



PATIENT	PRESENTING CLINICAL SIGNS
Rascal Mackintosh	New PU/PD, bloodwork + urinalysis overall WNL Abnormal PE/Chem/CBC/UA Results: ALT 119
SPECIES	ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN
Canine	Urinary System
BREED	Urinary bladder is adequately distended with primarily anechoic contents and occasional echogenic non-shadowing debris. Apical urinary bladder wall is diffusely thick (0.38 cm). Mucosa is hyperechoic and irregular. No masses observed. A 0.23 cm cystolith is present in the urinary bladder. The trigone and visible pelvic urethra are normal thickness with a smooth mucosal surface.
Norwich	
SEX	Prostate is normal in size, echotexture and echogenicity for a neutered male.
Neutered Male	The right kidney is normal in size (4.89 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia or infarcts observed. Non-obstructive areas of mineralization/nephroliths are noted.
AGE	
15 Years	The left kidney is normal in size (4.59 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia or infarcts observed. Non-obstructive areas of mineralization/nephroliths are noted.
WEIGHT	
20.5 Pounds	Adrenal Glands
INTERPRETED BY	The right adrenal gland is normal in size (2.05 cm long x 0.53 cm at the cranial pole and 0.46 cm at the caudal pole), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.
Beth Johnson, DVM DACVIM	The left adrenal gland is normal in size (1.88 cm long x 0.47 cm at the cranial pole and 0.54 cm at the caudal pole), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.
IMAGING PERFORMED BY	Spleen
Jessica Miller	The 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). No focal nodules or masses are observed. Splenic vasculature appears normal.
HOSPITAL NAME	Liver
Tranquility VC	The liver is subjectively small 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. House	
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.
42458	Gastrointestinal
DATE	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.
11/1/22	



PATIENT	There is no evidence of obstruction, foreign material or infiltrative disease. Pyloric outflow tract appears patent.
Rascal Mackintosh	
SPECIES	The visible small intestines are normal in wall thickness and layering (canine duodenum < 0.5 cm and feline duodenum < 0.4 cm; other < 0.3 cm). 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.
Canine	
BREED	The visible colon is normal in wall thickness (< 0.2 cm) and layering. Contents are consistent with normal formed feces and gas.
Norwich	
SEX	<i>Pancreas</i> 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.
Neutered Male	
AGE	<i>Free Abdomen</i> There is no evidence of free peritoneal effusion noted in these images. There is no apparent lymphadenopathy noted in these images.
15 Years	
WEIGHT	PRIMARY FINDINGS
20.5 Pounds	<ul style="list-style-type: none"> • Subjectively mild microhepatica – Rule out normal patient variant versus chronic hepatopathy versus less likely at this age a vascular anomaly.
INTERPRETED BY	SECONDARY FINDINGS
Beth Johnson, DVM DACVIM	<ul style="list-style-type: none"> • Chronic Cystitis with a small cystolith noted - Urinary bladder wall changes are most consistent with chronic cystitis. Infiltrative neoplasia cannot be ruled out but is considered less likely given the location and diffuse nature of the changes. • Non-obstructive nephrolithiasis bilaterally in the kidneys
IMAGING PERFORMED BY	<u>INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS</u>
Jessica Miller	Given this patient's mildly increased ALT and subjectively mildly small liver, recommendations for the next steps to work up the new polyuria/polydipsia include bile acids as well as testing for Leptospirosis.
HOSPITAL NAME	Given the urinary bladder wall changes and the small cystoliths noted, a urine culture could be considered to rule out an occult urinary tract infection.
Tranquility VC	
REFERRING VET	Pending results, a course of hepatic nutraceuticals +/- empirical antibiotics could be tried prior to a more advanced work up for things like hyperthyroidism, hyperadrenocorticism, neurologic disease, etc. that may be contributing to PU/PD.
Dr. House	Given this patient's age, a behavioral component/cognitive decline could also be considered.
INVOICE	
42458	
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PATIENT

