



<b>PATIENT</b>	<b>PRESENTING CLINICAL SIGNS</b>
Greta West	History: Patient is in remission from Lymphoma Patient is having increased lipase and Alkp chronically and recently have gone even higher, and patient is having increased hunger and lip smacking Patient is on benazepril for proteinuria We tried sucralfate and omeprazole with no improvement after 2 weeks
<b>SPECIES</b>	
Canine	Abnormal PE/Chem/CBC/UA Results: PE: Very nervous, difficult to assess abdominal pain CBC: WNL CHEM:BUN 28, ALT 135,ALKP 1989, Lipase 3933, CI 149 UA: USG 1.022, neg protein BP: WNL
<b>BREED</b>	<b>ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN</b>
Giant Schnauzer	<b>Urinary System</b>
<b>SEX</b>	The <b>urinary bladder</b> , trigone, and pelvic urethra presented normal thicknesses and normal tone. The ureters were not visible which is normal. No uroliths or sediment were visualized and anechoic urine was present. No evidence of inflammatory or neoplastic changes were noted. Ureteral papillae were normal.
Spayed Female	
<b>AGE</b>	The <b>kidneys</b> revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some mild 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. The left kidney measured 6.7 cm. The right kidney measured 7.0 cm.
10 Years	
<b>WEIGHT</b>	<b>Adrenal Glands</b>
101 Pounds	The <b>right adrenal gland</b> 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 right adrenal gland measured 0.6 cm.
<b>INTERPRETED BY</b>	The <b>left adrenal gland</b> revealed an expansive heterogeneous hyperechoic nodule (1.6 cm x 0.9 cm) in the caudal pole. The left adrenal gland measured 1.3 cm at the caudal pole and the 0.8 cm at the cranial pole 0.8 cm.
Eric Lindquist, DMV DABVP, Cert. IVUSS	
<b>IMAGING PERFORMED BY</b>	<b>Spleen</b>
Griffin	The <b>spleen</b> revealed subtle hypoechoic nodular changes, measuring up to 3.0 cm. Minor uniform swelling was noted in the spleen.
<b>HOSPITAL NAME</b>	<b>Liver</b>
Northside VC	The <b>liver</b> revealed a uniform vacuolar hepatopathy pattern with increased portal markings and uniform swelling. The gallbladder and common bile duct were unremarkable.
<b>REFERRING VET</b>	<b>Gastrointestinal</b>
Griffin	Minor edematous <b>gastric</b> wall was noted with echogenic mucosal remodeling. The small intestine and colon were unremarkable.
<b>INVOICE</b>	<b>Pancreas</b>
16836	
<b>DATE</b>	
8/12/22	



## PATIENT

Greta West

## SPECIES

Canine

## BREED

Giant Schnauzer

## SEX

Spayed Female

## AGE

10 Years

## WEIGHT

101 Pounds

## INTERPRETED BY

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

## IMAGING PERFORMED BY

Griffin

## HOSPITAL NAME

Northside VC

## REFERRING VET

Griffin

## INVOICE

16836

## DATE

8/12/22

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 subxyphoid palpation then low-grade smoldering chronic pancreatitis should be suspected.

## ULTRASONOGRAPHIC FINDINGS

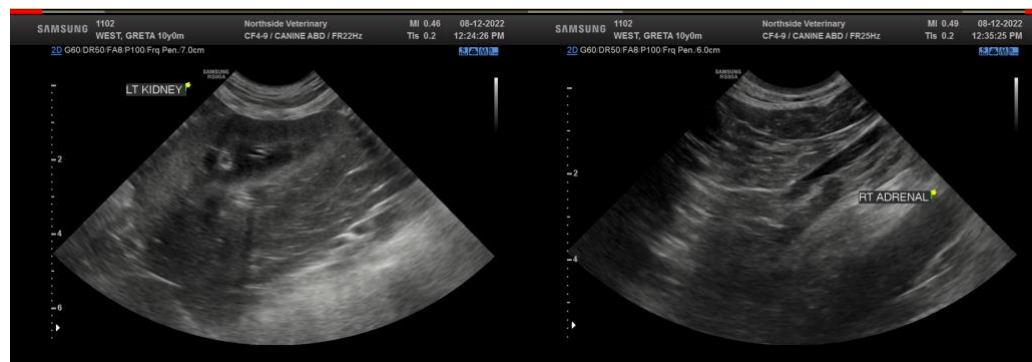
- Left adrenal nodule, likely adenoma
- Subtle micronodular splenic and hepatic changes, may be related to the prior lymphoma diagnosis yet the changes are fairly minor
- Age-related pancreatic changes
- Edematous gastric wall with echogenic mucosal remodeling
- Age-related renal changes

