



PATIENT

Maxine Holthofer

SPECIES

Canine

BREED

Chihuahua Mix

SEX

Spayed female

AGE

13 years

WEIGHT

12.9 lbs

INTERPRETED BY

Eric Lindquist, DMV,
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Sara Hansen

HOSPITAL NAME

Town and Country AC

REFERRING VET

Dr. Castor

DATE

7/21/22

Invoice

31869

PRESENTING CLINICAL SIGNS

History: 6/15/2022 - Blood in Urine and urinating small amount + more frequently, Lethargic
7/8/2022 - BW to Antech -Adult Chem + CBC - All values within normal range 7/15/2022 - Urinalysis to Antech - (Free catch) All values within normal range Owner concerned about urgency and frequency to go outside to urinate. Behavioral?
Abnormal PE/Chem/CBC/UA Results: 6/15/2022 - Urinalysis to Antech - (Free catch) pH: 8.5 High, Protein: 3+, Occult Blood: 3+, RBC: 4-10, Struvite: 0-1, Calcium Oxalate: 21-50 7/8/2022 - BW to Antech -Adult Chem + CBC - All values within normal range 7/15/2022 - Urinalysis to Antech - (Free catch) All values within normal range

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The **urinary bladder** and trigone presented normal thicknesses and normal tone. The urethra was dilated with a prostatic urethral calculus that measured approximately 0.3 cm and was lodged in the prostatic urethra. The ureters were not visible which is normal. No uroliths or sediment were visualized and anechoic urine was present. No evidence of inflammatory or neoplastic changes was noted. Ureteral papillae were normal.

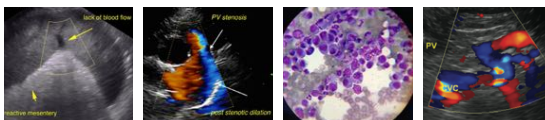
The **kidneys** revealed normal size and structure, corticomedullary definition and ratio for this age. The cortices presented largely uniform texture with normal echogenic relationship to liver and spleen. Medullary structure differed distinctly from the cortex and no evidence of pelvic dilation was present. The capsules were acceptably uniform without significant irregularities. The left kidney measured 4.10 cm with slight pinpoint mineralization. The right kidney measured 4.07 cm.

Adrenal Glands

Both **adrenal glands** were visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. The right adrenal gland measured 1.12 cm at the cranial pole, 0.64 cm at the caudal pole and 2.55 cm in length. The left adrenal gland measured 2.28 x 0.61 cm at the caudal pole and 0.56 cm at the cranial pole.

Spleen

The **spleen** presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The capsule was smooth without noticeable expansion or deviation from within the spleen or adjacent pathology. The splenic vasculature demonstrated normal volume without signs of congestion or thrombosis. No sonographic evidence of acute or chronic inflammatory, neoplastic, or infarctual changes was noted.



PATIENT

Liver

Maxine Holthofer

SPECIES

Canine

BREED

Chihuahua Mix

SEX

Spayed female

AGE

13 years

WEIGHT

12.9 lbs

INTERPRETED BY

Eric Lindquist, DMV,
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Sara Hansen

HOSPITAL NAME

Town and Country AC

REFERRING VET

Dr. Castor

DATE

7/21/22

Invoice

31869

The **liver** images submitted revealed subjectively normal liver size, contour, and structure. Parenchymal echogenicity was naturally coarse and hypoechoic to the spleen. Vascular and biliary tracts were of normal volume with no evidence of congestion. The gallbladder presented acceptably thin walls with primarily anechoic content. The cystic and common bile ducts were normal. No pathological hepatic lymphadenopathy was evident. No overt structural evidence of inflammatory, infiltrative or regenerative pathology was evident.

Gastrointestinal

A minor amount of non-shadowing, non-obstructive ingesta was noted in the stomach. Transit of chyme into the small intestine was normal. Curvilinear patterns were maintained throughout the GI tract. No evidence of pathology. Small and large intestine demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.

Pancreas

The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Pancreatic duct and capsular contour were acceptably normal and parenchyma respected normal curvilinear patterns. No overt evidence of active inflammatory or neoplastic disease was noted.

ULTRASONOGRAPHIC FINDINGS

Prostatic urethral calculus.

