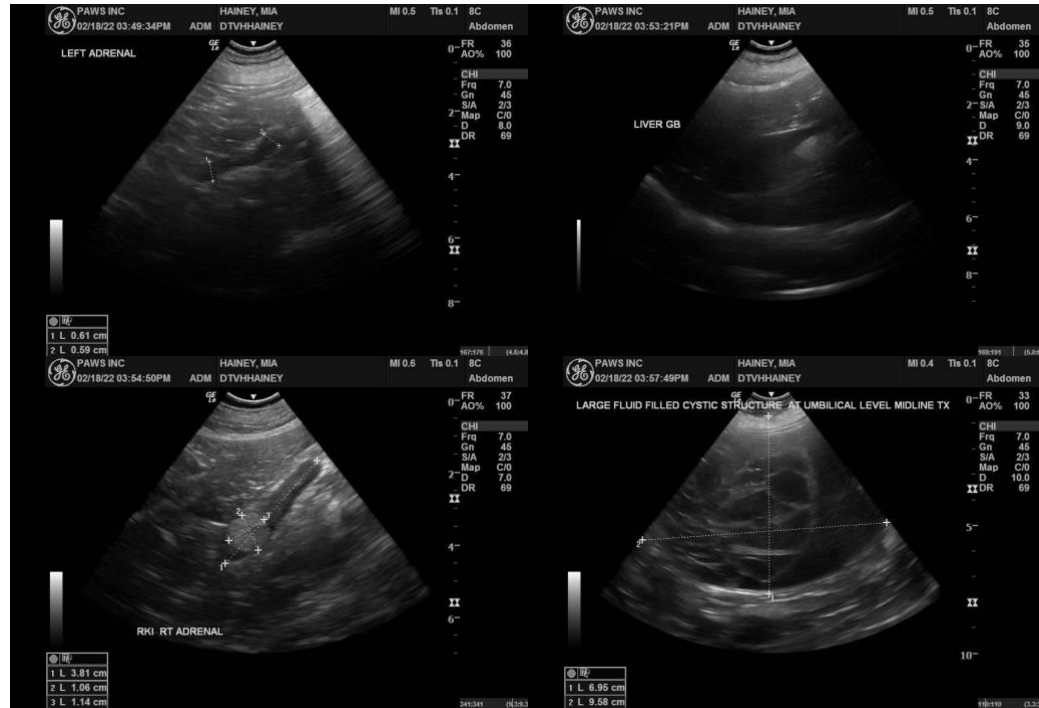
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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