



**PATIENT PRESENTING CLINICAL SIGNS**

**PATIENT** Blacky Arias  
**SPECIES** Canine  
**BREED** Chihuahua  
**SEX** Intact male  
**AGE** 12 years  
**WEIGHT** 13 lbs

History: Bilateral cryptorchid, both testicles inguinal, the right one is bigger than the left one. Severe dental disease. History of myxomatous mitral (severe) and tricuspid (mild) valve disease  
 Abnormal PE/Chem/CBC/UA Results: Blood work 2/12/23: High globulin 4.6 (1.6-3.6) Normal WBC (13.7), with monocytosis (1096) Rest of the bloodwork (including T4) 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 **prostate** was uniformly enlarged with lobar swelling appeared to impinge upon the urethra and mildly deviate the descending colon. The prostatic tissue was hyperechoic containing focal areas of decreased echogenicity. These changes are suggestive of either chronic inflammatory episodes, benign cystic pathology or both. Underlying neoplasia cannot be completely ruled-out but is lower on the differential list. This presentation is most consistent with benign prostatic hyperplasia with possible active prostatitis. Neutering or off-label Finasteride (Propecia) (0.1-0.5 mg/kg Sid) treatment is indicated +/- FNA or prostatic wash cytology and culture. Microcystic changes were noted without any significant edema lines. This is most consistent with BPH, minor prostatitis is possible. The prostate measured 3.5 cm.

The left testicle was subcutaneous and extraabdominal just external to the inguinal canal measuring 1.8 x 0.9 cm. The right testicle was subcutaneous and enlarged measuring 4.2 x 2.1 cm. The right testicle is heterogenous with some loss of structural detail and deviation of the median raffe.

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 3.92 cm. The right kidney measured 4.3 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 0.42 cm at the caudal pole and 0.38 cm at the cranial pole. The left adrenal gland measured 0.4 cm at the caudal pole and 0.45 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

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Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Tudor Suci

**HOSPITAL NAME**

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**REFERRING VET**

Dr. Thomas

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congestion or thrombosis. No sonographic evidence of acute or chronic inflammatory, neoplastic, or infarctual changes was noted.

Blacky Arias

**SPECIES**

**Liver**

Canine

The **liver** images submitted revealed subjectively normal liver size, contour, and structure. Parenchymal echogenicity was naturally coarse and hypoechoic to the spleen. Vascular and biliary tracts were of normal volume with no evidence of congestion. The gallbladder presented acceptably thin walls with primarily anechoic content. The cystic and common bile ducts were normal. No pathological hepatic lymphadenopathy was evident. No overt structural evidence of inflammatory, infiltrative or regenerative pathology was evident.

**BREED**

Chihuahua

**SEX**

**Gastrointestinal**

Intact male

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

**AGE**

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**Pancreas**

13 lbs

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.

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**ULTRASONOGRAPHIC FINDINGS**

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BPH prostate.

Bilateral subcutaneous cryptorchid external to the inguinal canals. Disrupted architecture of the right cryptorchid, potential Sertoli cell tumor.

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There was no evidence of abdominal disease.

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**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Bilateral cryptorchid surgery is indicated with biopsies of the right testicle. Chest radiographs are recommended to assess for metastatic disease.

