



## PATIENT

Jessie Osborn

## PRESENTING CLINICAL SIGNS

**SPECIES** weight loss and high calcium level- No masses seen in thorax- No masses palpable on rectal exam.  
Abnormal PE/Chem/CBC/UA Results: 3/4 heart murmur-

Canine

## ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

### BREED

Chihuahua X

#### **Urinary System**

The urinary bladder is moderately distended with anechoic urine. The Bladder wall, trigone, ureteral papillae and visible urethra (to a depth of 2cm) appear normal with no evidence of wall thickening, mucosal irregularities, masses or cystic calculi.

### SEX

Spayed Female

The left kidney has a normal shape and size (4.74 cm). Overall echogenicity is normal with adequate corticomedullary distinction and a typical 1:3 cortex:medulla ratio. There is no evidence of perinephric inflammation or effusion. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

### AGE

12 Years

The right kidney has a normal shape and size (5.09 cm). Overall echogenicity is normal with adequate corticomedullary distinction and a typical 1:3 cortex:medulla ratio. There is no evidence of perinephric inflammation or effusion. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

### WEIGHT

19.8 Pounds

#### **Adrenal Glands**

The left adrenal gland is normal in size measuring 0.63 cm at the caudal pole. It is observed in its normal position cranial to the left renal artery. It is normal in appearance (uniformly hypoechoic) and shape with no evidence of a mass effect.

## INTERPRETED BY

Kathleen Sennello DVM,  
MS, Diplomate ACVIM  
(Small Animal Internal  
Medicine)

The right adrenal gland is normal in size measuring 0.64 cm at the caudal pole. It is observed in its normal position between the cranial aspect of the right kidney and the caudal vena cava. It is normal in appearance (uniformly hypoechoic) and shape with no evidence of a mass effect.

## IMAGING BY

Loetitia Saint-Jacques,  
LVT

#### **Spleen**

The spleen is subjectively normal in size, echotexture is homogenous, and the splenic capsule is smooth with no irregularities. The blood flow through the hilus and splenic parenchyma appears normal. No focal parenchymal abnormalities are visualized.

## HOSPITAL NAME

North Hills VC

#### **Liver**

The liver is subjectively normal in size, and echogenicity with smooth peripheral margins. The parenchyma is heterogenous in echotexture with subtle, indistinct focal mottling. The visible portions of the vasculature and biliary tract appear normal. No focal nodules or cystic lesions are observed.

## REFERRING VET

Dr. David Bagget

The gall bladder lumen is moderately distended. The wall of the gall bladder is not thickened and has a smooth mucosal surface. There is a moderate amount of non-organized echogenic debris. The cystic and common bile ducts are normal/not visible.

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## DATE

7/26/22



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### **Gastrointestinal**

The stomach contains minimal luminal contents. It measures at a normal thickness of <0.7cm with some variability due to the presence of rugal folds. The distinction of the gastric wall layers is adequate and there is no impression of reduced peristaltic activity. No masses or focal lesions were observed.

## SPECIES

Canine

## BREED

Chihuahua X

The visualized areas of duodenum, jejunum and ileum have a relatively uniform diameter with minimal fluid distension. Wall thickness is normal. Bowel loops follow a curvilinear path with distinct wall layering maintaining the typical 1:3 muscularis:mucosa layer ratio. The duodenum measured as normal (between 0.3-0.5cm in wall thickness) and the jejunum measured as normal (between 0.2-0.47cm.) Visualized peristalsis appears appropriate. There were no focal lesions consistent with obstruction or a mass effect observed.

## SEX

Spayed Female

The ileocecal junction was visualized and exhibited normal intact wall layering and is subjectively of normal thickness. Sections of colon are visualized with formed fecal material and gas shadowing distally. There is no observed focal or generalized colon wall thickening or loss of layering.

## AGE

12 Years

### **Pancreas**

The pancreas is prominent and mottled compared to the surrounding isoechoic mesentery. There is no evidence of nodules or cystic lesions. There is no evidence of regional mesenteric inflammation or fluid.

## WEIGHT

19.8 Pounds

### **Free Abdomen**

Evaluation of the peritoneal cavity did not reveal any evidence of effusion, or subjective lymphadenomegaly. The Medial iliac nodes appear normal and there was no evidence of a caudal aortic thrombus at the bifurcation. The omentum is of normal uniform echogenicity.

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Medicine)

## ULTRASONOGRAPHIC FINDINGS

- Prominent, mottled pancreas – The pancreatic changes are most consistent with age-related parenchymal remodeling, potentially secondary to a prior inflammatory episode, early fibrosis or chronic pancreatitis.
- Heterogeneous liver – The hepatic changes are consistent with age-related parenchymal remodeling and are not considered clinically significant at this time.
- Moderate gallbladder debris – The significance of the aggregated gallbladder sludge is unclear. This could represent an early mucocele, cholestasis, or may be secondary to fasting.