Partial urethral obstruction.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Surgical intervention with retrograde flushing and catheterization possibly guided by ultrasound is recommended to dislodge the pelvic urethral calculus and retropulse it into the urinary bladder followed by cystotomy. In the visible plane to the prostatic urethra and slightly beyond only a single calculus appeared present. However, I cannot rule out further calculi further distally in the urethra.



PATIENT

Maxine Holthofer

SPECIES

Canine

BREED

Chihuahua Mix

SEX

Spayed female

AGE

13 years

WEIGHT

12.9 lbs

INTERPRETED BY

Eric Lindquist, DMV,
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Sara Hansen

HOSPITAL NAME

Town and Country AC

REFERRING VET

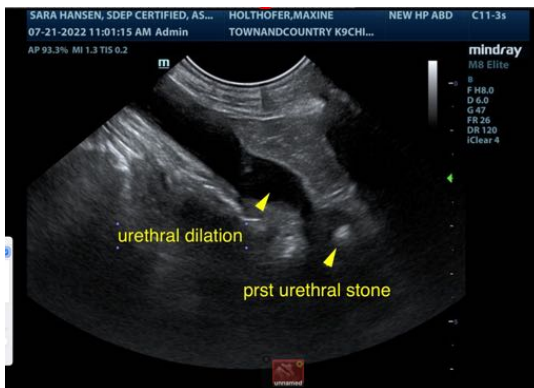
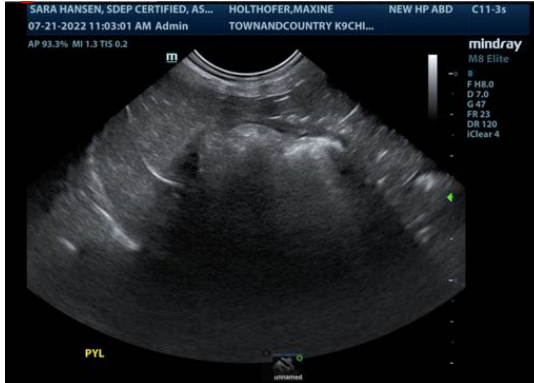
Dr. Castor

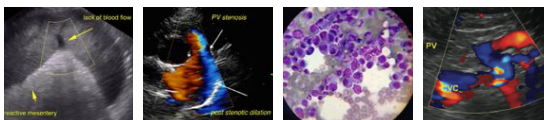
DATE

7/21/22

Invoice

31869





PATIENT

Maxine Holthofer

SPECIES

Canine

BREED

Chihuahua Mix

SEX

Spayed female

AGE

13 years

WEIGHT

12.9 lbs

INTERPRETED BY

Eric Lindquist, DMV,
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Sara Hansen

HOSPITAL NAME

Town and Country AC

REFERRING VET

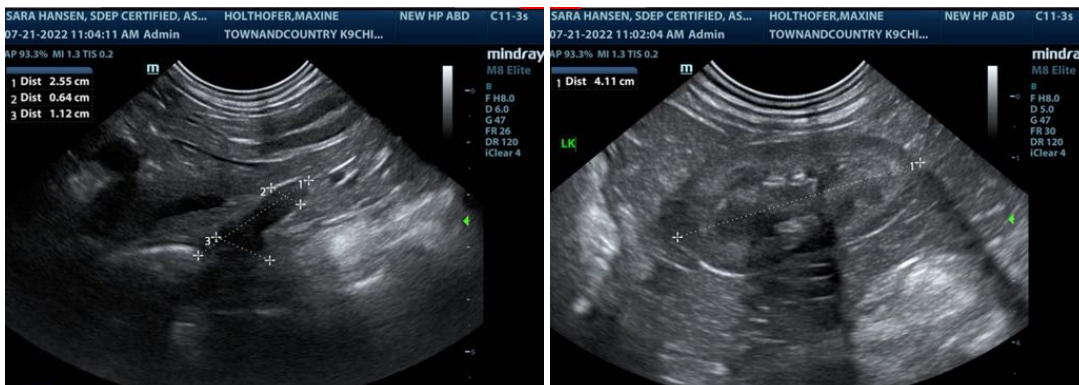
Dr. Castor

DATE

7/21/22

Invoice

31869



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.

Eric Lindquist, DMV, DABVP, Cert. IVUSS

CEO of SonoPath.com

Eric.Lindquist@SonoPath.com