



**PATIENT PRESENTING CLINICAL SIGNS**

Pumpkin Witte Presented for dyspnea and hematocrit of 16%. Elevated white count with a neutrophilia and monocytosis.

**SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

Feline

**Urinary System**

**BREED**

The **urinary bladder** is normal in thickness and the mucosal surface is smooth. The bladder lumen is moderately distended with anechoic urine. No masses, inflammatory changes or calculi are observed. Ureteral papillae and visualized portion of the proximal urethra, visible to a depth of 2-3 cm, are normal.

DSH

**SEX**

The **left kidney** is normal size (3.76 cm in length); normal shape and architecture with smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with mild to moderate loss of corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydronephrosis. Renal vasculature is normal.

Neutered Male

**AGE**

The **right kidney** is normal size (3.95 cm in length); normal shape and architecture with smooth peripheral margins. There is a normal 1:3 cortex to medulla ratio with mild loss of corticomedullary distinction. There is no evidence of pyelectasia, nephroliths, infarcts or hydronephrosis. Renal vasculature is normal.

12 years

**WEIGHT**

**Adrenal Glands**

6.2 kg

The **left adrenal gland** is normal size (0.36 cm width). Normal shape and glandular echogenicity. The phrenicoabdominal vein and surrounding vasculature are normal.

**INTERPRETED BY**

The **right adrenal gland** is normal size (0.38 cm width). Normal shape and glandular echogenicity. The phrenicoabdominal vein and surrounding vasculature are normal.

Andrea Nicastro,  
DVM, Diplomate  
ACVIM (Small Animal  
Internal Medicine)

**Spleen**

The **spleen** is enlarged (0.26 cm in width at the level of the hilus) with a swollen, slightly undulating medial contour and swelling/rounding of the cranial pole. The parenchyma is subjectively hypoechoic and homogenous in appearance. Splenic vasculature appears normal with no evidence of thrombosis.

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**Liver**

Andrea Nicastro,  
DVM, Diplomate  
ACVIM (Small Animal  
Internal Medicine)

The **liver** is subjectively prominent in size with slightly swollen peripheral contours. The parenchyma is of appropriate echogenicity and echotexture and is diffusely homogenous. No focal lesions are observed. Hepatic vasculature and intrahepatic biliary tracts are of normal volume with no evidence of congestion. The portal vein to caudal vena cava ratio is approximately 1: 1.

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The **gall bladder** lumen is moderately distended. The wall is thin and smooth. Luminal contents are anechoic. The cystic and common bile ducts are normal/not seen.

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**Gastrointestinal**

**REFERRING VET**

The **stomach and intestine** are free of stasis and exhibit normal peristaltic activity. The gastric lumen is not distended. The gastric wall and pylorus are normal in thickness with a normal layering pattern. The pyloric outflow tract is patent. The small intestinal lumen is not dilated. The small intestinal wall thickness is normal with a normal layering pattern and appropriate mural detail. There is disruption in the normal 1:3 muscularis: mucosal ratio in most segments. Discreet masses are not identified. The ileocecal colic junction and colonic wall are normal. No obstructive disease is noted.

Dr. Jeremy Libby

**INVOICE**

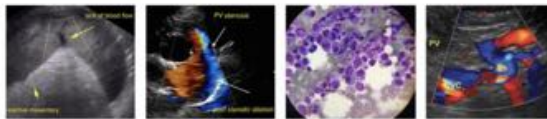
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**DATE**

**Pancreas**

The **pancreas** is diffusely prominent to enlarged with minimal deviation from the normal peripheral

9.26.22



**PATIENT**

contours. The parenchyma is largely isoechoic relative to surrounding omental fat and mottled in appearance. No distinct focal lesions are observed. The pancreatic duct is not overtly dilated.

