



## PATIENT PRESENTING CLINICAL SIGNS

Gizmo Kirby History: Screening ultrasound; occasional urinary accidents and acts hungry per O.  
Abnormal PE/Chem/CBC/UA Results: Na/K ratio: 26 K: 5.5 (4-5.4) USG: 1.026 2+ Hyaline casts

## SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Canine

### *Urinary System*

BREED

The urinary bladder wall is normal in thickness. The mucosal surface is smooth. The bladder is moderately distended. Luminal contents are mostly anechoic. No cystic calculi are observed. The region of the trigone and the proximal urethra, visible to a depth of 1.5 cm, are normal.

Chihuahua

SEX

The prostate is normal in size (0.64 cm in width) and shape. Parenchyma is homogenous. The prostatic urethra appears normal without evidence of dilation or obstruction.

Neutered Male

AGE

The left kidney is normal in size (3.14 cm in length) with a normal shape, architecture and smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with minimal- to mild loss of corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydronephrosis. Renal vasculature is normal.

14

WEIGHT

The right kidney is normal in size (3.18 cm in length) with a normal shape, architecture and smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with minimal- to mild loss of corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydronephrosis. Renal vasculature is normal.

3.37 kg

## INTERPRETED BY

### *Adrenal Glands*

Andrea Nicastro, DVM,  
Diplomate ACVIM  
(Small Animal Internal  
Medicine)

The left adrenal gland is normal in size (0.41 cm at cranial pole) (0.39 cm at caudal pole) with a normal shape and homogenous parenchyma. The glandular echogenicity and detail are unremarkable. Capsule, cortex, and medullary definition are normal. The phrenicoabdominal vein and surrounding vasculature are normal.

## IMAGING PERFORMED BY

The region of the right adrenal gland is evaluated. No obvious pathology is observed in this region.

Dr. Emilie Papell

### *Spleen*

The spleen is normal in size (0.97 cm in width at the level of the hilus) with a normal capsular contour. There is appropriate echogenicity and echotexture. No focal lesions are observed. Splenic vasculature is normal.

## HOSPITAL NAME

Calusa VC

### *Liver*

The liver is subjectively enlarged with slightly swollen peripheral contours. The parenchyma is isoechoic relative to the spleen and diffusely homogeneous in appearance. No distinct focal lesions are observed. Vascular and biliary tracts are of normal volume with no evidence of congestion.

## REFERRING VET

Dr. Cindy Krane

The gallbladder lumen is moderately distended. The wall is thin and smooth. A few, small, polypoid-like lesions are arising from the mucosal surface. A moderate amount of gravity-dependent, echogenic- to mineralized debris/sand is observed within the lumen. The cystic and common bile ducts are normal/not seen.

## INVOICE

22795

### *Gastrointestinal*

DATE

The gastric lumen is mildly distended with ingesta. The gastric wall is normal in thickness with a normal layering pattern. The small intestinal lumen is segmentally dilated with chyme small intestinal wall is normal in thickness with a normal layering pattern and appropriate mural detail. Discreet masses are not identified. The colonic wall is normal. There is no evidence of an obstructive pattern.

4-6-26



**PATIENT**

Gizmo Kirby

**Pancreas**

The region of the pancreas is isoechoic relative to surrounding omental fat. No obvious parenchymal abnormalities are observed. There is no evidence of regional inflammation or effusion.

**SPECIES**

Canine

**Lymph Nodes**

The abdominal lymph nodes are normal/not visible.

**BREED**

Chihuahua

**Free Abdomen**

The peritoneal cavity is normal. There is no evidence of inflammation or effusion.

**ULTRASONOGRAPHIC FINDINGS**

**SEX**

Neutered Male

- Mild bilateral nonspecific age-related renal changes
- The diffuse hepatic changes are most consistent with vacuolar hepatopathy (i.e., endocrine, idiopathic) with a lower possibility of inflammatory disease, infiltrative neoplasia, or other hepatopathy. However, correlation with the patient's liver values is recommended.

