



## PATIENT

Nickie Chapman

## PRESENTING CLINICAL SIGNS

History: Nickie" Kelly Chapman Male, neutered at age 5 DOB=9-26-2006 Shih Tzu 7.26kg History: Episodes of urinary incontinence since August 2021. Urine analysis showed probable UTI. Amoclav helped with symptoms but never went completely away. Currently taking Proin 25mg tablets, one half tablet every 12 hours. Slight difference in frequency of urination accidents. Finances are a concern

## SPECIES

Canine

## BREED

Shih Tzu

## SEX

Neutered Male

## AGE

16 Years

## WEIGHT

7.26 kg

## ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

### Urinary System

The urinary bladder was normal in size and tone. A solitary calculus in dependent lumen, exhibiting mild asymmetrical margination, measuring 1.2 cm in diameter. The ventral apical and dorsal urinary bladder walls exhibited moderate thickening with mild asymmetrical luminal surface and mild nonhomogeneous mural echogenicity, measuring 1.0 cm in width. The area of the trigone and cystourethral junction were sonographically normal. The residual prostate was mildly prominent, measuring 1.0 cm in diameter without evidence of residual prostate mineralization. Urethra was normal to a depth of 3.0 cm.

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 moderate loss of corticomedullary symmetry and definition expected for the age of the patient. Variably sized cortical cysts present. An example of a cortical cysts measured 1.6 cm in diameter. Areas of pinpoint to focal dystrophic medullary mineral and mild pyelectasia present in both kidneys. The left kidney measured 3.9 cm in length. The right kidney measured 4.6 cm in length.

## INTERPRETED BY

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

### Adrenal Glands

The bilateral adrenal glands were normal in size. Mild parenchyma heterogeneity and mild capsule asymmetry was present without suspicion for overt neoplasia. The left adrenal gland measured 1.2 cm in length x 0.54 cm width in the caudal pole. The right adrenal gland measured 1.8 cm in length x 0.48 cm width in the caudal pole.

## IMAGING PERFORMED BY

Loetitia Saint-Jacques, RVT  
LVT

### Spleen

The spleen exhibited overall normal size and generalized parenchymal heterogeneity. Mid splenic mildly expansive hypoechoic to non-homogeneous nodule was present, measuring 1.6 cm in diameter.

## HOSPITAL NAME

Roundhill AH

### Liver

The liver was subjectively normal in size, structure, and contour. The liver parenchyma was mildly nonuniform and hypoechoic to the spleen with a moderate coarse echotexture and subjective mild to benign parenchymal remodeling. The hepatic and portal vasculature were normal in appearance without signs of congestion.

## REFERRING VET

Dr. Carl Kelly

## INVOICE

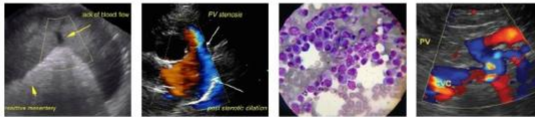
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### Gastrointestinal

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.

## DATE

2/7/22



**PATIENT**

Nickie Chapman 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.

**SPECIES**

Normal visible colon wall layers were present with apparent formed feces in lumen.

Canine

***Pancreas***

**BREED**

The parenchyma of the left limb, body and right limb of the pancreas presented isoechoic to the adjacent omental fat. A normal curvilinear capsule contour of the pancreas was present. The visible pancreatic duct was normal. No signs of active inflammation or neoplastic disease was evident.

Shih Tzu

***Free Abdomen***

**SEX**

No overt lymphadenopathy or peritoneal effusion was present.

Neutered Male

**ULTRASONOGRAPHIC FINDINGS**

**AGE**

16 Years

- Cystic calculus with moderate chronic apical cystitis pattern
- Bilateral moderate chronic renal changes exhibiting pinpoint dystrophic medullary mineral and variably sized cortical cysts
- Nonspecific, mildly expansive splenic nodule
- Minor hepatic parenchymal remodeling

**WEIGHT**

7.26 kg

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Urine culture and sensitivity on sterile urine sample is recommended.

**INTERPRETED BY**

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

Potential etiologies for the splenic nodule may include benign processes such as nodular hyperplasia, extramedullary hematopoiesis, hematoma, infection, infarction, or neoplasia. Ultrasound guided FNA of the nodule using 25-gauge needle and assuming normal coagulation parameters may be considered. Otherwise, sonographic monitoring of the splenic nodule for any changes in size or appearance with initial recheck in 3-4 weeks would be a more conservative approach.

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Loetitia Saint-Jacques, RVT  
LVT

Pending splenic cytology, cystotomy with urinary bladder biopsy, tissue culture and sensitivity and splenectomy could be considered. Medical therapy for UTI, if confirmed positive culture and sensitivity cystitis with sonographic monitoring of the urinary bladder and splenic nodule for evidence of progression would be a more conservative approach.

