



## PATIENT

Callisto McDaniel

## SPECIES

Guinea Pig

## BREED

## SEX

Intact female

## AGE

3 years 11 months

## WEIGHT

1.8 lbs

## INTERPRETED BY

Dr. Alicia Angosto  
Guerrero

## IMAGING PERFORMED BY

Ryan Moreno

## HOSPITAL NAME

Seven Fields VH

## REFERRING VET

Dr. Moreno

## INVOICE

71239

## DATE

2/4/26

## PRESENTING CLINICAL SIGNS

- Chronic history of hematuria wax and wane. Responded to SMZ and then when off SMZ would come back, previous urine culture was negative. Continued gross sediment in urine and radiopaque material in lumen of bladder on radiograph. On Gabapentin 50mg/mL: 0.05mL BID. Stool is fairly normal and eating is better but does decrease a little. On critical care off and on as needed.
- 2/4/26: UA: Ca Ox dihydrate crystals Urine Culture: Pending Previous radiographs on 1/5/26 showed potential for some foreign material in stomach region, palpable on physical exam but nothing in stools since. 12/20/25: AST: 66 ALT: 33 ALP: 48 CRE: <0.2 BUN: 12 NA: 135 K: 8.4 1/13/26: TP: 23.4 Alb: 14.4 AST: 69 ALT: 28 ALP: 47 CRE: 1.6 BUN: 81 P: 12.3 Gluc: 264 K: 6.0

## ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

### Urinary System

The urinary bladder lumen is underdistended. Due to underdistension, urinary bladder wall thickness may be overestimated. The urine is predominantly anechoic with a small amount of mineral sediment. The bladder neck and proximal urethra have a normal ultrasonographic appearance. No large uroliths are identified, and there is no sonographic evidence of severe inflammatory change.

The left kidney is normal in shape and size, measuring 2.52×1.34 cm. Cortical thickness measures 0.22 cm in the sagittal plane. The right kidney is normal in shape and size, measuring 2.46×1.45 cm. Cortical thickness could not be reliably measured. In both kidneys, the renal cortex is isoechoic relative to the hepatic parenchyma. The corticomedullary ratio and corticomedullary definition are preserved. Both kidneys demonstrate diffusely increased medullary echogenicity, a common ultrasonographic finding in guinea pigs related to species-specific calcium metabolism and renal calcium excretion. There is no evidence of pyelectasia, nephrolithiasis, or hydronephrosis.

The uterus measures 8.72 mm in thickness. The ovaries are not visualized.

### Adrenal Glands

The left adrenal gland measures 0.35 cm. The right adrenal gland is not visualized.

### Spleen

The spleen could not be visualized. In guinea pigs and other hindgut fermenting herbivores, splenic evaluation may be limited by overlying cecal and gastric contents.

### Liver

The liver is subjectively normal in size, with sharp margins and a regular contour. The hepatic parenchyma is uniform and isoechoic relative to the falciform fat, with normal echotexture.



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The gallbladder lumen is normally distended. A focal intraluminal polypoid structure measuring 3.95×2.17 mm is identified. The gallbladder contents are predominantly anechoic. No dilation of the cystic duct or common bile duct is observed.

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### *Gastrointestinal*

## BREED

The stomach contains a small amount of ingesta and is not markedly distended for a guinea pig. Gastric mural thickness measures 1.26 mm, and the pylorus measures 1.47 mm. Wall layering is preserved.

## SEX

Intact female

Several portions of the gastrointestinal tract contain material producing marked acoustic shadowing. No proximal gastrointestinal dilation or obstructive pattern is identified. These findings are not clearly intragastric and are instead consistent with intraluminal material located within the small and/or large intestine. The duodenal wall thickness measures 0.74 mm. The more distal small intestine wall thickness measures 0.80 mm, with normal peristalsis observed.

## AGE

3 years 11 months

The cecum contains a moderate amount of content of normal consistency, neither excessively fluid nor impacted. The cecal wall is thin, measuring 0.28 mm.

## WEIGHT

1.8 lbs

No evidence of tympany is identified.

### *Pancreas*

## INTERPRETED BY

Dr. Alicia Angosto  
Guerrero

A small portion of the pancreas is visualized, measuring 3.07 mm in thickness. The pancreatic parenchyma is isoechoic relative to the adjacent omental fat. No sonographic evidence of active inflammation or neoplastic disease is identified.

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### *Peritoneal Cavity*

No abdominal effusion or sonographic evidence of peritonitis is observed.

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## ULTRASONOGRAPHIC FINDINGS

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- Underdistended urinary bladder with mild mineral sediment.
- Diffusely increased renal medullary echogenicity bilaterally.
- Gallbladder polyp (3.95×2.17 mm).
- Intraluminal gastrointestinal material producing acoustic shadowing, compatible with possible bezoars, without obstruction.