**AGE**

14

- Gallbladder debris/sand, non-mucocele

**WEIGHT**

3.37 kg

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**INTERPRETED BY**

Andrea Nicastro, DVM,  
Diplomate ACVIM  
(Small Animal Internal  
Medicine)

- Given the patient's clinical history, a urine culture and sensitivity are recommended to assess for occult infection.
- A rectal examination is also recommended to palpate the pelvic urethra and assess for pathology.
- Depending on the results of the above diagnostics, further work-up may be indicated.

**IMAGING PERFORMED BY**

Dr. Emilie Papell

**HOSPITAL NAME**

Calusa VC

**REFERRING VET**

Dr. Cindy Krane

**INVOICE**

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**DATE**

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## PATIENT

Gizmo Kirby

## SPECIES

Canine

## BREED

Chihuahua

## SEX

Neutered Male

## AGE

14

## WEIGHT

3.37 kg

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## IMAGING PERFORMED BY

Dr. Emilie Papell

## HOSPITAL NAME

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## REFERRING VET

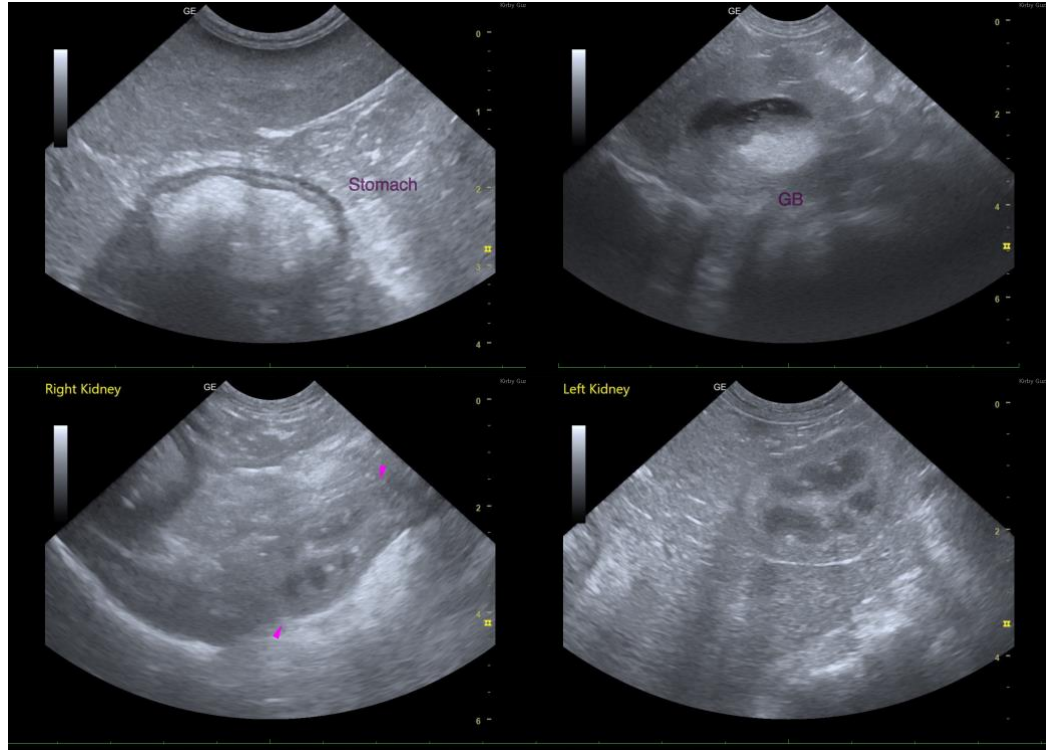
Dr. Cindy Krane

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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.

**Andrea Nicastro, MPH, DVM, Diplomate DACVIM (Small Animal Internal Medicine)**  
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