

PATIENT PRESENTING CLINICAL SIGNS

Helga Gibson

SPECIES

Canine

BREED

Dogue De Bordeaux

SEX

Intact Female

AGE

5 Years

WEIGHT

43.6 kg

INTERPRETED BY

Beth Johnson, DVM
DACVIM

IMAGING PERFORMED BY

Kelly Reschny

HOSPITAL NAME

Hamilton Region VEC

REFERRING VET

Dr. Grewal

INVOICE

21942

DATE

4/11/23

History: Patient presented to HREVC on 4/10/2023 for 2 week history of ADR + vomiting. B/W with rDVM revealed azotemia, no UA performed at this time. Patient started on Cephalexin for suspected kidney infection per owner. Up to date on vaccines including leptospirosis. Intact female with last heat 4-6 months ago. Tense abdomen, unable to evaluate for organomegaly or masses. Current Medications IVF 2XM + Cerenia + Pantoprazole + Methadone + Ampicillin

Abnormal PE/Chem/CBC/UA Results: Blood work 4/10/2023 @ 3 pm: CBC: Mild elevation RBC 9.02 (rr: 5.65-8.87) Moderate lymphopenia 0.68 (rr: 1.05-5.10) Moderate eosinopenia 0.02 (rr: 0.06-1.23) Moderate thrombocytopenia 61 (rr: 148-484) with elevated MPV 16.7 (rr: 8.7-13.2) and low PCT 0.10 (rr: 0.14-0.46) Chemistry: Marked elevation SDMA 57 + Creatinine 337 + BUN 21.8 MARKED hypercalcemia >4 (rr: 1.98-3) Mild hyponatremia 141 (rr: 144-160) Mild hypochloremia 105 (rr: 109-122) Urinalysis 4/10/2023 @ 3 pm: USG 1.014 -> isosthenuria -> renal vs other Suspected Cocci -> confirmed none detected with bacterial confirmation kit. >1/LPF Non-Hyaline Casts Blood Smear analyzed by technician on new sample @ 8 am 4/11/2023: Consistent with thrombocytopenia noted on B/W. Urine Culture: PENDING

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

Urinary bladder is adequately distended. It has a normal uniform wall thickness. Contents include primarily anechoic fluid with occasional echogenic non-shadowing debris, most consistent with exfoliated cells, mucous and/or small blood clots. Both sterile inflammation as well as urinary tract infection can also present with echogenic debris. No masses or cystoliths are observed. The trigone and visible pelvic urethra are normal in thickness with a smooth mucosal surface.

Kidneys are normal in size and contour. A relatively uniform hyperechogenicity is observed with mildly decreased corticomedullary distinction. There is no pyelectasia noted and no mineral is observed. No overt masses/nodules are observed. The left kidney measures 10.03 cm. The right kidney measures 8.46 cm.

Adrenal Glands

Left adrenal gland is normal in size (3.94 cm long x 0.78 cm at cranial pole and 0.84 cm at caudal pole), shape and overall architecture, echogenicity and echotexture. Visible surrounding vasculature appears normal.

Right adrenal gland is normal in size (3.3 cm long x 1.55 cm at cranial pole and 0.66 cm at caudal pole), shape and overall architecture, echogenicity and echotexture. Visible surrounding vasculature appears normal.

Spleen

Spleen is generally normal in size and shape with a smooth capsular contour. Parenchyma is diffusely nodular in appearance characterized by small discrete hypoechoic nodules. Splenic vasculature appears normal.

Liver

Liver is subjectively normal in size with normal smooth curvilinear peripheral contour. Parenchyma is appropriately hypoechoic to the spleen in echogenicity and appropriately mildly coarse and homogenous in echotexture. No focal lesions are observed. Visible vasculature and biliary tree appear normal without distension or congestion.



PATIENT

Gallbladder is non-distended in size. The wall is smooth without visible thickening. Luminal contents are primarily anechoic. There is no evidence of cystic or common bile duct dilation.