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LVT

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## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

## REFERRING VET

Dr. David Bagget

Today's scan is relatively normal for a 12 year old Chihuahua. There is no evidence of lymphadenopathy, and no focal mass lesions are observed. Recommend a hypercalcemia malignancy panel to Michigan State University for an ionized calcium, PTH, and PTHrP level. Primary hyperparathyroidism would be the primary differential to rule out before continuing through your diagnostic process. If liver enzyme elevations are present, you could consider a fine needle aspirate of the liver, provided coagulation parameters are normal.

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**PATIENT**

Jessie Osborn

**SPECIES**

Canine

**BREED**

Chihuahua X

**SEX**

Spayed Female

**AGE**

12 Years

**WEIGHT**

19.8 Pounds

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**HOSPITAL NAME**

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**REFERRING VET**

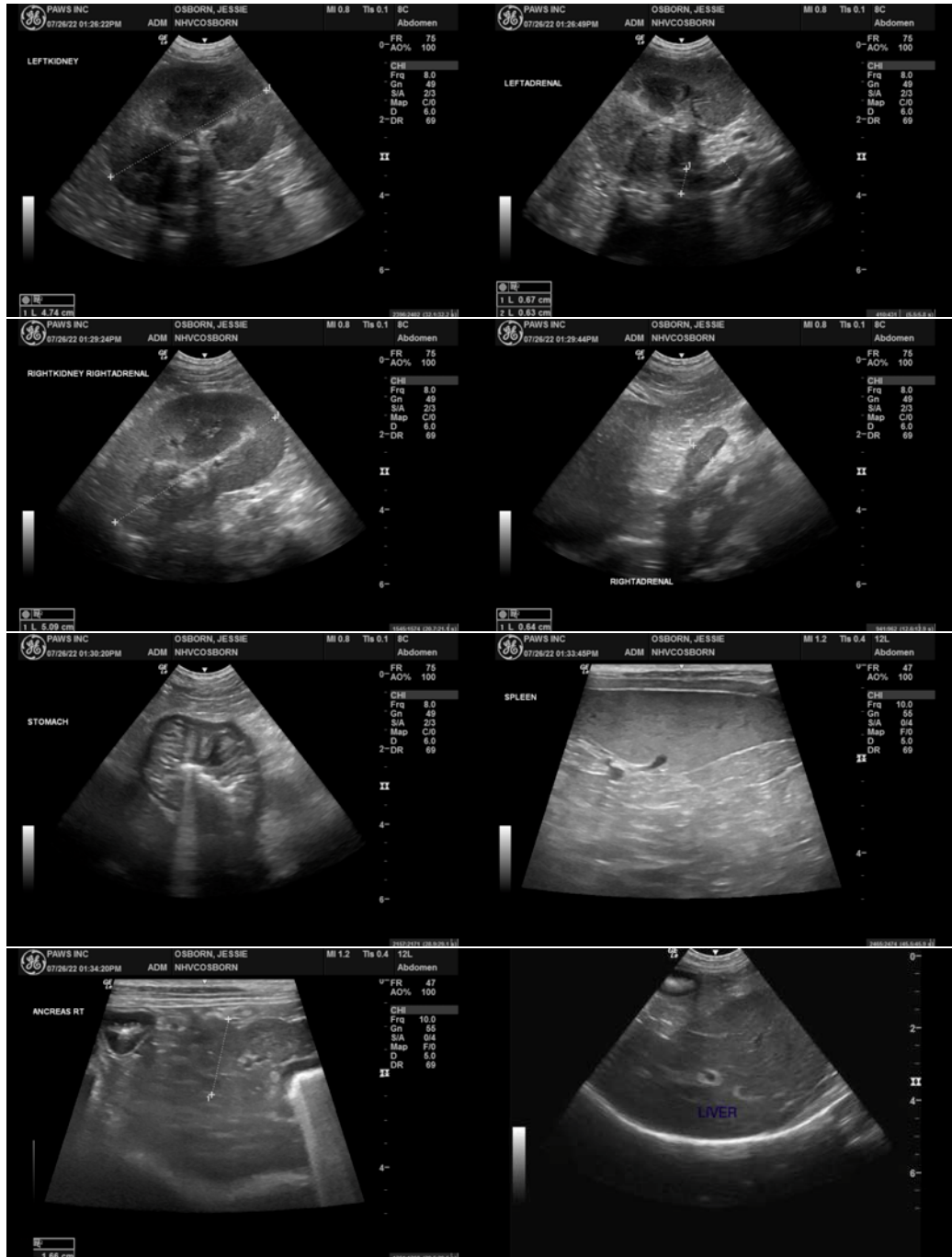
Dr. David Bagget

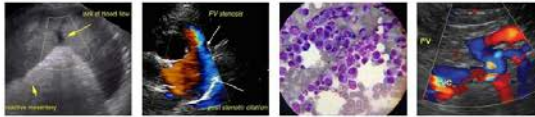
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Portable Animal Wellness Sonography, Inc.

IMAGING PERFORMED BY

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**PATIENT**

Jessie Osborn

**SPECIES**

Canine

**BREED**

Chihuahua X



**SEX**

Spayed Female

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.

**AGE**

12 Years

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.

**WEIGHT**

19.8 Pounds

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