



**PATIENT PRESENTING CLINICAL SIGNS**

Izzy Zill vomiting, lethargy  
Abnormal PE/Chem/CBC/UA Results: mild pale mm, HCT 32.6, no regenerative, wbc 22, neut 17578, mass on abd rad. tp 8.4, glob 6.1

**SPECIES**

Canine

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

**BREED**

Pit X

The **urinary bladder** presented a relatively uniform thickening of the cranioventral and craniodorsal mucosae with micropolypoid mucosal changes without involvement of the submucosae. Apical wall at moderate repletion measured 5.0 mm. The urine presented some echogenicity consistent with suspended debris. No evidence of urethral pathology was present. This presentation is most consistent with chronic cystitis. Technically transitional cell carcinoma cannot be ruled out without histopathological review but is not overtly suspected based on this pattern. Cystocentesis and urine culture +/- pathological review of urine cytology would be warranted. No overt calculi were present at this time.

**AGE**

10 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. The cortices presented largely uniform texture with some increased echogenicity expected for his age patient. Medullary structure differed distinctly from that of the cortex and no evidence of pelvic dilation was present. Mineralization noted in both kidneys. The left kidney measured 5.41 cm. Anechoic cyst noted in the caudal pole of the right kidney.

**WEIGHT**

39 Pounds

**Adrenal Glands**

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

The **left adrenal gland** was 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 0.50 cm.

The **right adrenal gland** was not visualized.

**IMAGING PERFORMED BY**

Dr. Michelle Roche

**Spleen**

**HOSPITAL NAME**

Fredon AH

The **spleen** presented subtle micronodular changes and an overt parenchymal mass measuring approximately 6.0 cm. Reactive surrounding mesentery noted. Other coalescing nodular changes noted in the spleen. Some of the splenic pathology appeared to escape the splenic capsule and enter into the cranial abdomen with surrounding free fluid. Regional lymph nodes also enlarged.

**Liver**

**REFERRING VET**

Dr. Michelle Roche

The **liver** was swollen with irregular contour. Minor heterogeneous changes noted. The gallbladder was echogenic.

**Gastrointestinal**

**INVOICE**

41600

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**

9/23/22



**PATIENT**

Izzy Zill

**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.

**SPECIES**

Canine

**ULTRASONOGRAPHIC FINDINGS**

- Splenic mass and nodules with regional lymphadenopathy
- Heterogeneous hepatic changes
- Chronic cystitis bladder pattern
- Age related renal changes

**BREED**

Pit X

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**SEX**

Spayed Female

Splenic +/- hepatic neoplasia. Exploratory surgery could be considered, however clean resection is unlikely. Chest radiographs and echocardiogram indicated.