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**PATIENT**

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**SPECIES**

Canine

**BREED**

Shih Tzu

**SEX**

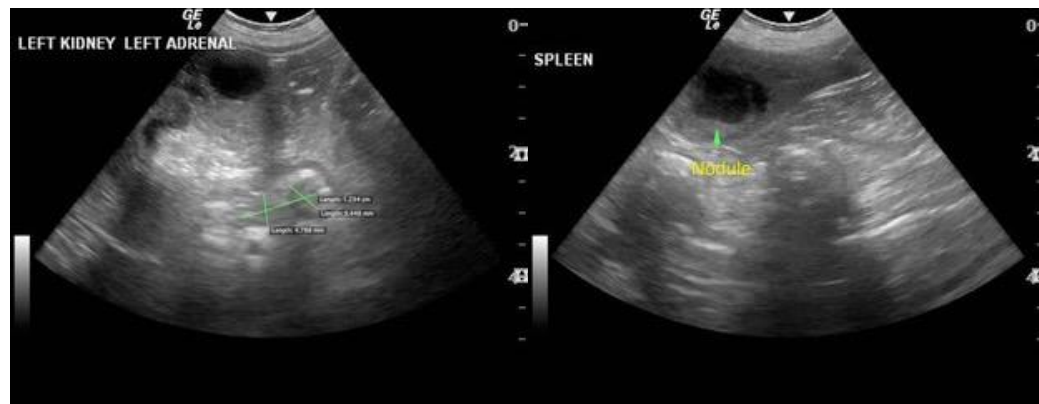
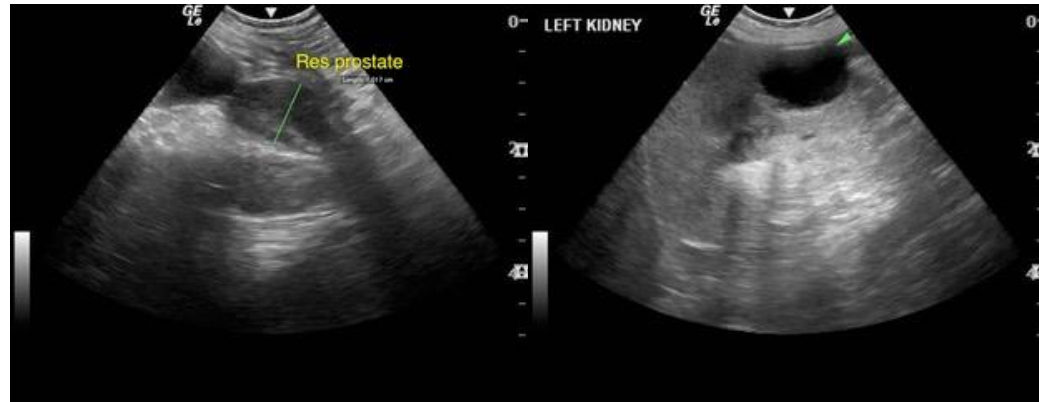
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**AGE**

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**WEIGHT**

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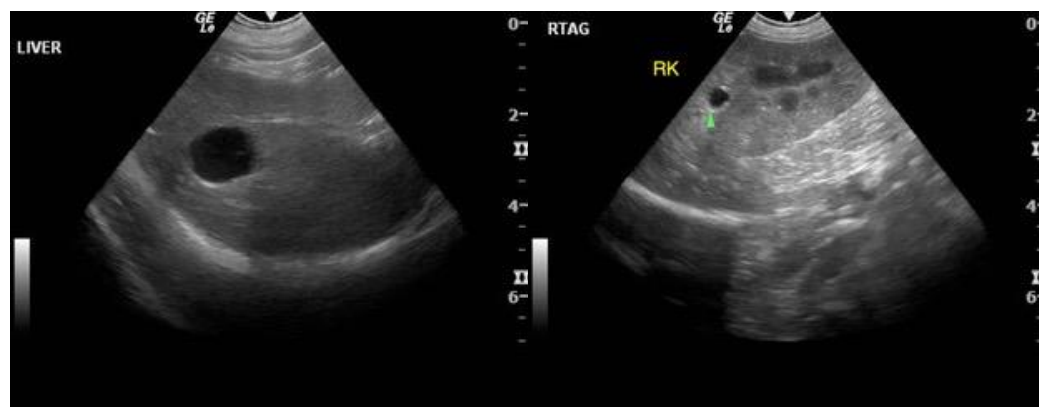


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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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.

**DATE**

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R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)



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Nickie Chapman info@SonoPath.com

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**BREED**

Shih Tzu

**SEX**

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