

PATIENT	PRESENTING CLINICAL SIGNS
Lola VanFleet	Ongoing cystitis. Has recently restarted the S/O diet. Had 6 weeks of antibiotics without real response. Was started on Onsior and Convenia injection on 11/8/22 Seen again 12/6/22 for increased frequency of urination and straining. Rechecked bloodwork at that time and x-ray done but empty bladder and lots of stool in views. Was started on Onsior and 8 week course of Baytril.
SPECIES	
Canine	Abnormal PE/Chem/CBC/UA Results: ALT M1 elevation, PLT M1 elevation, PCT M1 elevation, Urine Sp Gravity 1.015(always tests low like this) pH 9, blood 250 ery/UL
BREED	ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN
Chihuahua	Urinary System
SEX	Urinary bladder is adequately distended with primarily anechoic contents and occasional echogenic non-shadowing debris. Apical urinary bladder wall is diffusely thick (0.67 cm). Mucosa is hyperechoic and irregular with multiple pedunculated masses extending into the lumen of the bladder. No cystoliths are observed. The trigone and visible pelvic urethra are normal thickness with a smooth mucosal surface.
Spayed Female	
AGE	Kidneys are overall normal in size and shape with smooth peripheral margination. A normal 1:3 cortex to medulla ratio is maintained. The medulla and cortices are uniform in texture with some mild increased cortical echogenicity and mild loss of corticomedullary distinction, expected in this age patient. There is no evidence of pyelectasia, mineral or infarcts observed. The right kidney measured 4.49 cm. The left kidney measures 4.49 cm.
10 Years	
WEIGHT	Adrenal Glands
6.9 kg	The right adrenal gland is normal in size (1.49 cm long x 0.98 cm at the cranial pole and 0.49 cm), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.
INTERPRETED BY	The left adrenal gland is normal in size (1.73 cm long x 0.49 cm at the cranial pole and 0.41 cm at the caudal pole), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.
Beth Johnson, DVM DACVIM	
IMAGING PERFORMED BY	Spleen
Crystal Hill	Spleen is subjectively normal in size with a normal smooth capsular contour. Parenchyma is appropriately finely textured and homogenous with normal echogenicity relative to surrounding tissue (hyperechoic to liver). Multifocal well-demarcated hyperechoic homogenous nodules are noted. Splenic vasculature appears normal.
HOSPITAL NAME	Liver
Grand River VH	The 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.
REFERRING VET	
Dr. Day	
INVOICE	The 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.
43921	
DATE	
1/4/23	



PATIENT *Gastrointestinal*

Lola VanFleet The visible stomach wall is normal in thickness and layering. The lumen of the stomach is mildly distended with echogenic non-shadowing luminal contents and gas consistent with normal ingesta. There is no evidence of obstruction, foreign material or infiltrative disease. Pyloric outflow tract appears patent.

SPECIES

Canine 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 mildly distended with echogenic non-shadowing luminal contents and gas consistent with normal ingesta. There is no evidence of obstruction, foreign material or infiltrative disease.

BREED

Chihuahua The visible colon is normal in wall thickness (< 0.2 cm) and layering. Contents are consistent with normal formed feces and gas.

SEX

Pancreas

Spayed Female The pancreatic parenchyma is appropriately isoechoic to surrounding tissue. Visible capsule is smooth and normal in contour. There is no visible pancreatic duct dilation. There is no evidence of active peripancreatic inflammation.

AGE

10 Years *Free Abdomen*

There is no evidence of free peritoneal effusion noted in these images.

WEIGHT

There is no apparent lymphadenopathy noted in these images.

6.9 kg

PRIMARY FINDINGS

- **Polypoid Cystitis** – Urinary bladder wall changes are most consistent with polypoid cystitis. Infiltrative neoplasia cannot be ruled out but is considered less likely given the appearance of the polyps.

INTERPRETED BY

Beth Johnson, DVM
DACVIM

ULTRASONOGRAPHIC FINDINGS

- Age related kidney changes
- **Hyperechoic splenic nodules** – most consistent with benign myelolipomas. Other differentials such as fibrosis or calcification caused by old hematomas or infarcts, chronic inflammation, granulomatous disease or metastatic disease cannot be ruled out, but are considered less likely.

IMAGING PERFORMED BY

Crystal Hill

HOSPITAL NAME

Grand River VH

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

If this patient has not had a urine culture, a urine culture is recommended 7-10 days after finishing antibiotics to rule out a resistant infection not susceptible to the antibiotics that have empirically been used.

REFERRING VET

Dr. Day

Additionally, while neoplasia is less likely based on lesion appearance, submission of urine to look for BRAF gene mutation, which is associated with urinary bladder cancer, could also be considered.

INVOICE

43921

Ultimately, in the face of negative culture and negative BRAF, if clinical signs persist, cystoscopy could be considered for further visual evaluation as well as biopsies of the apical polypoid lesions.