Pumpkin Witte

**SPECIES**

**Free Abdomen**

The mesentery throughout the abdomen is mildly hyperechoic. Trace free fluid is observed. Several enlarged, rounded, hypoechoic **lymph nodes** are observed throughout the abdomen. The largest mesenteric lymph node measures 2.16 cm in diameter. The periportal lymph nodes are enlarged and cystic, the largest measuring 1.75 cm in length. The mesentery surrounding all nodes is hyperechoic.

Feline

**BREED**

**Other**

A **brief echocardiogram** reveals no evidence of pericardial effusion or chamber enlargement. There is no evidence of a right atrial/auricular mass. No pleural effusion is seen. One to two cranial mediastinal lymph nodes are visualized, the largest measuring 2.16 cm in length.

DSH

**SEX**

**ULTRASONOGRAPHIC FINDINGS**

Neutered Male

**Primary Findings**

**AGE**

- The cranial mediastinal and abdominal lymphadenopathy is most concerning for infiltrative neoplasia. Lymphoma is the top differential. Lymphadenitis (i.e., pyogranulomatous), however, cannot be completely excluded.

12 years

**WEIGHT**

- The splenomegaly is also concerning for infiltrative neoplasia. Other differentials include extramedullary hematopoiesis, lymphoid hyperplasia, antigenic stimulation and splenitis.

6.2 kg

- Mild peritonitis is present, likely secondary to splenic and lymph node pathology.

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**Secondary Findings**

Andrea Nicastro,  
DVM, Diplomate  
ACVIM (Small Animal  
Internal Medicine)

- Bilateral degenerative renal changes
- Bowel pattern consistent with inflammatory bowel disease with potential for emerging lymphoma.
- The mild hepatomegaly may be a normal variant for this large breed cat. Alternatively, emerging neoplasia, inflammatory disease or other hepatopathy may be present. Correlation with the patient's liver values is recommended.
- The pancreatic changes are most consistent with age-related parenchymal remodeling, potentially secondary to a prior inflammatory episode, early fibrosis or chronic pancreatitis.

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DVM, Diplomate  
ACVIM (Small Animal  
Internal Medicine)

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**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

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- Consider fine-needle aspirates of the spleen, abdominal lymph nodes, +/- liver (if clotting status is appropriate). Twenty-five gauge-needles should be used.

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- Feline leukemia and FIV testing are also recommended.

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- Supportive care, including a blood transfusion and symptomatic treatment is warranted.

