



**PATIENT PRESENTING CLINICAL SIGNS**

Charlie Freeburg History: Obtained from shelter. Presented with hematuria. Stones suspected with cystocentesis performed. Has uri and skin/ear infection. Shunt hunt

**SPECIES**

Abnormal PE/Chem/CBC/UA Results: Labs, bile acids pending.

Feline

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**BREED**

**Urinary System**

DSH

The **urinary bladder** revealed a 0.58 cm calculus embedded in the cystourethral junction. A minor amount of bladder sand was also noted. The bladder itself was unremarkable. The pelvic urethra was imaged 3.0 cm beyond the cystourethral junction. The deep pelvic urethra revealed a minor amount of sand, approximately 1.0 cm distal from the cystourethral junction.

**SEX**

Neutered Male

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 3.66 cm. The right kidney measured 3.88 cm.

**AGE**

15 Weeks

**WEIGHT**

N/A

**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 left adrenal gland measured 0.23 cm. The right adrenal gland measured 0.33 cm.

**INTERPRETED BY**

Eric Lindquist, DMV,  
DABVP (Canine &  
Feline), 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 were noted.

**IMAGING PERFORMED BY**

Andrea Nicastro,  
DVM, Diplomate  
ACVIM (Small Animal)

**Liver**

The **liver** hepatic parenchyma was of normal size and uniform. Intrahepatic vascular volume appeared to be normal. No evidence of extrahepatic or intrahepatic shunts. Duplicated gallbladder was noted. The portal vein to vena cava to aortic ratio was 1:1 at 0.36, 0.37 and 0.36 cm respectively at the portal hilus. The only anomaly was the duplicated gallbladder, which is a normal variant and not pathological. Portoypoplasia/microvascular dysplasia is possible yet would require a liver biopsy. Bile acid profile is recommended. If elevated, liver biopsy is warranted at the time of cystotomy.

**HOSPITAL NAME**

Flowertown AH

**REFERRING VET**

Dr. Magenta Kline

**Gastrointestinal**

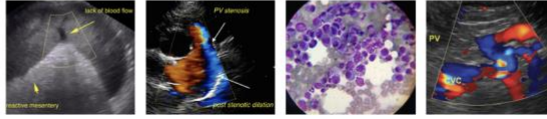
**INVOICE**

There was some residual chyme and gas was noted in the **stomach**, yet not pathological. This is consistent with end post prandial presentation. Transit of chyme into the small intestine was normal. Curvilinear patterns were maintained throughout the GI tract. No evidence of pathology. 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.

23487

**DATE**

7/19/23



**PATIENT** *Pancreas*

Charlie Freeburg

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.

**SPECIES**

Feline

**Free Abdomen**

**BREED**

DSH

The mesenteric **lymph nodes** (juvenile) were mildly enlarged, measuring 1.06 cm x 0.53 cm.

**SEX**

Neutered Male

**ULTRASONOGRAPHIC FINDINGS**

- Bladder calculi, minor bladder sand and slight urethral sand
- Structurally normal liver, however, portohypoplasia could be an issue if ammonium biurate calculi are noted.
- Juvenile mildly enlarged mesenteric lymph nodes.
- Partially full stomach

**AGE**

15 Weeks

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

I recommend bile acid profile, if elevated, then liver biopsy is warranted at the time of cystotomy and bladder lavage. Medical management is warranted until that time.

**WEIGHT**

N/A

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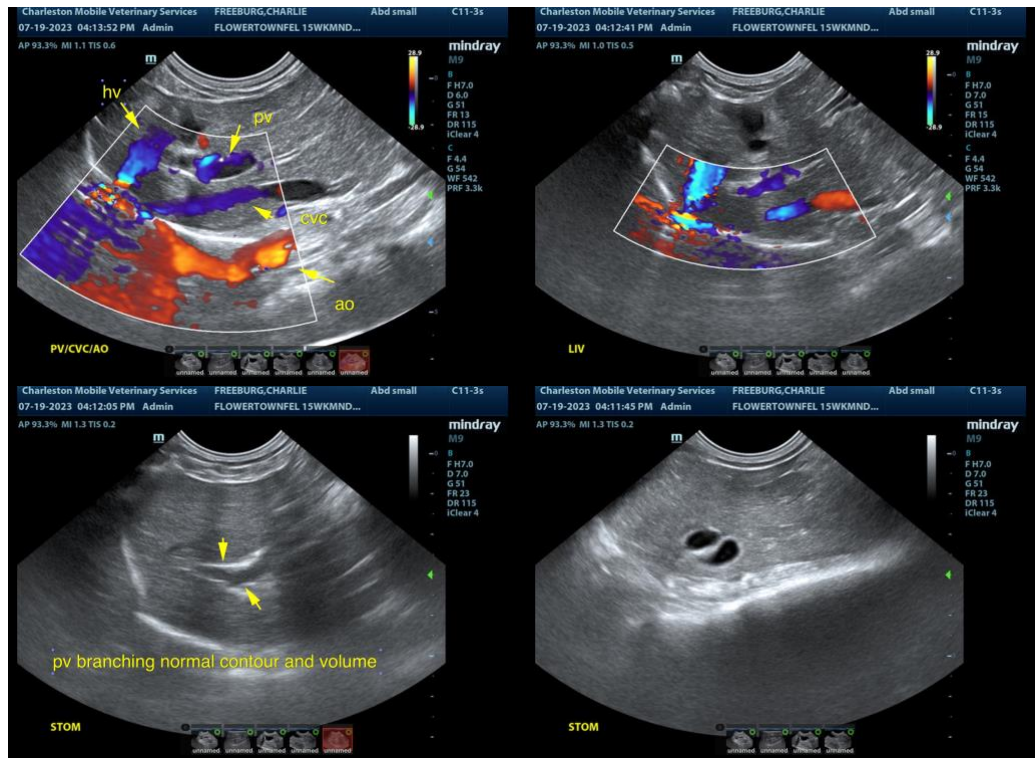
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**PATIENT**