Rascal Mackintosh

SPECIES

Canine

BREED

Norwich

SEX

Neutered Male

AGE

15 Years

WEIGHT

20.5 Pounds

INTERPRETED BY

Beth Johnson, DVM
DACVIM

IMAGING PERFORMED BY

Jessica Miller

HOSPITAL NAME

Tranquility VC

REFERRING VET

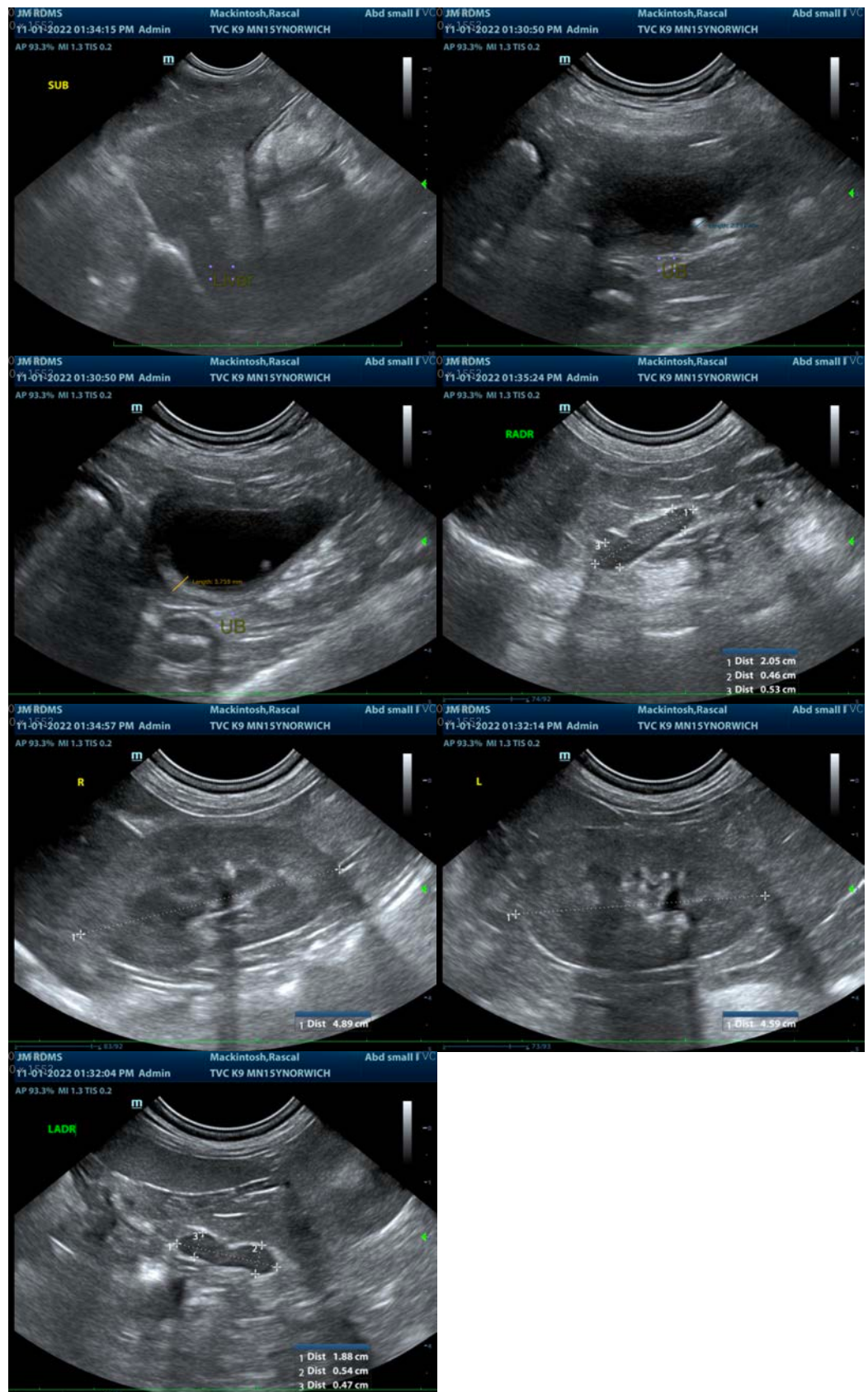
Dr. House

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PATIENT

Rascal Mackintosh

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

Norwich

Beth Johnson, DVM, DACVIM

Beth.Johnson@sonopath.com

SEX

Neutered Male

AGE

15 Years

WEIGHT

20.5 Pounds

INTERPRETED BY

Beth Johnson, DVM
DACVIM

**IMAGING
PERFORMED BY**

Jessica Miller

HOSPITAL NAME

Tranquility VC

REFERRING VET

Dr. House

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