



PATIENT	PRESENTING CLINICAL SIGNS
Pepper Schaefers	Progressive PU/PD Abnormal PE/Chem/CBC/UA Results: BUN 18 Creat 0.6 Liver values WNL USPG 1.006, 2 (+) protein
SPECIES	
Canine	ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN
BREED	Urinary System
Dachshund	The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2.0 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with no uroliths or sediment. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes was noted.
SEX	No evidence of pathology was noted in the area of the uterus or bilateral ovaries.
Female	The area of the aortic trifurcation was free of pathology.
AGE	Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio was maintained. The medulla and cortices were uniform in texture with some increased echogenicity and mild to moderate loss of corticomedullary symmetry and definition expected for the age of the patient. Areas of medullary mineralization along with mild right kidney pyelectasia were present. The left kidney measured 3.7 cm in length. The right kidney measured 5.0 cm in length.
15 years	
WEIGHT	
10 lbs.	
INTERPRETED BY	Adrenal Glands
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	The left adrenal gland exhibited subtle caudal pole enlargement, yet maintained symmetrical capsule contour and mild nonhomogeneous parenchyma. The left adrenal gland measured 0.87 cm width at the caudal pole and 0.36 cm width at the cranial pole.
IMAGING PERFORMED BY	The right adrenal gland was normal in size. Mild parenchyma heterogeneity and mild capsule asymmetry was present without suspicion for overt neoplasia. The right adrenal gland measured 0.70 cm width in the cranial pole and 0.42 cm width in the caudal pole.
Jenna Walsh, CVT	
HOSPITAL NAME	Spleen
Bush AH	The spleen exhibited a finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. The capsule was smooth and regular without apparent expansion. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis. Acute to chronic inflammatory, neoplastic, or benign parenchyma changes were not noted.
REFERRING VET	
Dr. Beyerinck	
INVOICE	Liver/ Gallbladder
12287	The liver presented increased in size. The parenchyma of the liver was subjectively increased in echogenicity compared to the spleen and renal cortices. The echotexture of the liver parenchyma was uniform with a mild coarse echotexture. The capsule of the liver was symmetrical in margination. The hepatic and portal vasculature were normal in appearance without signs of congestion. The
DATE	
9/23/21	



PATIENT	gallbladder was non-distended in size moderate, nondependent yet nonorganized, echogenic gallbladder debris. Focal hypoechoic to anechoic areas noted between the luminal debris and inner luminal wall, suggestive of small pockets of mucus, were present. No evidence of peripheral inflammation was noted. The cystic and common bile ducts were normal.
Pepper Schaefers	
SPECIES	<i>Gastrointestinal</i>
Canine	The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach was empty with no signs of ileus, obstruction, or foreign material.
BREED	The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. The lumen of the small intestine was empty with no signs of ileus, obstruction, or foreign material.
Dachshund	
SEX	Normal visible colon wall layers were present with apparent formed feces in lumen.
Female	
AGE	<i>Pancreas</i>
15 years	The parenchyma of the pancreas base and right pancreatic limb was hyperechoic to adjacent omental fat with diffuse parenchyma remodeling. The capsule of the pancreas was mildly asymmetrical in contour without evidence of peripancreatic inflammation. These changes may suggest chronic inflammation, fibrosis, or saponification if previous history of pancreatitis. No overt signs of pancreatic neoplasia.
WEIGHT	
10 lbs.	
INTERPRETED BY	<i>Free Abdomen</i>
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	No overt lymphadenopathy or peritoneal effusion was present.
IMAGING PERFORMED BY	ULTRASONOGRAPHIC FINDINGS
Jenna Walsh, CVT	<i>Primary Findings</i>
HOSPITAL NAME	<ul style="list-style-type: none"> • Chronic renal changes with medullary mineralization and minor right kidney pyelectasia • Subjective mildly prominent adrenal glands specifically caudal left adrenal gland • Hepatomegaly with uniform mild echogenic parenchyma • Moderate gallbladder debris • Chronic pancreatitis, possible pancreatic fibrosis
Bush AH	
REFERRING VET	<u>INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS</u>
Dr. Beyerinck	The pyelectasia in the right kidney may be owing to chronic renal changes, potential pelvic scarring possibly owing to previous calculi passage, IV fluid therapy (if applicable). Urine C/S and protein:creatinine ratio on sterile urine sample is recommended.
INVOICE	
12287	
DATE	Given the lack of reported hepatic enzyme elevations, the liver was nonspecific with considerations including steroid or vacuolar hepatopathy, chronic hepatitis / cholangiohepatitis, lipidosis, with hepatic neoplasia considered an unlikely differential diagnosis. Further assessment, given the PU/PD
9/23/21	



