



**PATIENT PRESENTING CLINICAL SIGNS**

**PATIENT**  
Helga Purangi

**SPECIES**  
Feline

**BREED**  
Domestic Shorthair

Helga is a 14 month old FS DSH presenting for chronic intermittent vomiting, abdominal ultrasound for possible indication of chronic small bowel disease (IBD vs. lymphoma) vs. pancreatitis vs. other. Is hacking and throwing up two times per week, eating and drinking normally. Was converted to HP dry and Z/D wet - there has been minimal improvement since this change in 4/2022 - still vomits every few days and there has been an increase in hairballs in her vomit. O is brushing 2-3 times per week. Blood work 3/10/22 - Alb 3.6, Total protein 6.3, Glob 2.7, Crt 1.8, BUN 34, CPK 317, HCT 42, Neut 31 (low), Lymph 65 (high), absolute lymph 9555 (high), USG today 1032, no parasites seen on fecal exam  
Abnormal PE/Chem/CBC/UA Results: Blood work 3/10/22 - Alb 3.6, Total protein 6.3, Glob 2.7, Crt 1.8, BUN 34, CPK 317, HCT 42, Neut 31 (low), Lymph 65 (high), absolute lymph 9555 (high), USG today 1032

**SEX ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**SEX**  
Spayed Female

**AGE**  
14 months

**Urinary System**  
The **urinary bladder**, 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 was noted. Ureteral papillae were normal.

**WEIGHT**  
7.1 lbs

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 right kidney measured 3.13 cm. The left kidney measured 3.05 cm.

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**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 right adrenal gland measured 0.25 cm. The left adrenal gland measured 0.22 cm.

**IMAGING PERFORMED BY**

Dr. Schanche

**HOSPITAL NAME**

TotalBond VH

**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 was noted.

**REFERRING VET**

Dr. Schanche

**INVOICE**

31051

**Liver**

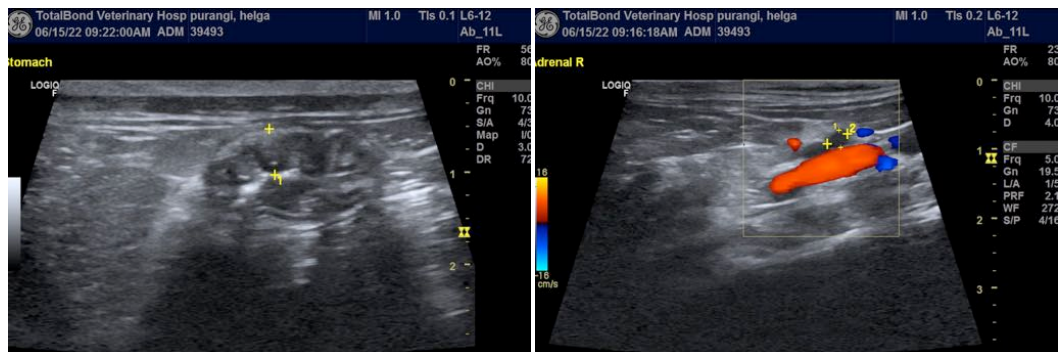
The **liver** images submitted revealed subjectively normal liver size, contour, and structure. Parenchymal echogenicity was naturally coarse and hypoechoic to the spleen. Vascular and biliary tracts were of normal volume with no evidence of congestion. The gallbladder presented acceptably thin walls with