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## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The urinary bladder is underdistended and contains a small amount of mineral sediment, without evidence of large uroliths or severe cystitis. In guinea pigs, persistent urinary mineral sediment is common and reflects species-specific calcium metabolism. Given the clinical history of hematuria and



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radiopaque bladder material on prior radiographs, intermittent or small urolithiasis and ongoing lower urinary tract irritation remain clinically relevant considerations despite the absence of large calculi on this examination.

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Both kidneys demonstrate diffusely increased medullary echogenicity with preserved architecture. In guinea pigs, this appearance is commonly associated with physiologic renal calcium excretion and should not be interpreted as primary renal disease. No obstructive changes or pelvic dilation are observed.

## BREED

The gallbladder polyp is most consistent with an incidental change with no clinical significance.

## SEX

Intact female

The gastrointestinal tract contains multiple regions of acoustically shadowing intraluminal material, without evidence of mechanical obstruction or proximal dilation. In guinea pigs, this appearance may be compatible with ingesta accumulation or bezoar formation within the large intestine. Normal peristalsis and cecal contents argue against an acute obstructive process at the time of examination.

## AGE

3 years 11 months

The uterus is visible and measures approximately 8.72 mm in thickness, which is mildly increased for a non-pregnant guinea pig. In intact female guinea pigs, this finding may be associated with hormonal stimulation, including the possibility of ovarian cystic disease, even when the ovaries are not visualized ultrasonographically.

## WEIGHT

1.8 lbs

## Recommendations

- Dietary optimization is recommended, with emphasis on a grass-hay-based diet and measured pellet intake, while limiting foods known to be high in calcium, recognizing the species-specific calcium metabolism of guinea pigs.
- Strategies to increase water intake are strongly encouraged, as urine dilution is a key component of long-term management. This may include offering multiple water sources, providing water-rich vegetables, and diluting assisted-feeding formulations when used.
- Increased daily activity and environmental enrichment are recommended, as regular movement may help promote bladder emptying and reduce urinary sediment accumulation.
- Correlation with urinalysis and clinical signs is advised, and repeat laboratory evaluation may be considered once the patient is adequately hydrated and clinically stable, to better assess renal function and mineral balance.