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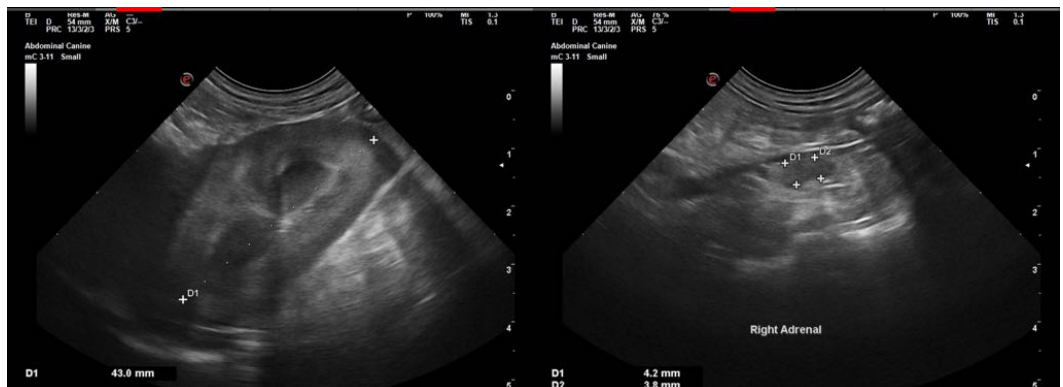
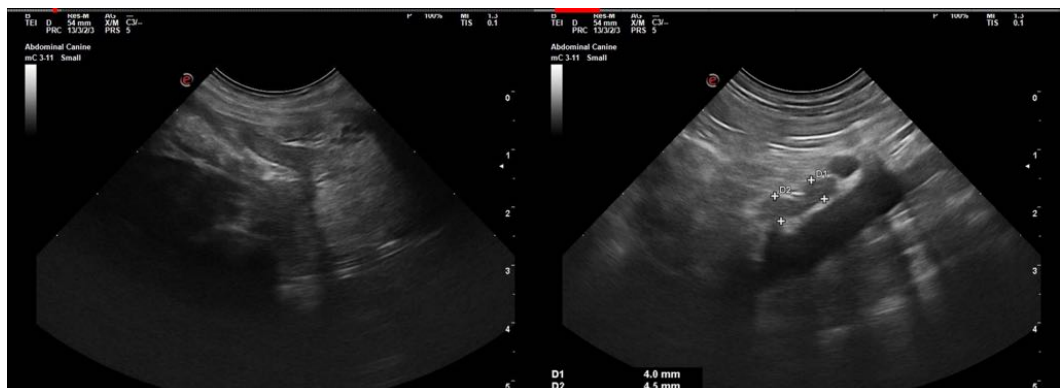
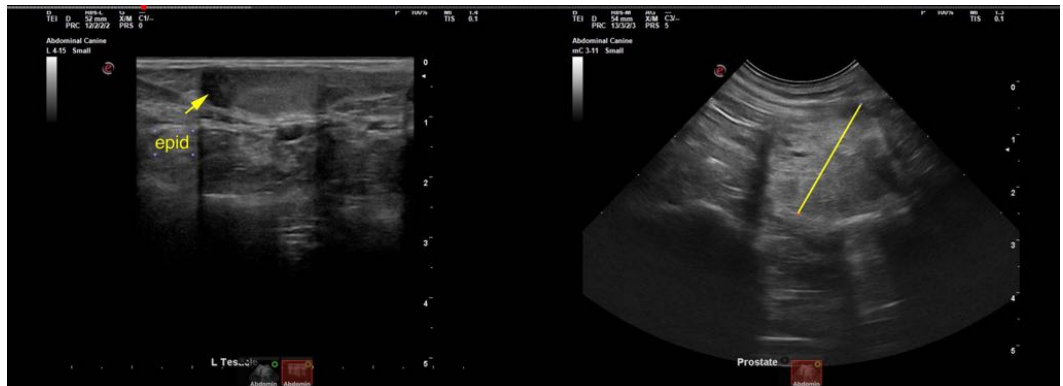
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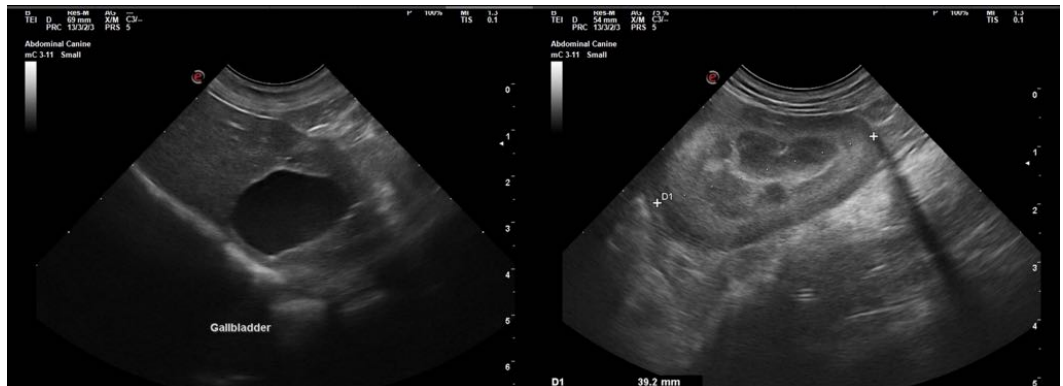
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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