



PATIENT PRESENTING CLINICAL SIGNS

Isabell Hernandez History: Chronic kidney disease.

SPECIES Physical Examination: N/A

Canine Urinalysis: N/A.

BREED CBC: Lymphopenia, low McHc, thrombocytosis.

Shih Tzu Serum Biochemistry: Azotemia, elevated ALP activity, bilirubin, glucose, and calcium, hypoglobulinemia.

Radiographic Findings: N/A

SEX

FS

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

AGE *Urinary System*

12 years Full urinary bladder with a normal thickness (0.8 cm) and appearance of the wall. Moderate amount of floating hyperechogenic sediment. No uroliths evident.

WEIGHT Normal trigone area, proximal urethra, and iliac blood vessels.

12 # Normal iliac lymph nodes (left 0.42, right 0.3 cm). Ureters not visualized.

INTERPRETED BY Left kidney – irregular shape and capsule with loss of cortico-medullary differentiation. Large parenchymal cyst (3.9 x 5 cm) containing hyperechogenic flocculant sediment.

Remo Lobetti, BVSc,
MMedVet (Med), PhD,
Dipl. ECVIM

Right kidney – normal renal size with increase echogenic appearance, loss of cortico-medullary differentiation, irregular capsule, and pyelectasia (0.7 cm).

IMAGING PERFORMED BY *Reproductive System*

N/A.

Dr Gabriel Ferrer, DVM

Adrenal Glands

HOSPITAL NAME Normal shape, echogenic appearance, size, and position. Left 0.74 cm, right 0.6 cm.

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Spleen

REFERRING VET Normal size (0.9 cm) and echogenic appearance. Smooth homogenous parenchyma, smooth curvi-linear capsule, and normal vasculature. No evidence of inflammatory, neoplastic, infarction, or infiltrative changes noted.

Dr Andrea Vargas Perez

INVOICE *Liver*

302787 Normal size, echogenic appearance, and portal markings. No nodules or masses evident. Focal parenchymal cyst (0.5 x 0.7 cm) in the right lobe. Full gall bladder containing moderate amount of adherent hyperechogenic sediment. Normal thickness (0.16 cm) with a hyperechogenic appearance of the gall bladder wall. Normal bile duct.

DATE

3/1/22



PATIENT *Gastrointestinal*

Isabell Hernandez Normal appearance of the stomach, duodenum, small intestine, ileo-cecal junction, and colon with no loss of layering, normal wall thickness (duodenum 0.49 cm, ileum 0.38 cm, colon 0.16 cm) and peristaltic activity, and no distension of the lumen.

SPECIES

Canine *Pancreas*

BREED

Normal size (right 1.3 cm, left 1 cm) with a diffuse hyperechogenic appearance. Regular capsule. Normal echogenic appearance of the mesentery and fat surrounding the pancreas.

Shih Tzu

Free Abdomen

SEX

No mesenteric lymphadenomegaly.
No ascites.

FS

AGE

ULTRASONOGRAPHIC FINDINGS

12 years

Primary Findings:

WEIGHT

- Renal disease.
- Left renal cyst.
- Pancreatic fibrosis.

12 #

Secondary Findings:

INTERPRETED BY

- Urinary and gall bladder sediment.
- Hepatic cyst.

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IMAGING PERFORMED BY

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Dr Gabriel Ferrer, DVM

The appearance of the kidneys is consistent with chronic renal disease. Although the right sided pyelectasia may well be secondary to the renal disease, pyelonephritis needs to be considered. With the flocculant material within the left renal cyst an abscess or hematoma needs to be considered.

HOSPITAL NAME

The most likely etiology for the pancreas would be fibrosis with chronic pancreatitis, a differential diagnosis.

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REFERRING VET

Etiologies for the urinary bladder sediment would be cystitis (bacterial, sterile), crystalluria, and hemorrhage.

Dr Andrea Vargas Perez

INVOICE

Although the appearance of the gall bladder may well be an incidental finding, with the elevated ALP activity and bilirubin, an emerging mucocele needs to be considered.

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Further assessment would be urinalysis, urine culture, cPL/PSL assay, and possibly percutaneous drainage of the renal cyst for fluid analysis and culture.

DATE

Specific therapy would be dependent on an etiological diagnosis. Symptomatic therapy would be renal diet, course of antibiotics (penicillins, cephalosporins, quinolones), and ursodiol.