PATIENT

may include screening UCCR and/or LDDST if suspicion of hyperadrenocorticism, and Leptospirosis titer/ PCR.

Pepper Schaefers

SPECIES

Potential for early gallbladder mucocele formation is possible. Future monitoring for evidence of cranial abdominal or subxiphoid discomfort on palpation and increasing cholestasis is recommended.

Canine

BREED

Dachshund

SEX

Female

AGE

15 years

WEIGHT

10 lbs.

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Jenna Walsh, CVT

HOSPITAL NAME

Bush AH

REFERRING VET

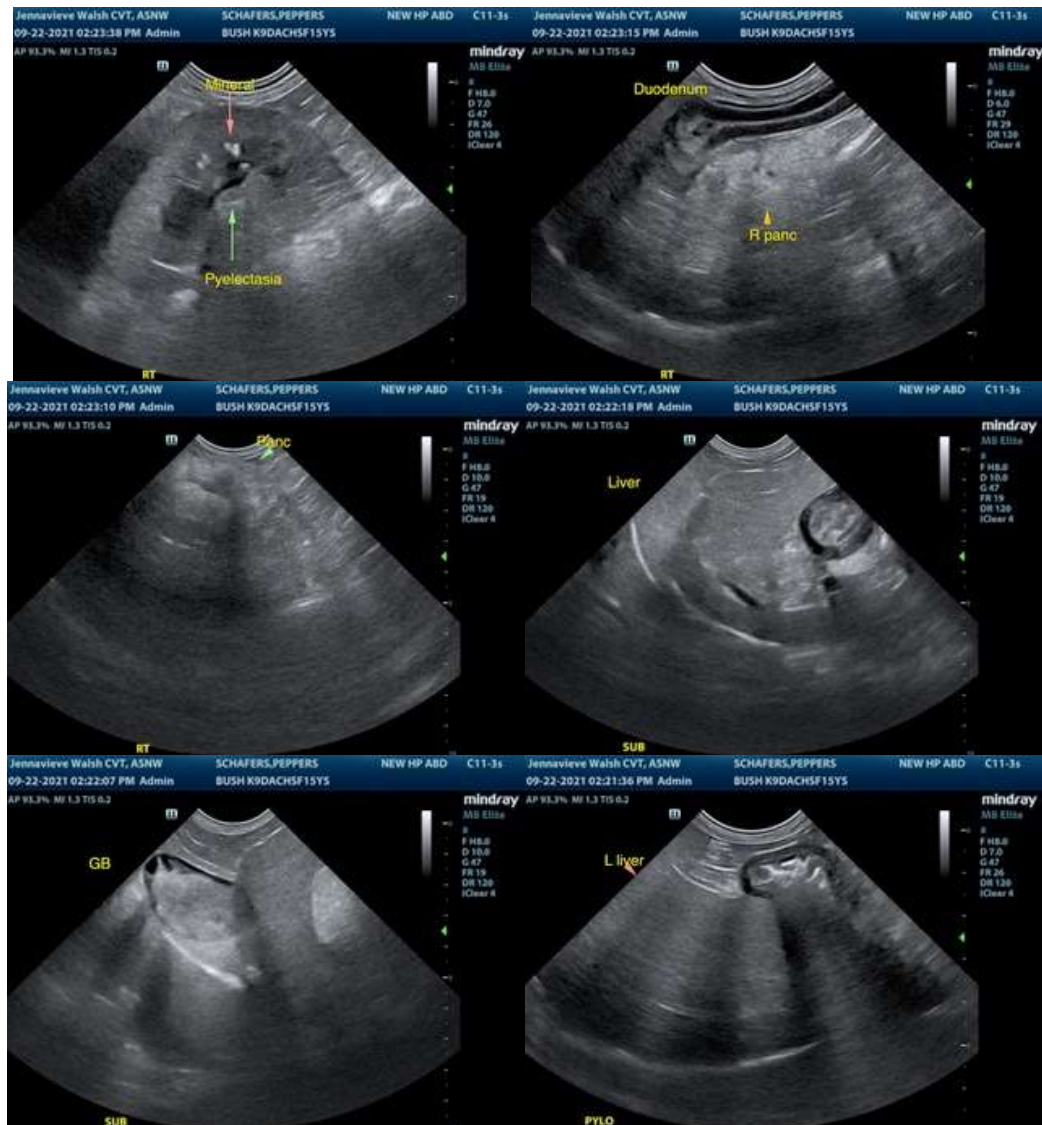