Helga Gibson

Gastrointestinal

SPECIES

The visible stomach wall is normal in thickness and layering. The lumen of the stomach is empty with no evidence of obstruction, foreign material or infiltrative disease. Pyloric outflow tract appears patent.

Canine

BREED

The visible small intestines are normal in wall thickness and layering. Small intestinal motility appears adequate (1-3 contractions per min). The lumen of the small intestine is empty with no evidence of obstruction, foreign material or infiltrative disease.

Dogue De Bordeaux

SEX

The visible colon is normal in wall thickness and layering. Contents are consistent with normal formed feces and gas.

Intact Female

Pancreas

AGE

The observed pancreas appears appropriately isoechoic to surrounding omental fat. Visible capsule is smooth and normal in contour. Visible pancreatic parenchyma is homogenous and unremarkable. There is no visible pancreatic duct dilation. There is no evidence of active peripancreatic inflammation.

5 Years

Free Abdomen

WEIGHT

There is no evidence of free fluid. The mesenteric lymph nodes are enlarged with swollen irregular capsular contour and loss of normal length to width ratio (rounded in shape). Nodes are hypoechoic with loss of normal parenchymal detail.

43.6 kg

Other

INTERPRETED BY

Both ovaries are visualized without evident ovarian pathology. Additionally, no uterine pathology is noted in these images.

Beth Johnson, DVM
DACVIM

ULTRASONOGRAPHIC FINDINGS

IMAGING PERFORMED BY

Primary Findings

Kelly Reschny

- Nephritis – This appearance can be consistent with chronic interstitial nephritis or glomerulonephritis. Toxic insult and/or infectious disease (pyelonephritis, Leptospirosis, etc.) cannot be ruled out. This finding should be interpreted in combination with suspicion for renal disease and/or supporting laboratory or urinalysis changes.
- Splenic micronodular hyperplasia – This nodular change is often associated with benign aging nodular hyperplasia. Infiltrative neoplasia, however, including both early hemangiosarcoma as well as round cell neoplasia cannot be ruled out.
- Aggressive mesenteric lymph nodes – most consistent with infiltrative round cell or metastatic neoplasia. A benign aggressive inflammatory response cannot be ruled out without tissue sampling +/- culture.

HOSPITAL NAME

Hamilton Region VEC

REFERRING VET

Dr. Grewal

INVOICE

21942

DATE

4/11/23

Secondary Findings

- Urinary bladder debris

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS



PATIENT

Helga Gibson

Given the appearance of this patients mesenteric lymph nodes and spleen, combined with the reported hypercalcemia, infiltrative neoplasia, such as lymphoma, is high on the list of differentials. The kidney disease may be secondary to hypercalcemia, or could be in addition to, and potentially even contributing to the hypercalcemia.

SPECIES

Canine

Further evaluation of the hypercalcemia is recommended, beginning with a malignancy panel to include ionized calcium, PTH and PTHrP.

BREED

Dogue De Bordeaux

Additionally, given the kidney disease, and the thrombocytopenia, testing for leptospirosis could be considered.

SEX

Intact Female

A thorough rectal and perianal exam is recommended, if not already evaluated, as is close palpation of the peripheral lymph nodes, which if enlarged, could potentially be more safely aspirated than the abdominal lymph nodes given this patients reported thrombocytopenia.