3/1/22



PATIENT

Isabell Hernandez

IMAGES

Gall bladder

SPECIES

Canine

BREED

Shih Tzu

SEX

FS

AGE

12 years

WEIGHT

12 #

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HOSPITAL NAME

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DATE

3/1/22



Pancreas





PATIENT Left kidney

Isabell Hernandez

SPECIES

Canine

BREED

Shih Tzu

SEX

FS

AGE

12 years

WEIGHT

12 #

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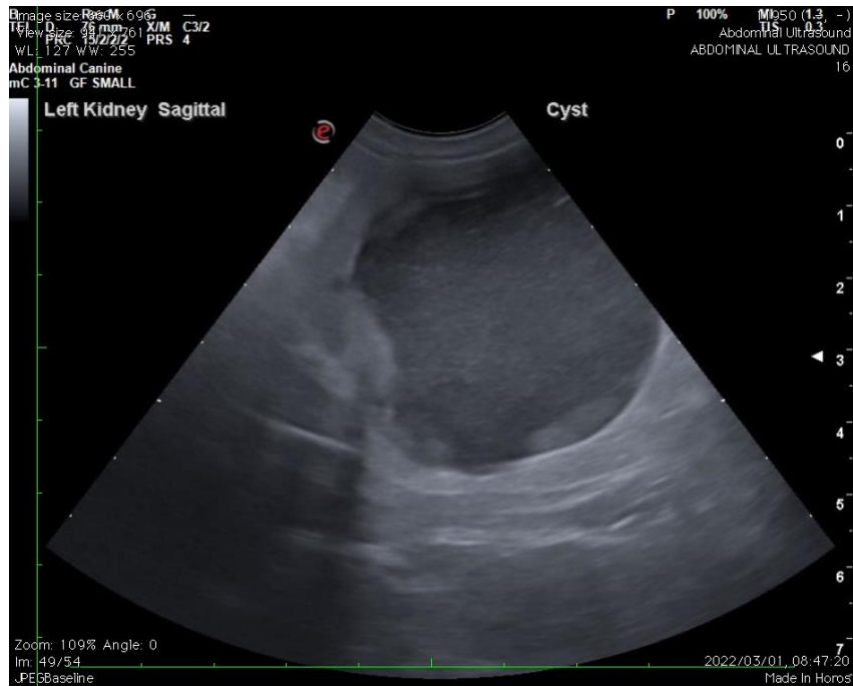
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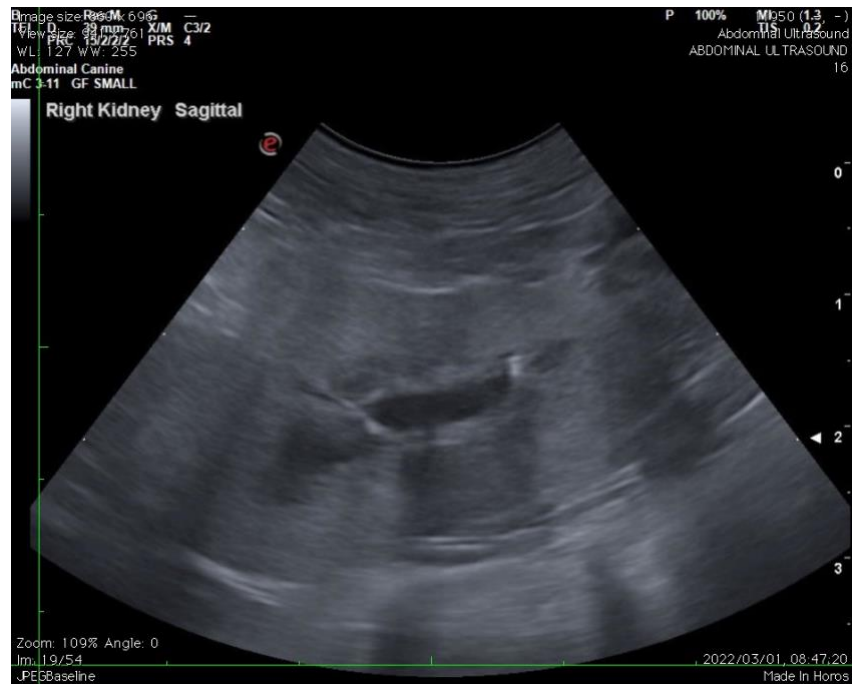
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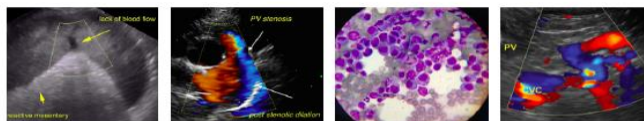
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Right kidney





PATIENT

Urinary bladder

Isabell Hernandez

SPECIES

Canine

BREED

Shih Tzu

SEX

FS

AGE

12 years

WEIGHT

12 #

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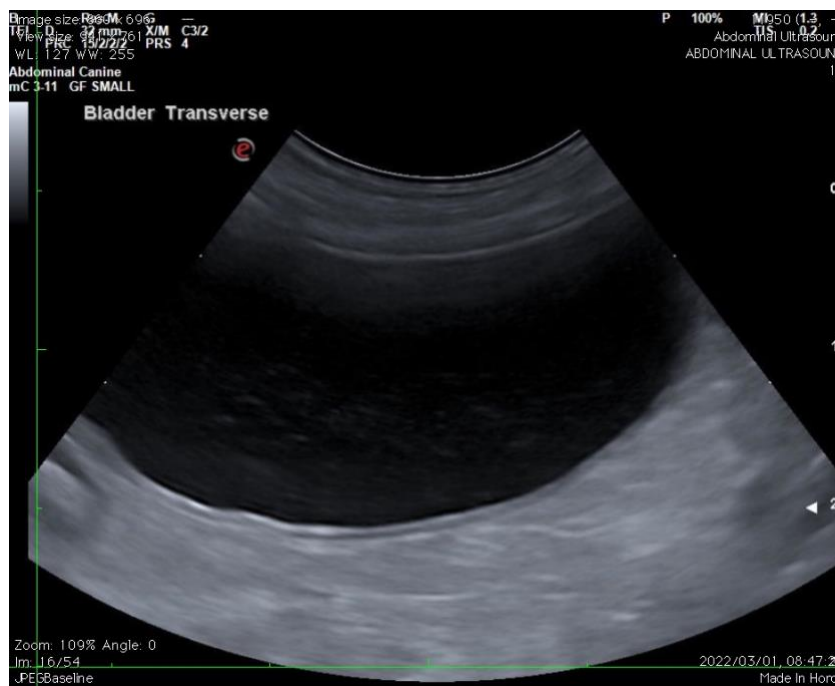
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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