**DATE**

6/15/22



<b>PATIENT</b>	primarily anechoic content. The cystic and common bile ducts were normal. No pathological hepatic lymphadenopathy was evident. No overt structural evidence of inflammatory, infiltrative or regenerative pathology was evident.
Helga Purangi	
<b>SPECIES</b>	<b>Gastrointestinal</b>
Feline	Examination of the <b>gastrointestinal tract</b> 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. Slight epigastric lymph node enlargement was noted at 0.5 cm.
<b>BREED</b>	
Domestic Shorthair	
<b>SEX</b>	<b>Pancreas</b>
Spayed Female	The base and limbs of the <b>pancreas</b> 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.
<b>AGE</b>	
14 months	<b>Free Abdomen</b>
<b>WEIGHT</b>	A trace amount of free fluid was noted in the portal hilus. The exact source is unclear.
7.1 lbs	
<b>INTERPRETED BY</b>	<b>ULTRASONOGRAPHIC FINDINGS</b>
Eric Lindquist, DMV DABVP, Cert. IVUSS	Unremarkable abdomen, likely inflammatory bowel or occult parasitism. Structurally insignificant liver.
<b>IMAGING PERFORMED BY</b>	<b>INTERPRETATION OF THE FINDINGS &amp; FURTHER RECOMMENDATIONS</b>
Dr. Schanche	There was no evidence of significant disease. I recommend hydrolyzed diet. If the clinical signs persist a recheck sonogram is recommended in 2 weeks. CBC path review +/- PCR may be appropriate in this case even though there is no structural evidence of lymphoma is present.
<b>HOSPITAL NAME</b>	
TotalBond VH	
<b>REFERRING VET</b>	
Dr. Schanche	
<b>INVOICE</b>	
31051	
<b>DATE</b>	
6/15/22	





