



PATIENT

Coco Houck

PRESENTING CLINICAL SIGNS

Vaginal Discharge past few weeks, good appetite
Abnormal PE/Chem/CBC/UA Results: CBC, Chem, UA Unremarkable

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

BREED

Shih Tzu

The **urinary bladder** revealed sand accumulation. Grouping of which measured 2.0 cm. The urinary bladder wall was thickened. Urethral sand was present in the pelvic urethra. Micropolypoid changes were noted in the bladder.

SEX

Spayed Female

The uterine stump was dilated in this patient measuring 0.5 cm. The fluid dilation in the uterine stump continued into the pelvis.

AGE

13 years

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some age-related loss of curvilinear patterns regarding the capsule and C/M junction. Both kidneys revealed slight irregular contour. Medullary structure differed distinctly from that of the cortex. Mineralization was noted. Pelvic calculus measured 0.4 cm noted in the left kidney with trace pyelectasia. Both kidneys measured 3.0 cm.

WEIGHT

17 lbs

Adrenal Glands

The left **adrenal gland** was mildly enlarged and uniform measuring 0.8 cm at the cranial pole and 0.6 cm at the caudal pole. The right adrenal gland was slightly swollen.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

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.

IMAGING PERFORMED BY

Dr. Mack

HOSPITAL NAME

Northside VC

Liver

The **liver** images from right and left intercostal as well as subcostal views revealed subjectively normal liver size, contour, and structure. Some age-related parenchymal remodeling was noted but likely not clinically significant at this time. Vascular and biliary tracts were of normal volume and no evidence of congestion was noted. Slight lobar mineralization was noted. The gallbladder and common bile duct were unremarkable.

REFERRING VET

Dr. Mack

INVOICE

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

DATE

4/25/22



PATIENT

Pancreas

Coco Houck

The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Some parenchymal remodeling, however, with mild deviation from curvilinear normalcy was observed. Pancreatic duct and capsular irregularities were present consistent with age related changes. If pain upon imaging (+ Murphy sign) was present or if the patient is focally painful in subxiphoid palpation then low-grade smoldering chronic pancreatitis should be suspected.

SPECIES

Canine

BREED

Shih Tzu

ULTRASONOGRAPHIC FINDINGS

Renal calculi.

SEX

Spayed Female

Bladder sand and calculi.

Bilateral adrenal hypertrophy.

Fluid filled uterine stump.

AGE

13 years

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Passage of calculi from the kidneys to the bladder is likely a chronic issue in this patient. I recommend cystotomy and resection of the uterine stump in this patient as well as vaginal exam to assess for urine pooling that may be pooling and contributing to UTI. There was no evidence of residual ovaries. However, the ovarian fossa should be fully examined at the time of surgery. Urine culture and sensitivity as well as stone analysis is warranted.

WEIGHT

17 lbs

INTERPRETED BY

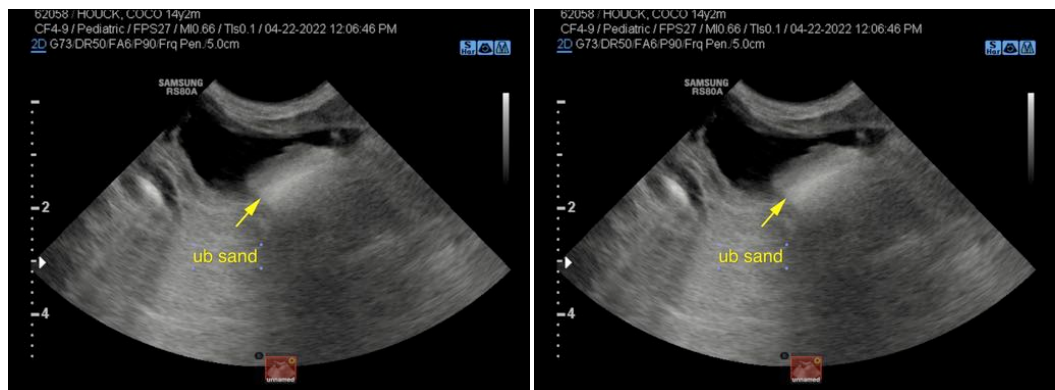
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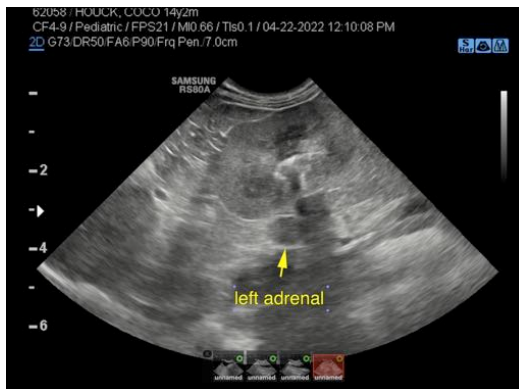
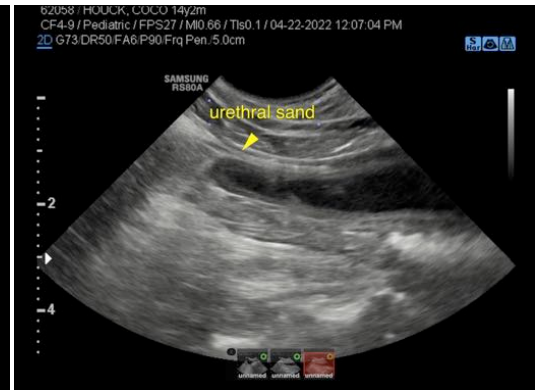
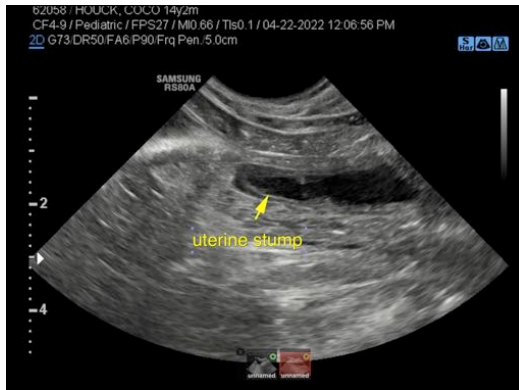
Dr. Mack

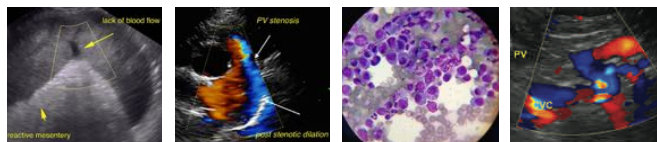
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

SPECIES

Canine

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

Shih Tzu

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

Spayed Female

AGE

13 years

WEIGHT

17 lbs

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