



**PATIENT**

Pappy Tuthill

**PRESENTING CLINICAL SIGNS**

CRF

**SPECIES**

Canine

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

**BREED**

Mix

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. 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.

**SEX**

Neutered male

The residual prostate was uniform and measured 1.5 cm. The pre and post prostatic urethra was unremarkable.

**AGE**

17 years

The **kidneys** revealed significant disruption of architecture with multi-focal, cystic changes and irregular contour. The right kidney measured 8.54 cm. The left kidney revealed a chronic interstitial nephrosis pattern. The left kidney measured 6.37 cm with trace pyelectasia.

**Adrenal Glands**

**WEIGHT**

23 lbs

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 left adrenal gland measured 2.1 x 0.77 cm at the caudal pole and 0.6 cm at the cranial pole.

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**Spleen**

**IMAGING PERFORMED BY**

Denise Bruno, LVT,  
RDMS

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.

**HOSPITAL NAME**

Mobile Vet Unit

**Liver**

**REFERRING VET**

Dr. Nachamie

The **liver** was diffusely hyperechoic to the falciform fat with multi-focal, non-disruptive, hypoechoic nodular changes. Gallbladder polyp was noted, yet is not pathological.

**Gastrointestinal**

**INVOICE**

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Examination of the **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. 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.

**DATE**

5/23/22



## PATIENT

**Pancreas**

Pappy Tuthill

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.

## SPECIES

Canine

## ULTRASONOGRAPHIC FINDINGS

## BREED

Mix

Moderate degenerative left renal changes.

Undefined cystic, disruptive right renal changes.

## SEX

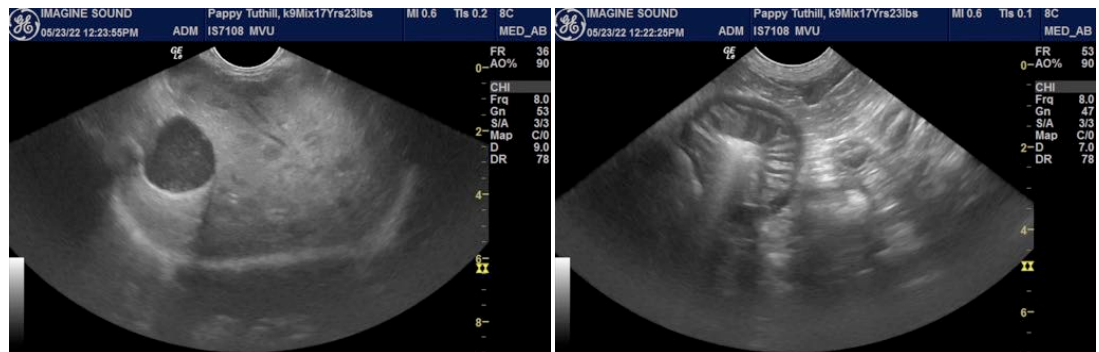
Neutered male

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

There is concern for right renal carcinoma. Stabilization of the azotemia with aggressive fluid therapy is indicated with eventual right nephrectomy. However, the prognosis is guarded and would depend upon stabilization for eventual surgery. Ultrasound-guided drainage of the cyst with culture and FNA of the parenchymal portions of the right kidney could be considered for further definition. Acute on chronic renal failure is suspected.

## WEIGHT

23 lbs



## INTERPRETED BY

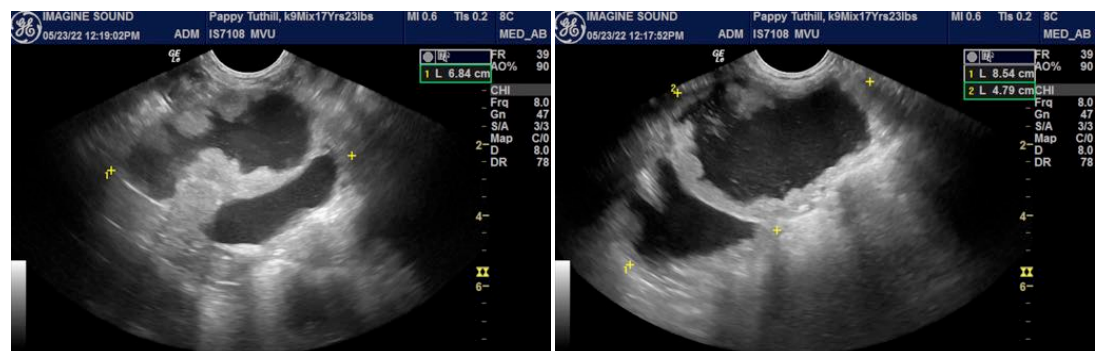
Eric Lindquist, DMV  
DABVP, Cert. IVUSS