Charlie Freeburg

**SPECIES**

Feline

**BREED**

DSH

**SEX**

Neutered Male

**AGE**

15 Weeks

**WEIGHT**

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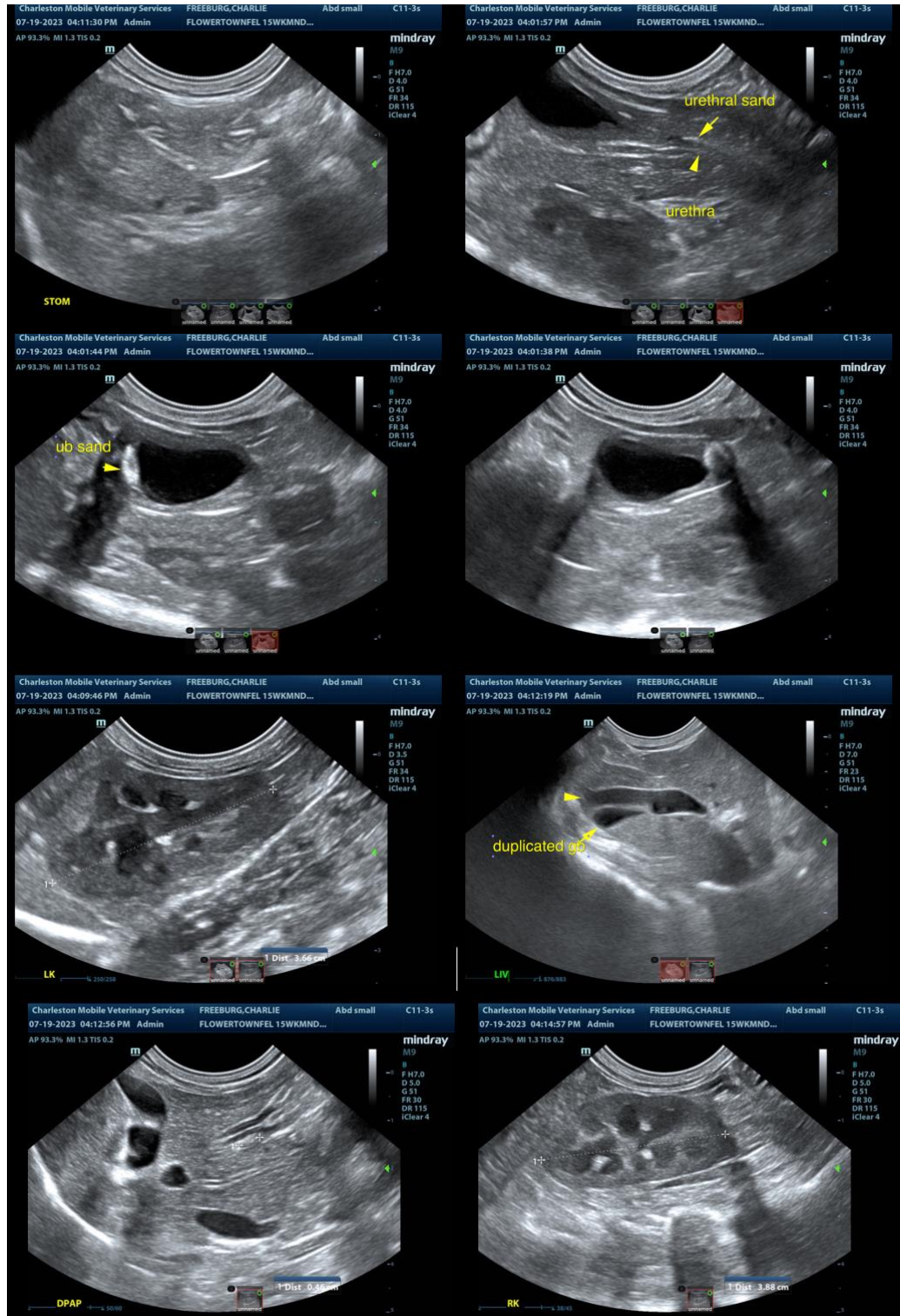
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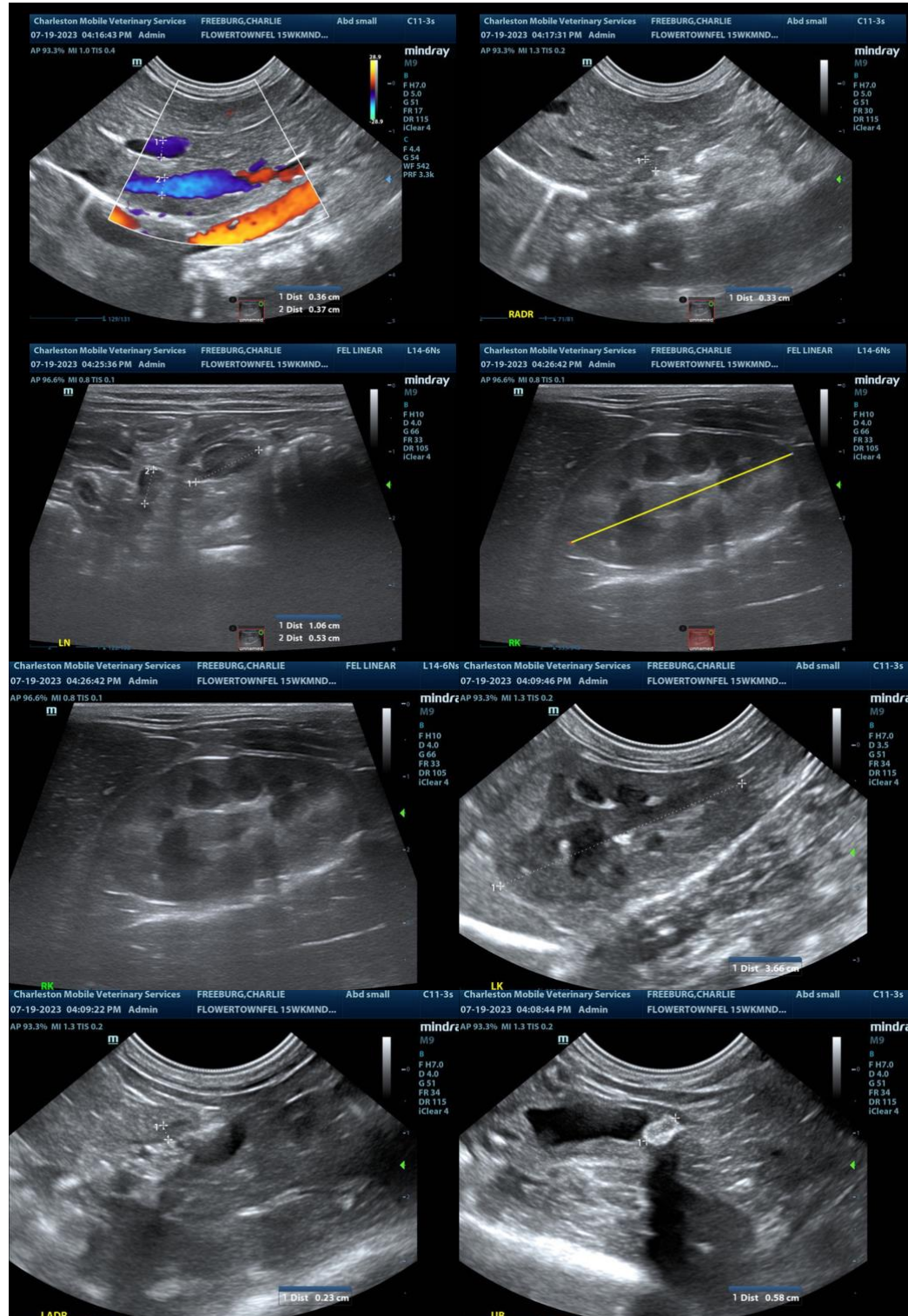
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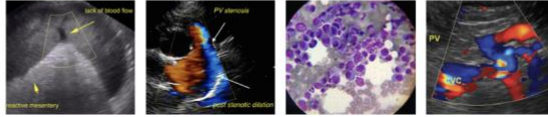
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not



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**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.

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

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