

## PATIENT

Caliadne Tanner

## SPECIES

Canine

## BREED

Chihuahua Cross

## SEX

Intact female

## AGE

6 months

## WEIGHT

1.6 kg

## INTERPRETED BY

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

## IMAGING PERFORMED BY

Kelly Reshny, RVT

## HOSPITAL NAME

Hartzel AH

## REFERRING VET

Dr. Smith

## INVOICE

46692

## DATE

8/21/23

## PRESENTING CLINICAL SIGNS

History: concern for possible hepatic microvascular dysplasia  
CBC-WNL Glob 23 (25-45) ALT 170 (1-125) All else WNL

## ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

### Urinary System

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The ureters were not visible which is normal. No uroliths or sediment were visualized and anechoic urine was present. No evidence of inflammatory or neoplastic changes was noted. Ureteral papillae were normal.

The **kidneys** revealed normal size and structure, corticomedullary definition and ratio for this age. The cortices presented largely uniform texture with normal echogenic relationship to liver and spleen. Medullary structure differed distinctly from the cortex and no evidence of pelvic dilation was present. The capsules were acceptably uniform without significant irregularities. The left kidney measured 2.8 cm. The right kidney measured 2.77 cm.

### Adrenal Glands

Both **adrenal glands** were visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. The right adrenal gland measured 1.2 x 0.6 cm at the cranial pole and 0.25 cm at the caudal pole. The left adrenal gland measured 1.24 x 0.26 cm at the caudal pole and 0.3 cm at the cranial pole.

### Spleen

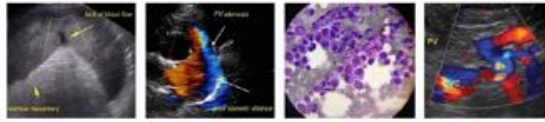
The **spleen** presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The capsule was smooth without noticeable expansion or deviation from within the spleen or adjacent pathology. The splenic vasculature demonstrated normal volume without signs of congestion or thrombosis. No sonographic evidence of acute or chronic inflammatory, neoplastic, or infarctual changes was noted.

### Liver

The **liver** was mildly subnormal in size with normal hepatic vascular volume. Portal vein measured 0.34 cm, vena cava measured 0.3 cm. The hepatic vein volume was normal. The gallbladder presented acceptably thin walls with primarily anechoic content. The cystic and common bile ducts were normal. No pathological hepatic lymphadenopathy was evident.

### Gastrointestinal

Examination of the **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. Small and large intestine



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demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.

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**Pancreas**

The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Pancreatic duct and capsular contour were acceptably normal and parenchyma respected normal curvilinear patterns. No overt evidence of active inflammatory or neoplastic disease was noted.

**BREED**

Chihuahua Cross

**ULTRASONOGRAPHIC FINDINGS**

Mild microhepatica, likely microvascular dysplasia/portal vein hypoplasia.

**SEX**

Intact female

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**AGE**

6 months

There is no evidence of macroscopic shunting, yet mild microhepatica is present. Bile acid profile is warranted. Liver biopsy can be taken at the time of spay surgery if the patient is destined for ovariohysterectomy in order to medically manage this patient. However, there was no evidence of macroscopic shunting present.

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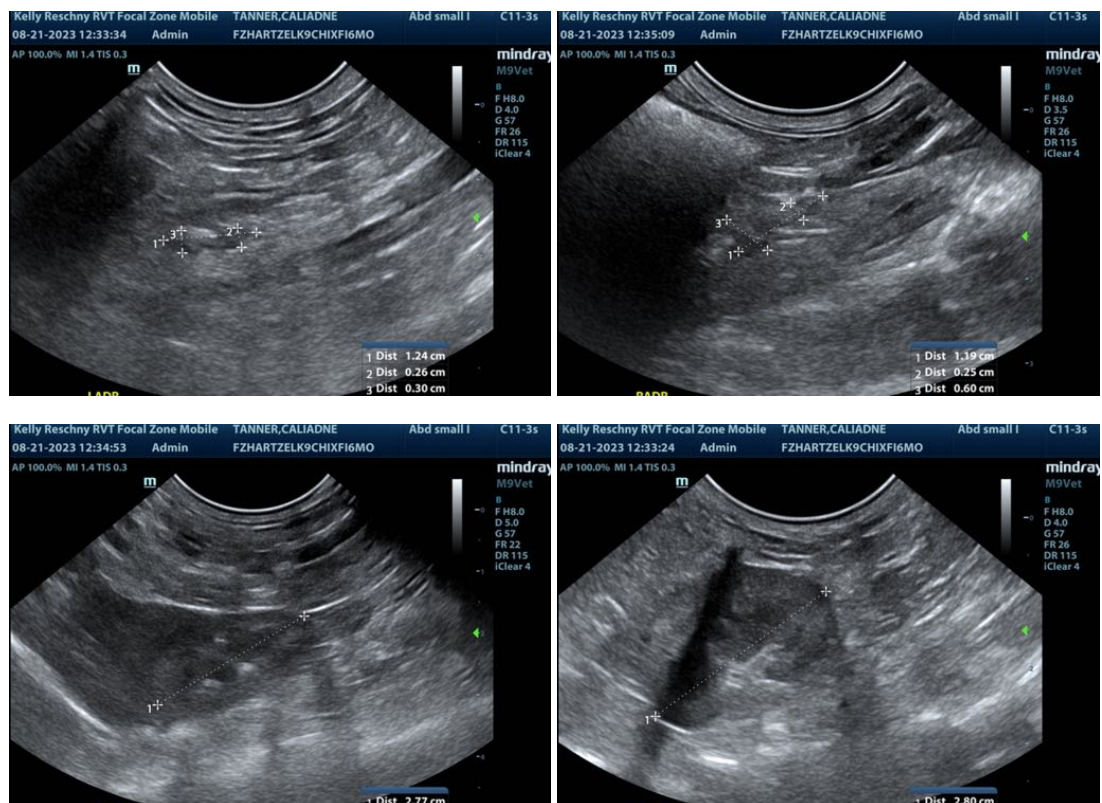
Dr. Smith

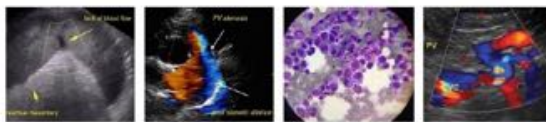
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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.

**BREED**

Chihuahua Cross

**Eric Lindquist**, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com  
Eric.Lindquist@SonoPath.com

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