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In the meantime, in addition to diet change, etc. already reportedly in place, empirical deworming with a 5-day course is recommended, as parasitic disease can affect the urinary tract.



PATIENT

Lola VanFleet

SPECIES

Canine

BREED

Chihuahua

SEX

Spayed Female

AGE

10 Years

WEIGHT

6.9 kg

INTERPRETED BY

Beth Johnson, DVM
DACVIM

IMAGING PERFORMED BY

Crystal Hill

HOSPITAL NAME

Grand River VH

REFERRING VET

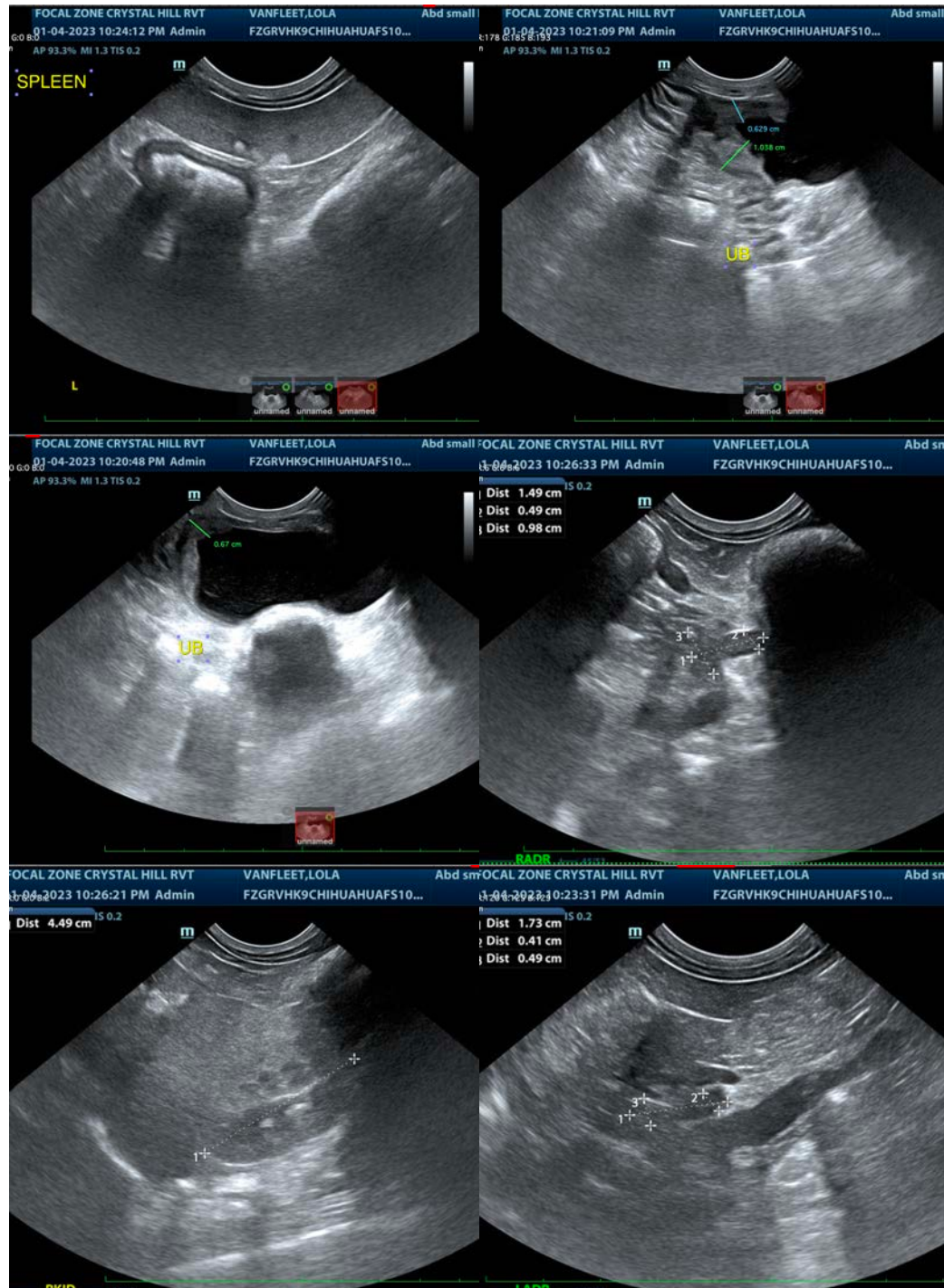
Dr. Day

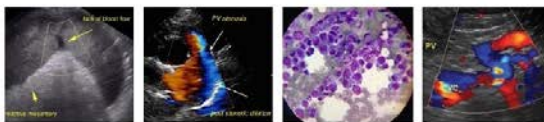
INVOICE

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PATIENT

Lola VanFleet

SPECIES

Canine

BREED

Chihuahua

SEX

Spayed Female

AGE

10 Years

WEIGHT

6.9 kg



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.

Beth Johnson, DVM, DACVIM
Beth.Johnson@sonopath.com

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DACVIM

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