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Pumpkin Witte

**SPECIES**

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**AGE**

12 years

**WEIGHT**

6.2 kg

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**REFERRING VET**

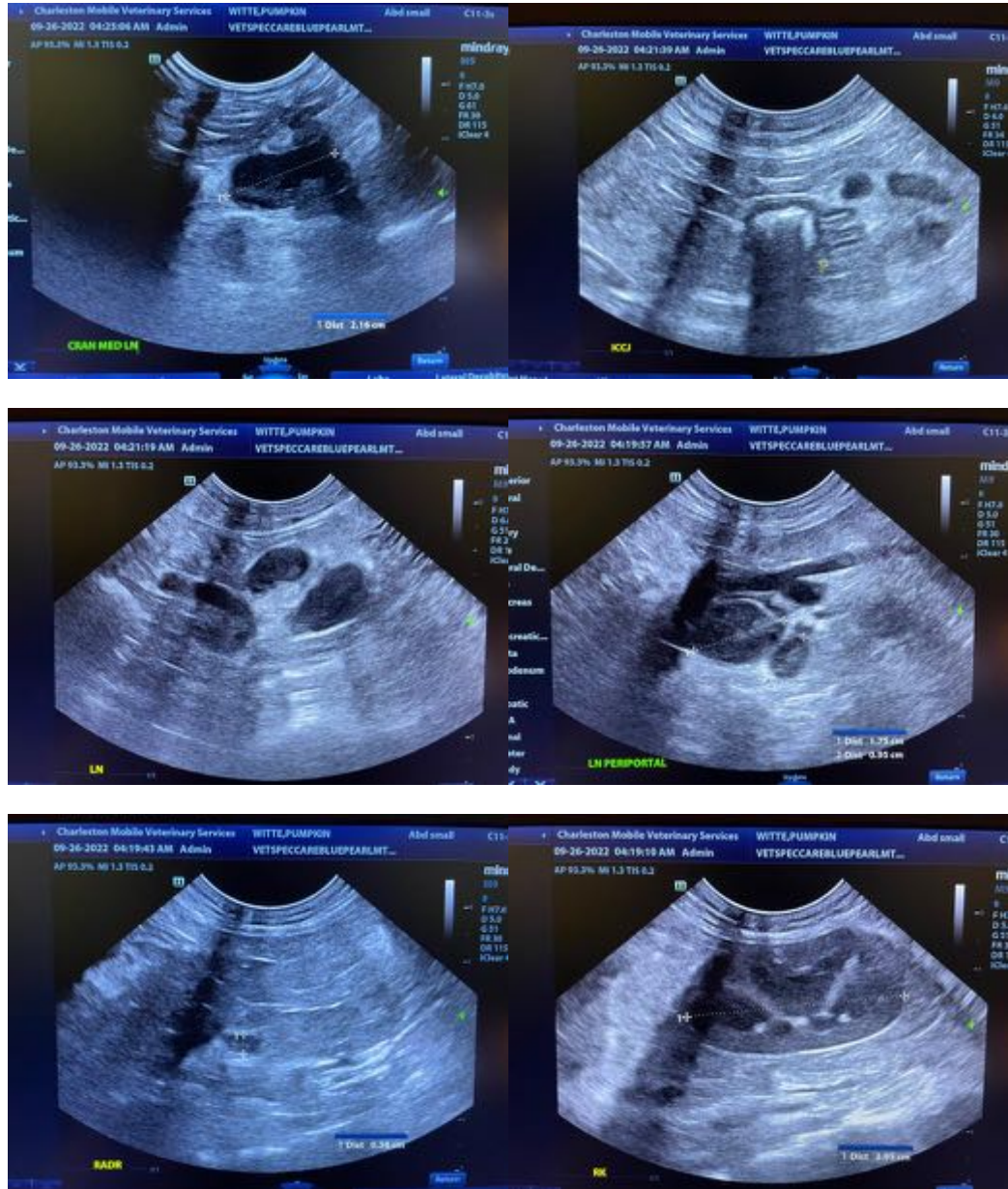
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Pumpkin Witte

**SPECIES**

Feline

**BREED**

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**SEX**

Neutered Male

**AGE**

12 years

**WEIGHT**

6.2 kg

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Andrea Nicastro, DVM, Diplomate ACVIM (Small Animal Internal Medicine)

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Andrea Nicastro, DVM, Diplomate ACVIM (Small Animal Internal Medicine)