## IMAGING PERFORMED BY

Denise Bruno, LVT,  
RDMS

## HOSPITAL NAME

Movile Vet Unit



## REFERRING VET

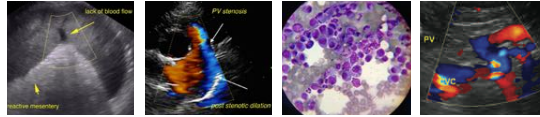
Dr. Nachamie

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## DATE

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**PATIENT**

Pappy Tuthill

**SPECIES**

Canine

**BREED**

Mix

**SEX**

Neutered male

**AGE**

17 years

**WEIGHT**

23 lbs

**INTERPRETED BY**

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**IMAGING PERFORMED BY**

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**HOSPITAL NAME**

Mobile Vet Unit

**REFERRING VET**

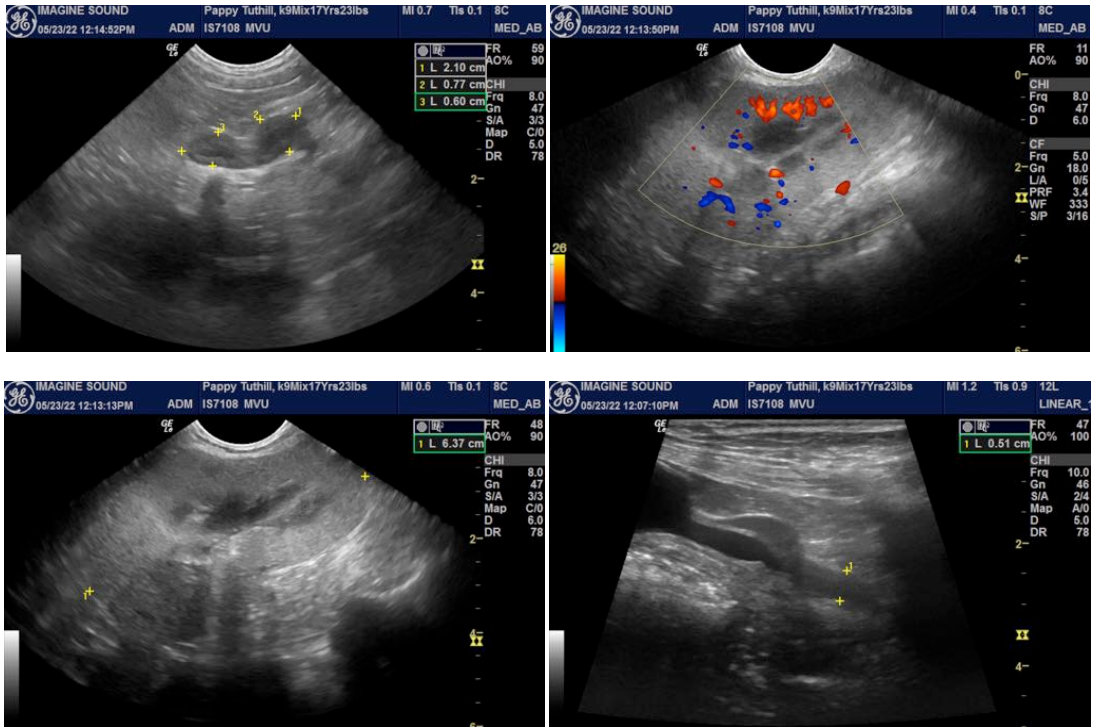
Dr. Nachamie

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**DATE**

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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