**AGE**

10 Years

**WEIGHT**

39 Pounds

**INTERPRETED BY**

Eric Lindquist, DMV

DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Michelle Roche

**HOSPITAL NAME**

Fredon AH

**REFERRING VET**

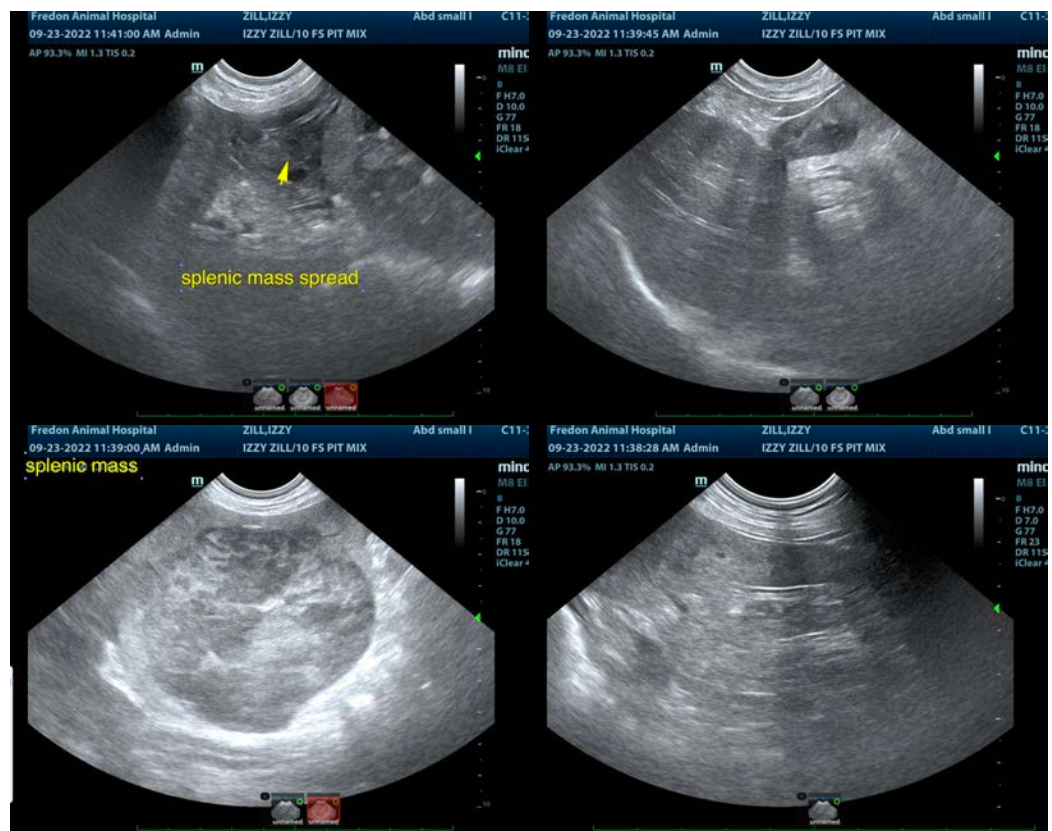
Dr. Michelle Roche

**INVOICE**

41600

**DATE**

9/23/22





**PATIENT**

Izzy Zill

**SPECIES**

Canine

**BREED**

Pit X

**SEX**

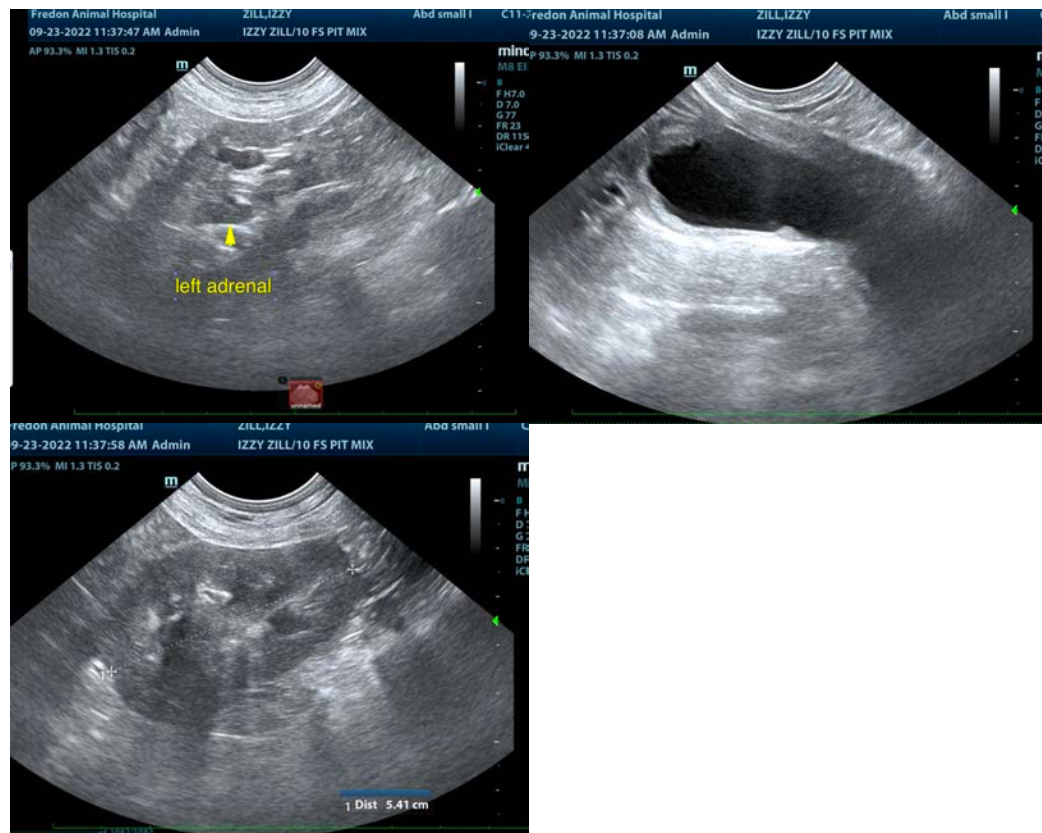
Spayed Female

**AGE**

10 Years

**WEIGHT**

39 Pounds



**INTERPRETED BY**

Eric Lindquist, DMV

DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Michelle Roche

**HOSPITAL NAME**

Fredon AH

**REFERRING VET**

Dr. Michelle Roche

**INVOICE**

41600

**DATE**

9/23/22

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.

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

[info@SonoPath.com](mailto:info@SonoPath.com)