



**PATIENT**

Smush Palmer

**SPECIES**

Canine

**BREED**

Boxer Mix

**SEX**

Spayed Female

**AGE**

15 Years

**WEIGHT**

Not Provided

**INTERPRETED BY**

Eric Lindquist, DMV,  
DABVP(CFM), Cert.  
IVUSS

**IMAGING PERFORMED BY**

Rebecca Hamilton

**HOSPITAL NAME**

Animal General on  
Hudson

**REFERRING VET**

Dr. Digiuseppi

**INVOICE**

36810

**DATE**

12/8/25

**PRESENTING CLINICAL SIGNS**

History: V+, D+, inappetant, elevated LES, SQ growths. Meds: Cerenia, Metro  
Abnormal PE/Chem/CBC/UA Results: ALT (176) ALP (327) Elevated BUN, CBC/T4 WNL.

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The **bladder** in this patient was mildly thickened with slight echogenic mural changes. No calculi or masses were noted. Slight micropolyloid changes were noted. This is a frequent finding in older animals and may be linked to a history of chronic urinary tract infection or active urinary tract infection. Urinalysis would be recommended with culture if any evidence of inflammatory sediment is present. The region of the trigone and visible pelvic urethra were normal. Minimal amount of urine was present at the time of the sonogram. The pelvic urethra was imaged 2.0 cm beyond the cystourethral junction.

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some moderate 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 this age patient. Medullary structure differed distinctly from that of the cortex, and no evidence of pelvic dilation was present. The left kidney measured 5.0 cm. The right kidney measured 4.76 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 left adrenal gland measured 2.28 cm x 0.87 cm at the caudal pole and 0.28 cm at the cranial pole. The right adrenal gland measured 2.48 cm x 1.14 cm at the cranial pole and 1.03 cm at the caudal 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 congestion or thrombosis. No sonographic evidence of acute or chronic inflammatory, neoplastic, or infarctual changes were noted.

**Liver**

The **liver** images from right and left intercostal as well as subcostal views revealed subjectively normal liver size, contour, and structure. Some moderate 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. The gallbladder presented some dependent debris with essentially normal contour. The cystic and common bile ducts were normal. No overt evidence of active inflammatory, infiltrative or regenerative pathology was noted but should be paired with current or



**PATIENT**

Smush Palmer

**SPECIES**

Canine

**BREED**

Boxer Mix

**SEX**

Spayed Female

**AGE**

15 Years

**WEIGHT**

Not Provided

**INTERPRETED BY**

Eric Lindquist, DMV,  
DABVP(CFM), Cert.  
IVUSS

**IMAGING PERFORMED BY**

Rebecca Hamilton

**HOSPITAL NAME**

Animal General on  
Hudson

**REFERRING VET**

Dr. Digiuseppi

**INVOICE**

36810

**DATE**

12/8/25

past LE elevations regarding any clinical significance to this presentation. The hepatic lymph nodes were unremarkable.

**Gastrointestinal**

Examination of the **gastrointestinal tract** revealed an unremarkable stomach and small intestine regarding structure. There were minor areas of luminal fluid noted. There was no evidence of obstructive pattern. Curvilinear patterns were retained throughout the gastrointestinal tract. Areas of hyperperistalsis were noted. This is consistent with response to irritation. The colon was unremarkable.

**Pancreas**

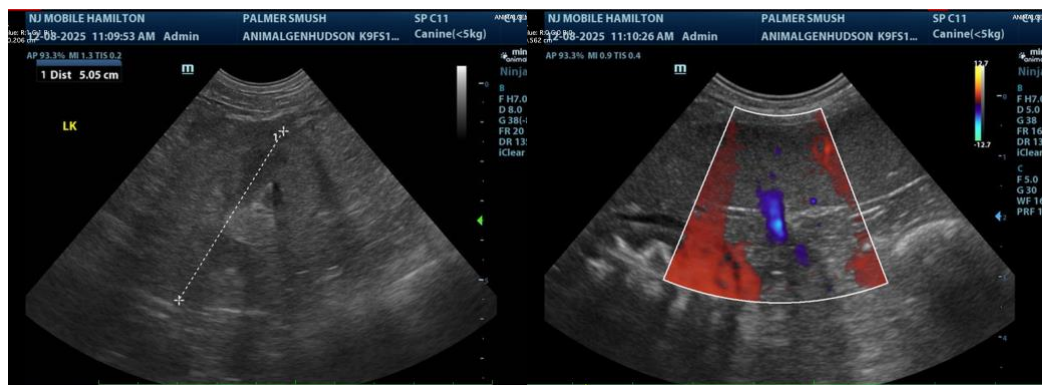
The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Pancreatic duct and capsular contour were acceptably normal and parenchyma respected normal curvilinear patterns. No overt evidence of active inflammatory or neoplastic disease was noted.