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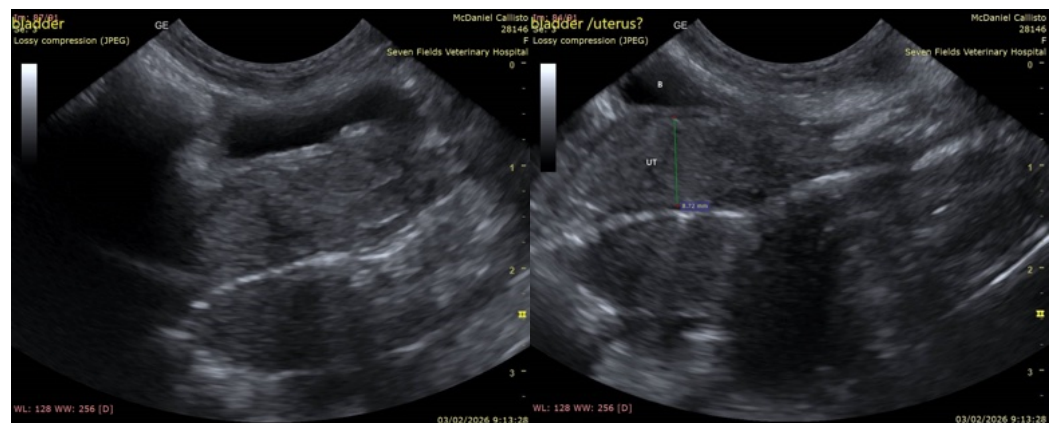
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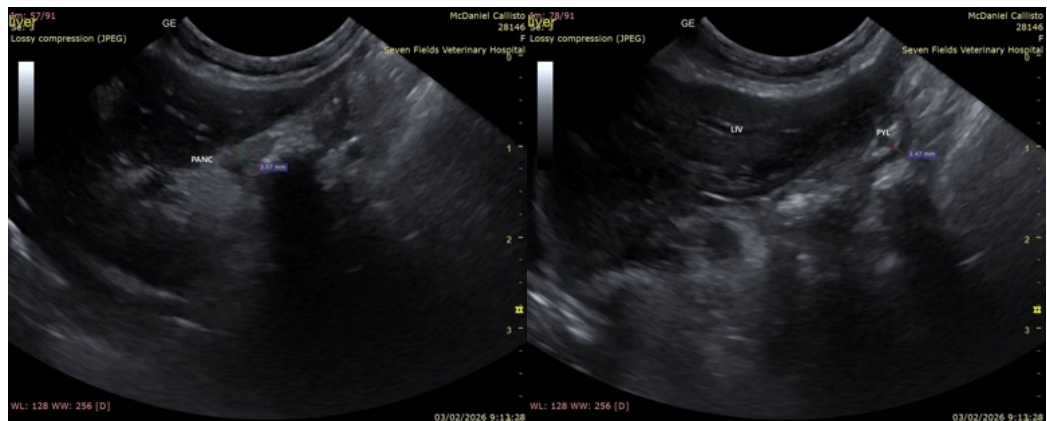
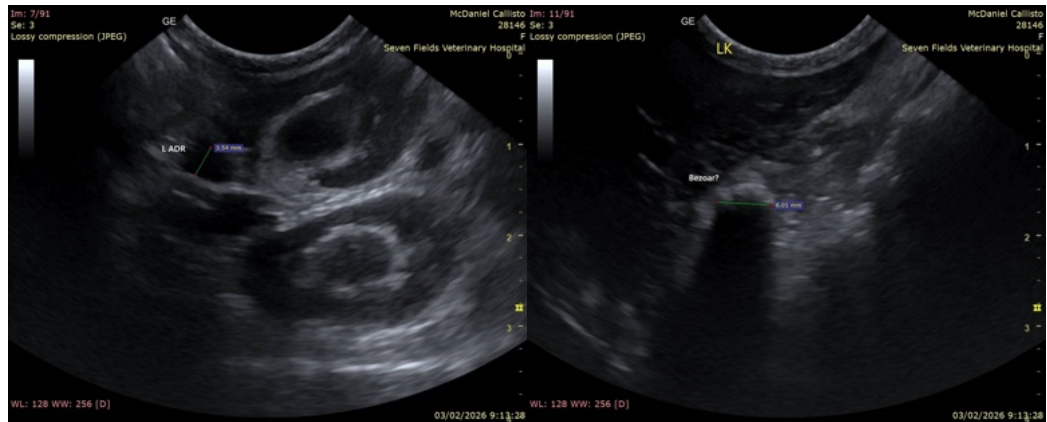
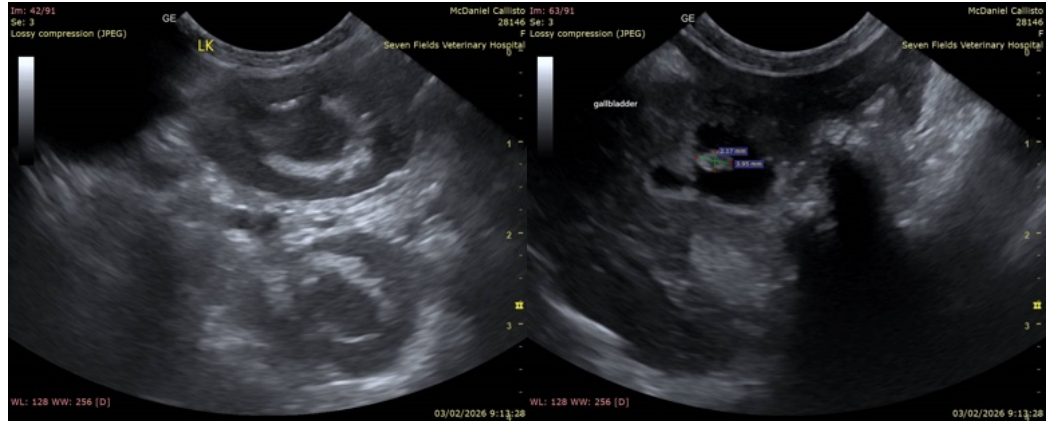
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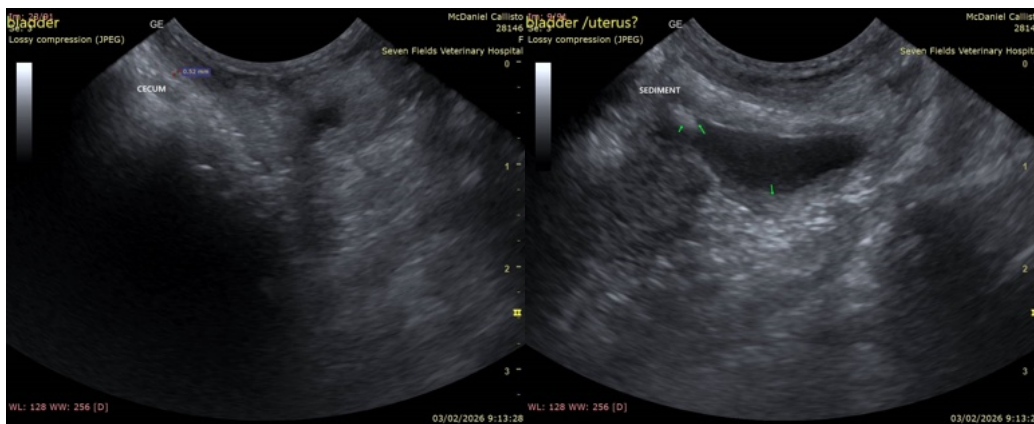
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Alicia Angosto Guerrero, DMV, PgDip, MSc.

MV Esp Ultrasound in Domestic and Wild Animals

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