AGE

5 Years

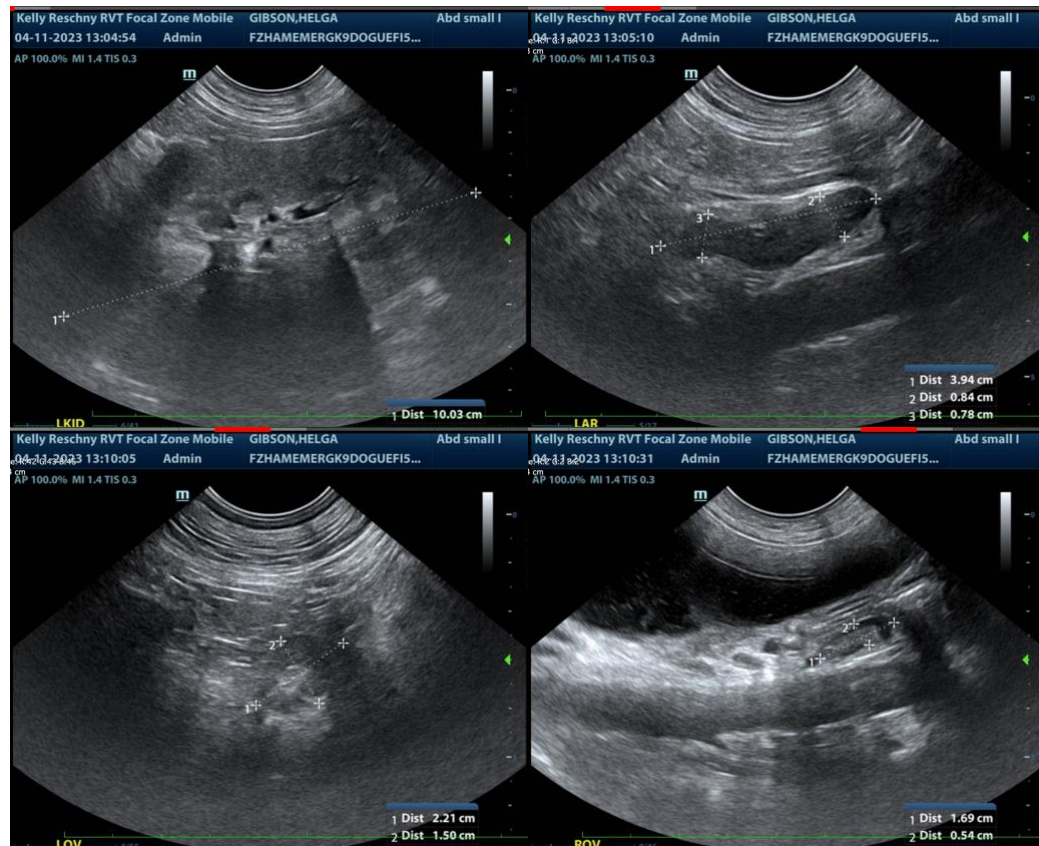
Ideally, if peripheral lymph nodes are not enlarged, the mesenteric lymph nodes and spleen would be fine needle aspirated, if patients platelet count is at a level that safely allows that. If that is not possible, a bone marrow cytology could be considered.