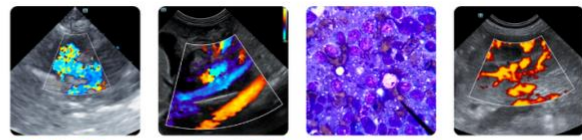
**ULTRASONOGRAPHIC FINDINGS**

- Nonspecific gastroenteritis pattern
- Inflammatory hepatopathy pattern
- Age-related urinary bladder and renal changes

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

The azotemia is likely prerenal in this patient, as the kidneys appear largely unremarkable and geriatric in nature. GI protectant protocol, management for enterotoxins, and parasitic disease is indicated. Dietary indiscretion, food intolerance, structurally insignificant inflammatory bowel or occult parasitism and occult Addison's are all potentials.





**PATIENT**

Smush Palmer

**SPECIES**

Canine

**BREED**

Boxer Mix

**SEX**

Spayed Female

**AGE**

15 Years

**WEIGHT**

Not Provided

**INTERPRETED BY**

Eric Lindquist, DMV,  
 DABVP(CFM), Cert.  
 IVUSS

**IMAGING PERFORMED BY**

Rebecca Hamilton

**HOSPITAL NAME**

Animal General on  
 Hudson

**REFERRING VET**

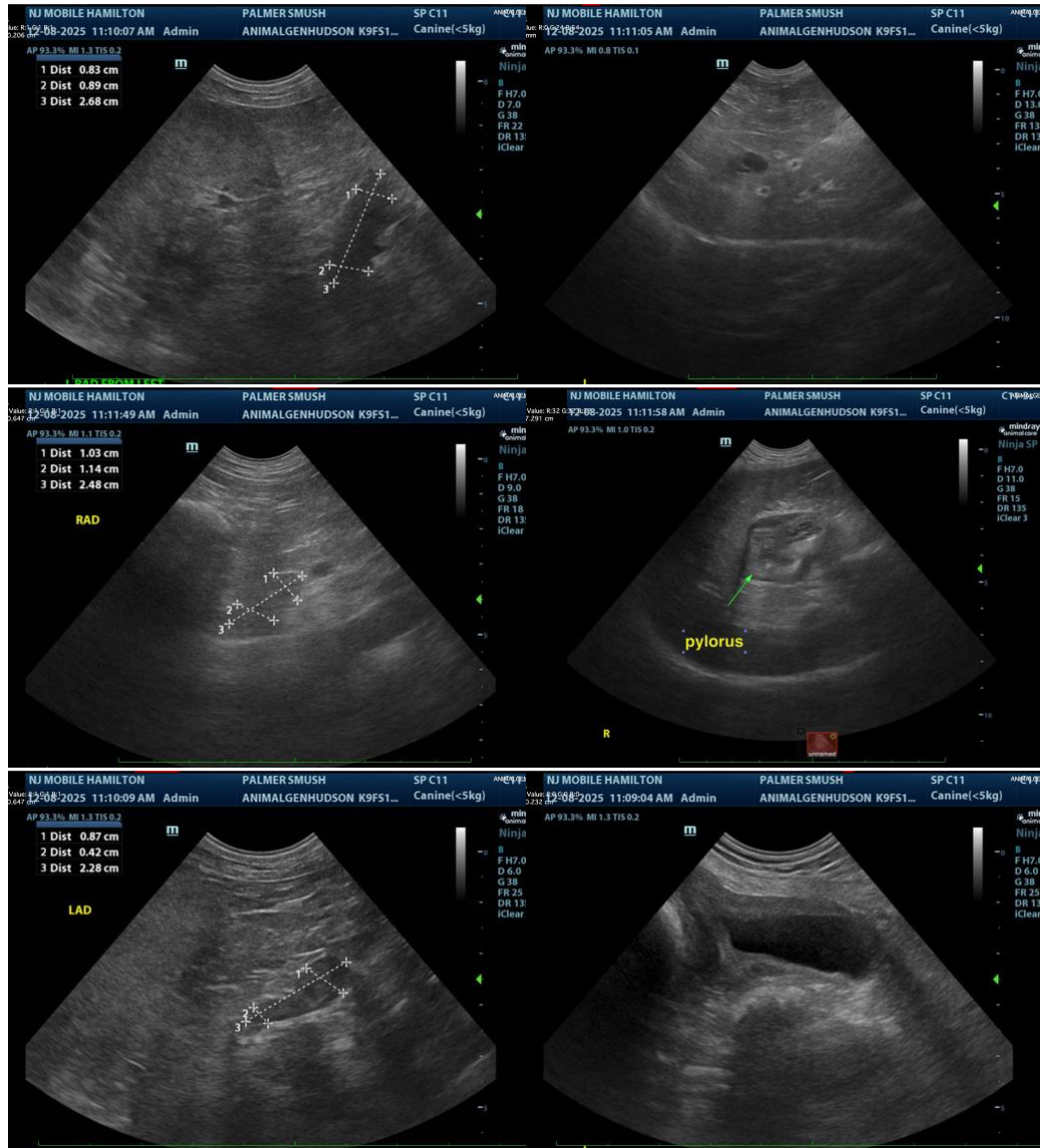
Dr. Digiuseppi

**INVOICE**

36810

**DATE**

12/8/25



**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(CFM), Cert. IVUSS,**  
 CEO, Owner, Founder -- SonoPath.com  
[info@SonoPath.com](mailto:info@SonoPath.com)