**PATIENT**

Helga Purangi

**SPECIES**

Feline

**BREED**

Domestic Shorthair

**SEX**

Spayed Female

**AGE**

14 months

**WEIGHT**

7.1 lbs

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Schanche

**HOSPITAL NAME**

TotalBond VH

**REFERRING VET**

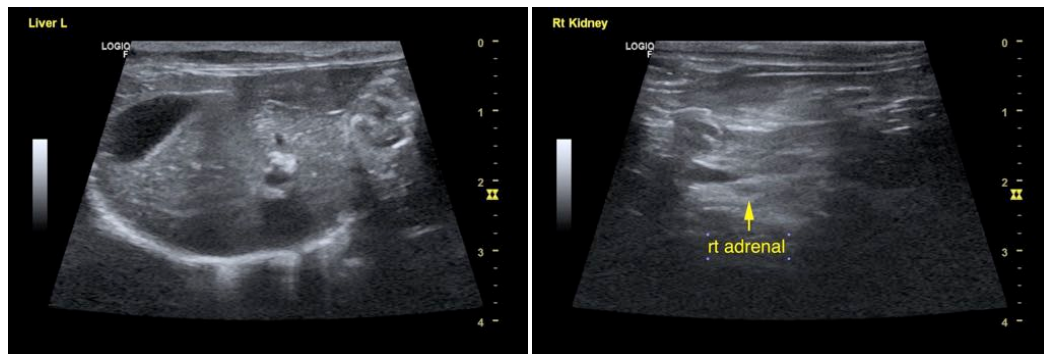
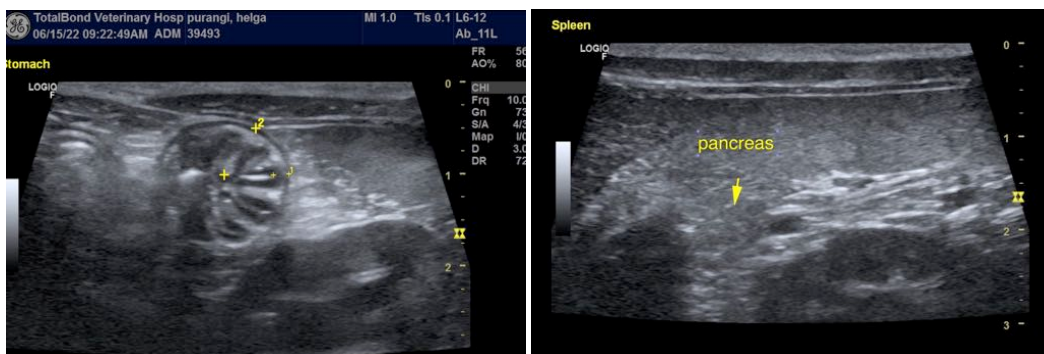
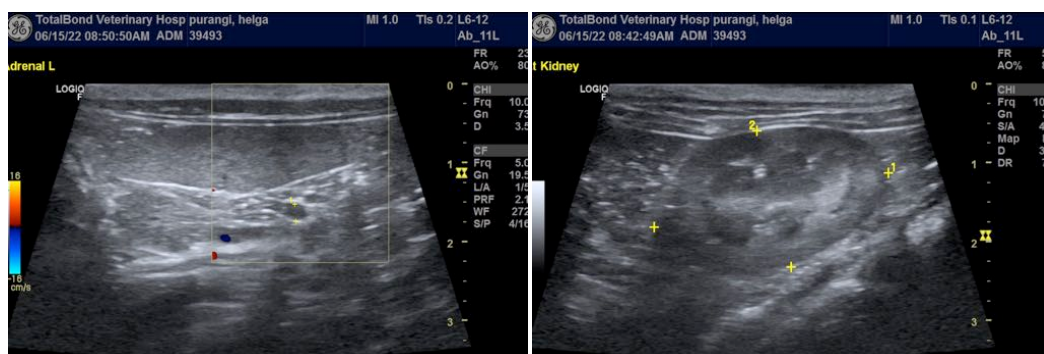
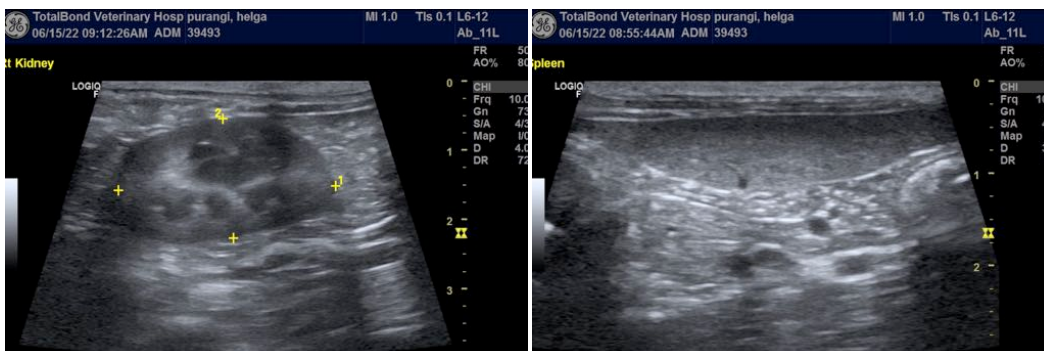
Dr. Schanche

**INVOICE**

31051

**DATE**

6/15/22





**PATIENT**

Helga Purangi

**SPECIES**

Feline

**BREED**

Domestic Shorthair

**SEX**

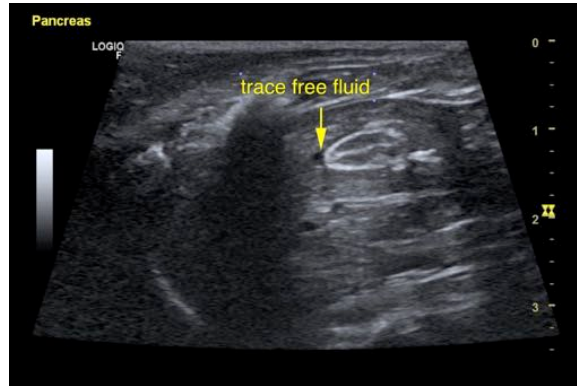
Spayed Female

**AGE**

14 months

**WEIGHT**

7.1 lbs



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

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Schanche

**HOSPITAL NAME**

TotalBond VH

**REFERRING VET**

Dr. Schanche

**INVOICE**

31051

**DATE**

6/15/22