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Blue Pearl Mt Pleasant

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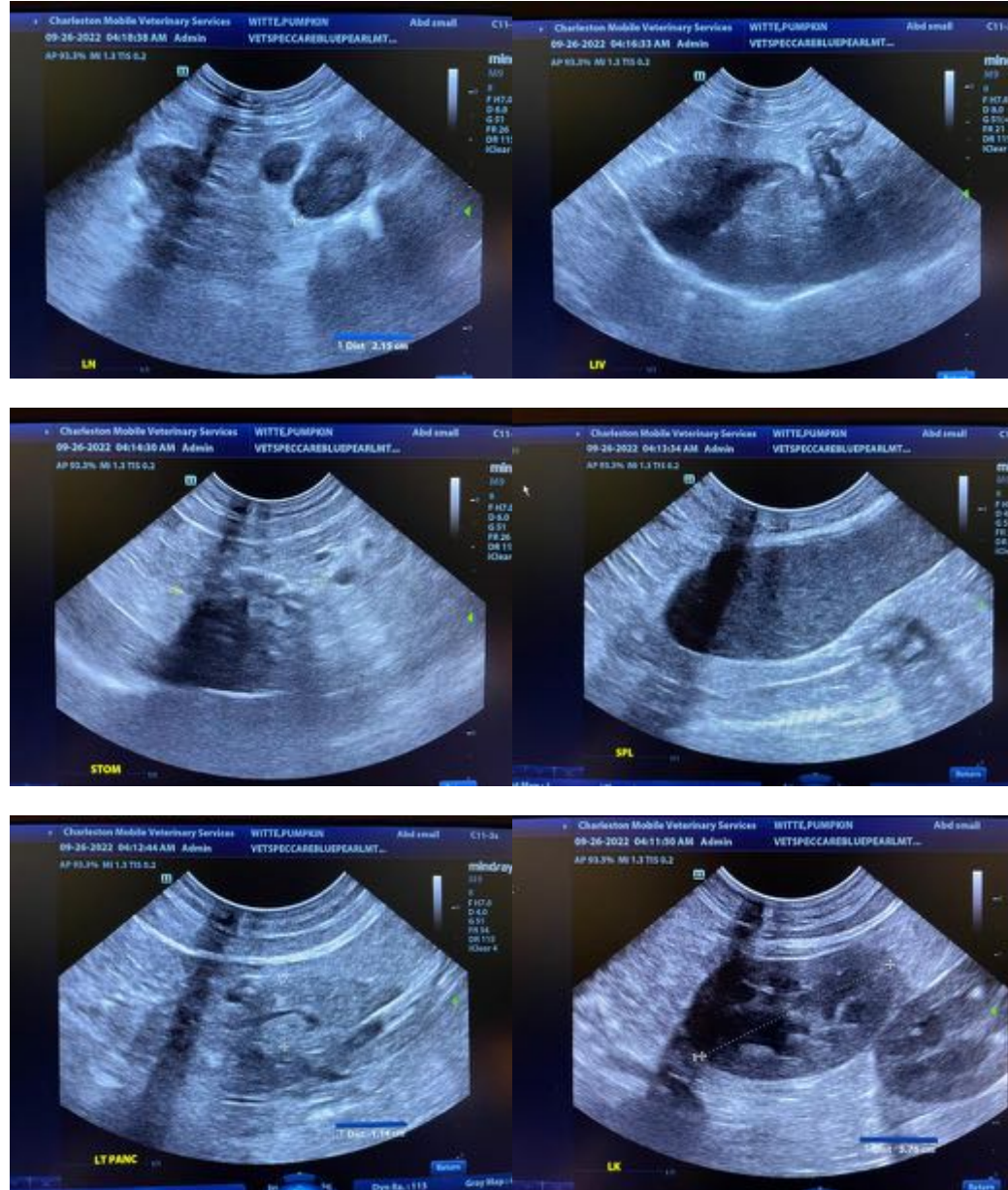
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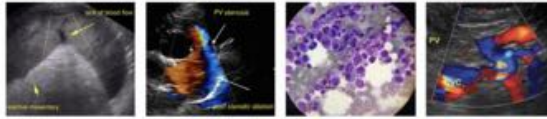
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**PATIENT**

Pumpkin Witte

**SPECIES**

Feline

**BREED**

DSH

**SEX**

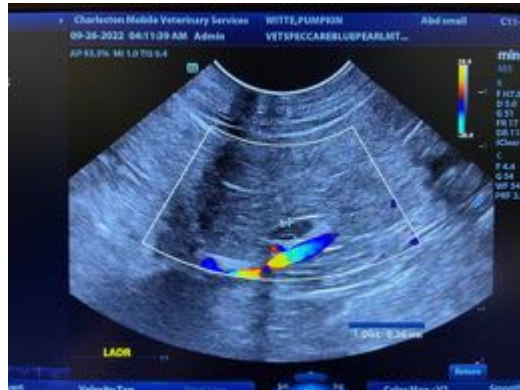
Neutered Male

**AGE**

12 years

**WEIGHT**

6.2 kg



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.

**Andrea Nicastro, DVM, Diplomate DACVIM (Small Animal Internal Medicine)**  
info@SonoPath.com

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ACVIM (Small Animal  
Internal Medicine)

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