Dr. Beyerinck

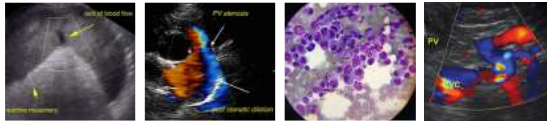
INVOICE

12287

DATE

9/23/21





PATIENT

Pepper Schaefers

SPECIES

Canine

BREED

Dachshund

SEX

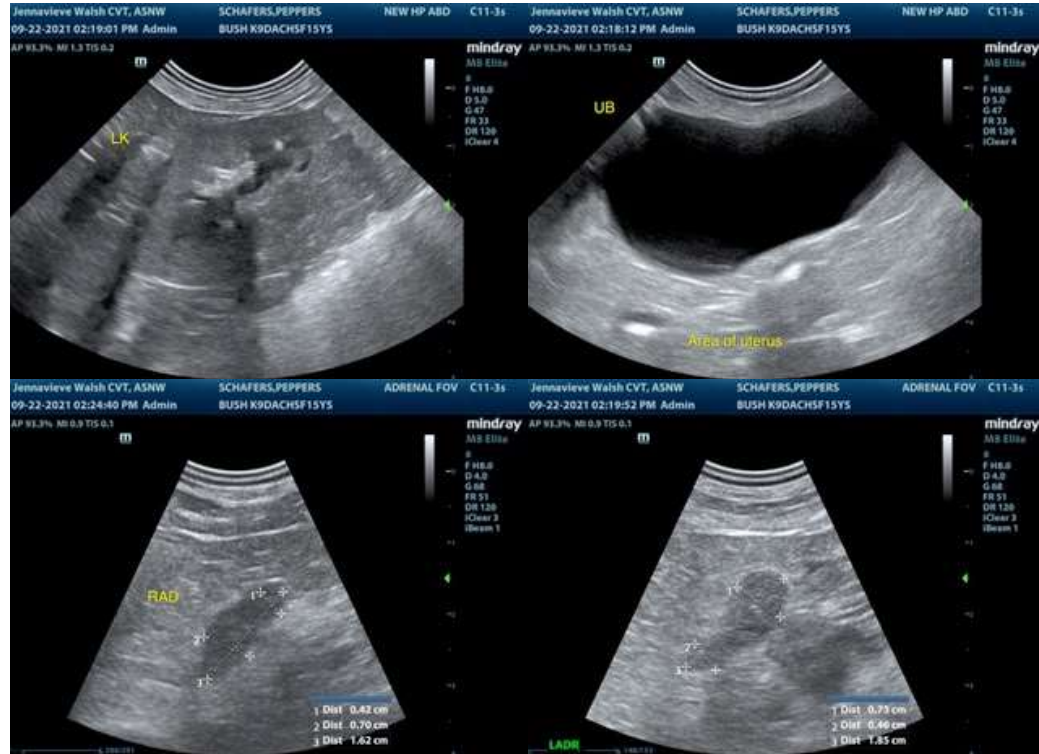
Female

AGE

15 years

WEIGHT

10 lbs.



INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Jenna Walsh, CVT

HOSPITAL NAME

Bush AH

REFERRING VET

Dr. Beyerinck

INVOICE

12287

DATE

9/23/21

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.

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)
info@SonoPath.com