WEIGHT

43.6 kg

INTERPRETED BY

Beth Johnson, DVM
DACVIM



IMAGING PERFORMED BY

Kelly Reschny

HOSPITAL NAME

Hamilton Region VEC

REFERRING VET

Dr. Grewal

INVOICE

21942

DATE

4/11/23



PATIENT

Helga Gibson

SPECIES

Canine

BREED

Dogue De Bordeaux

SEX

Intact Female

AGE

5 Years

WEIGHT

43.6 kg

INTERPRETED BY

Beth Johnson, DVM
DACVIM

**IMAGING
PERFORMED BY**

Kelly Reschny

HOSPITAL NAME

Hamilton Region VEC

REFERRING VET

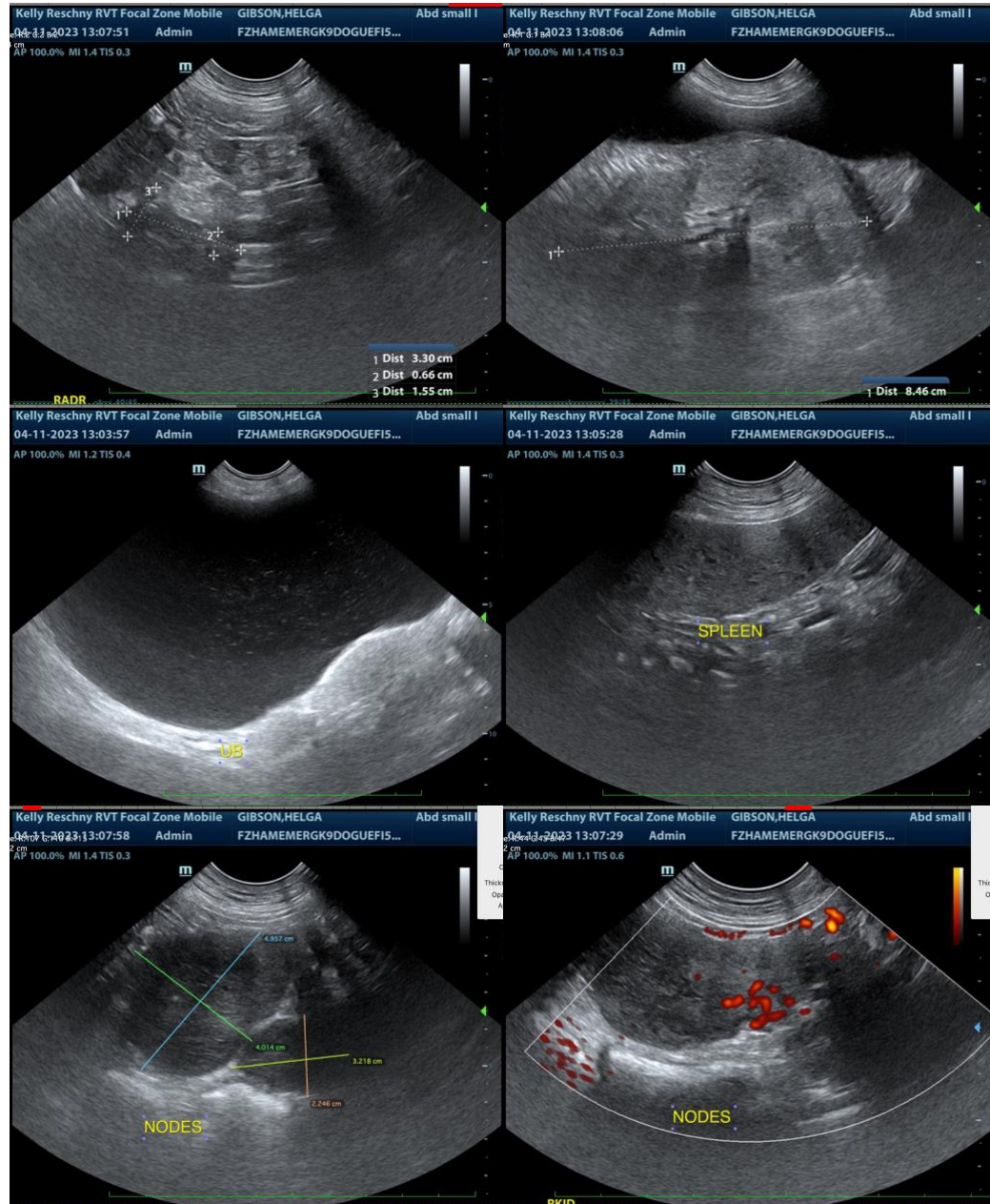
Dr. Grewal

INVOICE

21942

DATE

4/11/23

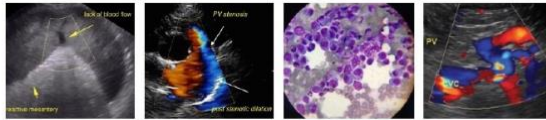


The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Beth Johnson, DVM DACVIM

Beth.Johnson@SonoPath.com



PATIENT

Helga Gibson

SPECIES

Canine

BREED

Dogue De Bordeaux

SEX

Intact Female

AGE

5 Years

WEIGHT

43.6 kg

INTERPRETED BY

Beth Johnson, DVM
DACVIM

**IMAGING
PERFORMED BY**

Kelly Reschny

HOSPITAL NAME

Hamilton Region VEC

REFERRING VET

Dr. Grewal

INVOICE

21942

DATE

4/11/23