



<b>PATIENT</b>	<b>PRESENTING CLINICAL SIGNS</b>
Munkey Whitehead	History: ddx hepatobiliary disease, mod hepatomegaly on rads, Lepto Ab Elisa negative but no vax history. Methocarbamol, metronidazole, clavaseptin, zentoniil, Vit E and Gabapentin.
<b>SPECIES</b>	Abnormal PE/Chem/CBC/UA Results: mild reticulocytosis, mildly elevated MPV and PCT, mild hypophosphatemia, mildly elevated TP and albumin, elevated ALT and ALP, t. Bilirubin and cholesterol. U/A and UPCR pending. Ca Oxalate dihydrate crystals greater than 50/hpf. Sp. Grav 1.031
Canine	
<b>BREED</b>	<b>ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN</b>
	<b>Urinary System</b>
Brussels Griffon X	The <b>urinary bladder</b> revealed a grouping of calculi, non-obstructive, the largest of which measured 5.0 mm.
<b>SEX</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 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. Mild mineralization was present in both kidneys. The left kidney measured 4.0 cm. The right kidney measured 4.15 cm.
Neutered Male	
<b>AGE</b>	
10 Years	
<b>WEIGHT</b>	<b>Adrenal Glands</b>
9.8 Pounds	Both <b>adrenal glands</b> 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 1.67 cm x 1.1 cm at the cranial pole and 0.62 cm at the caudal pole. The left adrenal gland measured 1.47 cm x 0.37 cm at the caudal pole and 0.38 cm at the cranial pole.
<b>INTERPRETED BY</b>	<b>Spleen</b>
Eric Lindquist, DMV DABVP, Cert. IVUSS	The <b>spleen</b> 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.
<b>IMAGING PERFORMED BY</b>	<b>Liver</b>
Crystal Hill	The <b>liver</b> images from right and left intercostal as well as subcostal views revealed subjectively normal liver size, contour, and structure. Some minor 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 past LE elevations regarding any clinical significance to this presentation. The hepatic lymph nodes were unremarkable.
<b>HOSPITAL NAME</b>	
Hartzel AH	
<b>REFERRING VET</b>	<b>Gastrointestinal</b>
Dr. Morris	Some retention of ingesta was noted in the <b>stomach</b> . The GI tract was unremarkable otherwise.
<b>INVOICE</b>	
13997	
<b>DATE</b>	
2/19/22	



**PATIENT**

**Pancreas**

Munkey Whitehead

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**

**BREED**

Brussels Griffon X

- Bladder calculi
- Mild to moderate degenerative renal changes with minor, non-obstructive renal calculi
- Age-related hepatic changes
- Stomach ingesta

**SEX**

Neutered Male

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Structurally, the liver appears unremarkable. Leptospirosis titers and investigation of other causes of acute insult should be considered. FNA of the liver could be considered for further definition. No evidence of suspicion of neoplasia. Eventual cystotomy warranted given the bladder calculi.

**AGE**

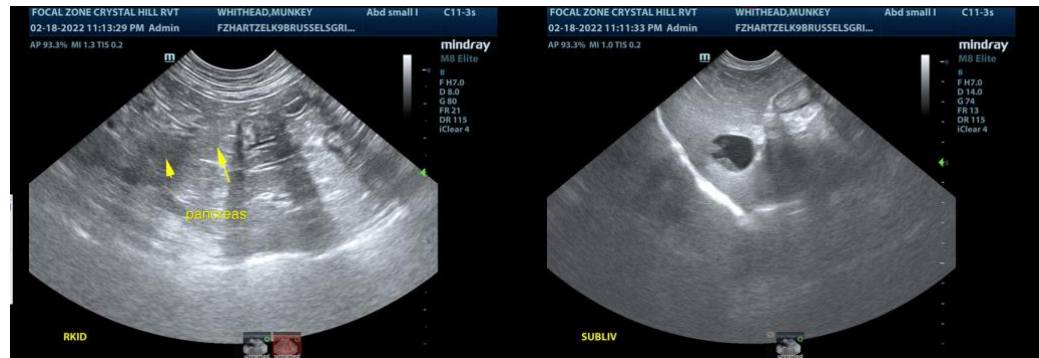
10 Years

**WEIGHT**

9.8 Pounds

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

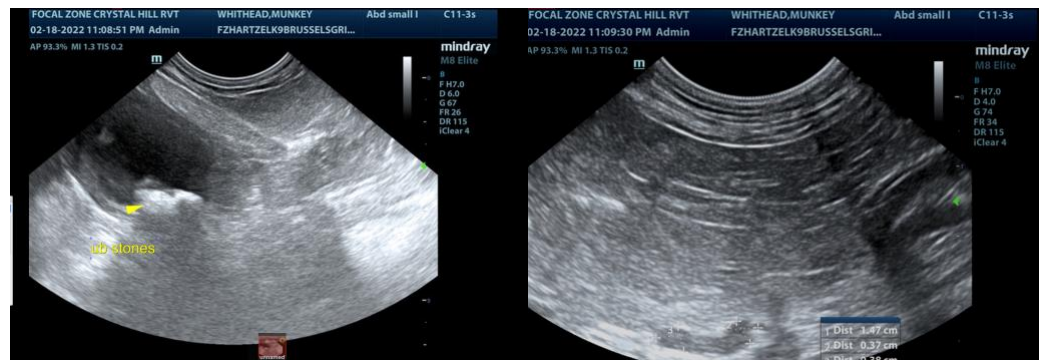


**IMAGING PERFORMED BY**

Crystal Hill

**HOSPITAL NAME**

Hartzel AH



**REFERRING VET**

Dr. Morris

**INVOICE**

13997

**DATE**

2/19/22



**PATIENT**

Monkey Whitehead

**SPECIES**

Canine

**BREED**

Brussels Griffon X

**SEX**

Neutered Male

**AGE**

10 Years

**WEIGHT**

9.8 Pounds

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING  
PERFORMED BY**

Crystal Hill

**HOSPITAL NAME**

Hartzel AH

**REFERRING VET**

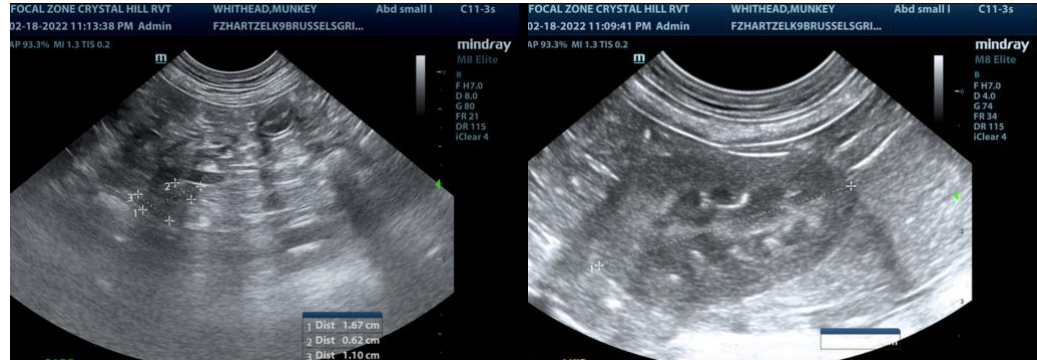
Dr. Morris

**INVOICE**

13997

**DATE**

2/19/22



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.

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  
Eric.Lindquist@SonoPath.com