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Given the patient history, GI protectant protocol such as the following is recommended and reassessment of the clinical signs. Subxyphoid palpation is recommended to assess for pain or discomfort associated with the right limb of the pancreas, low grade inflammation may be present. If any weight loss is present, then recheck FNA of the splenic and hepatic nodular changes for escape from remission from the prior diagnosis of lymphoma is recommended. Blood pressure is recommended to assess any hypertension related to the left adrenal gland.

### Helicobacter/Gastritis protocol

A clinical trial of **Zithromax (Dogs: 5-10 mg/kg p.o. q24h. May increase dosing interval to q48h after 3-5 days of treatment), Metronidazole (10-20 mg/kg p.o. b.i.d.), Pepcid (0.5-1 mg/kg s.i.d.) and Sucralfate (0.5-2 g/dog PO) or Omeprazole (1 mg/kg p.o. s.i.d.)** over the next 3 weeks along with a **novel-protein or hydrolyzed diet** with slurry feeding b.i.d./t.i.d. over the next 2-4 days and then increase to canned diet bid. Dry food should be avoided over the next 4 weeks. A recheck sonogram to assess GI improvement or progression would be ideal in 4 weeks.





**PATIENT**

Greta West

**SPECIES**

Canine

**BREED**

Giant Schnauzer

**SEX**

Spayed Female

**AGE**

10 Years

**WEIGHT**

101 Pounds

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Griffin

**HOSPITAL NAME**

Northside VC

**REFERRING VET**

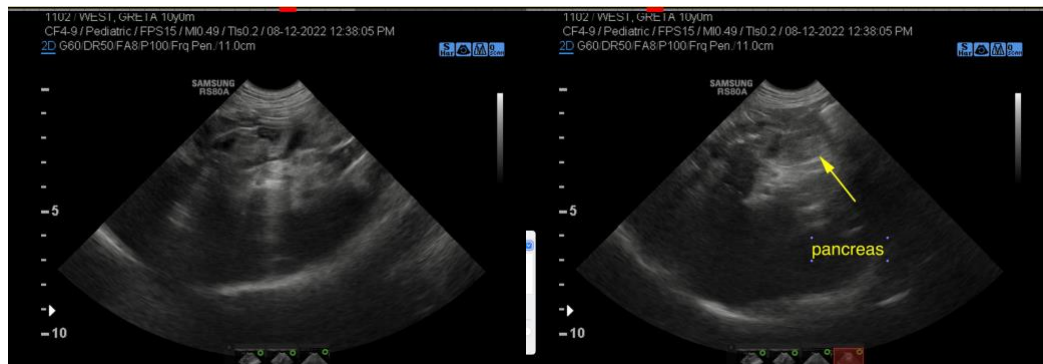
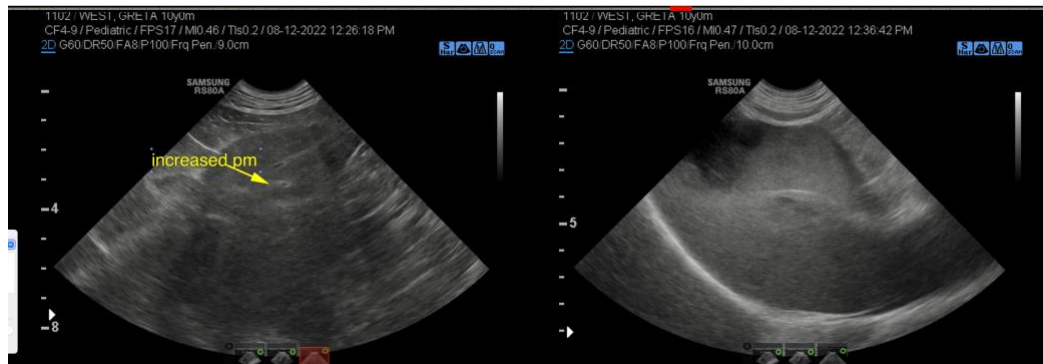
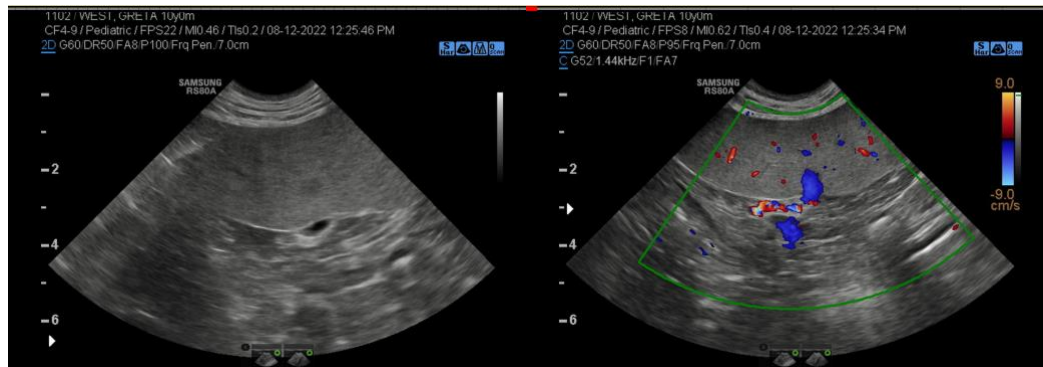
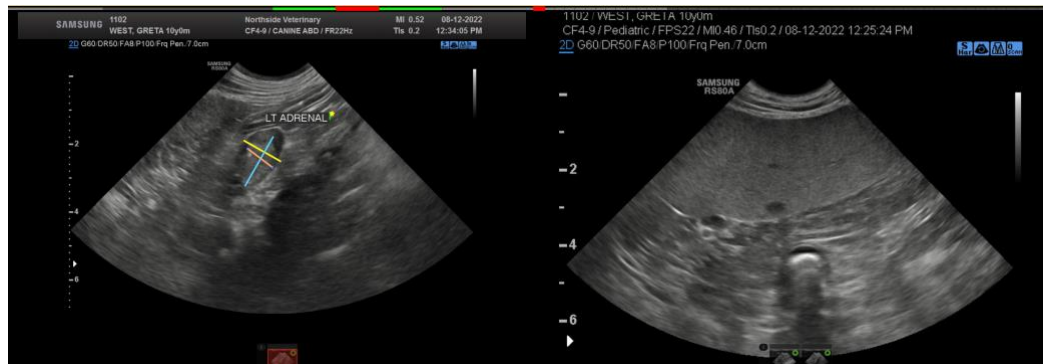
Griffin

**INVOICE**

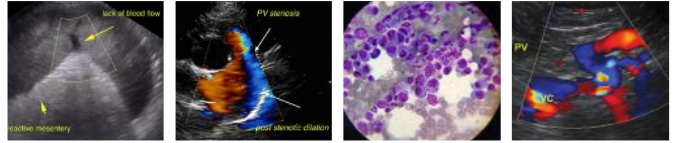
16836

**DATE**

8/12/22



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 visible in the image/video clips provided.



**PATIENT**

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.

Greta West

**SPECIES**

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

Canine

**BREED**

Giant Schnauzer

**SEX**

Spayed Female

**AGE**

10 Years

**WEIGHT**

101 Pounds

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING  
PERFORMED BY**

Griffin

**HOSPITAL NAME**

Northside VC

**REFERRING VET**

Griffin

**INVOICE**

16836

**DATE**

8/12/22