

**PATIENT PRESENTING CLINICAL SIGNS**

Simba Hein History: Obese, not fasted elevated ALT done at another clinic

**SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

Mustelid **Urinary System**

**BREED** 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.

**SEX**

Neutered Male 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. Slight pinpoint mineralization was noted in the kidneys. The left kidney measured 2.96 cm. The right kidney measured 2.52 cm.

**AGE**

2020

**Adrenal Glands**

**WEIGHT**

3.2 lbs

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 0.37 cm. The left adrenal gland measured 0.33 cm.

**INTERPRETED BY**

Eric Lindquist, DMV  
 DABVP, Cert. IVUSS

**Spleen**

**IMAGING PERFORMED BY**

Rebekah Jakum, CVT  
 ARDMS/RVT

The **spleen** was mildly swollen and irregular. Trace fluid was noted adjacent to the spleen. This is likely reactive spleen.

**Liver**

**HOSPITAL NAME**

Simmonds VH

The **liver** was mildly hyperechoic to the falciform fat and was uniform in size and contour. The hepatic veins were mildly dilated in this patient. If the patient was under sedation this may be normal. The gallbladder presented acceptably thin walls with 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.

**REFERRING VET**

Dr. Cougar

**Gastrointestinal**

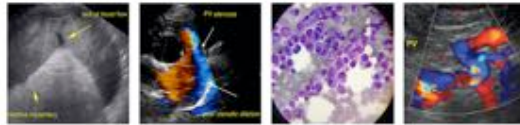
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Examination of the **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. Small and large intestine demonstrated normal luminal chyme and stool consistency respectively. Slightly reactive mesenteric lymph nodes were noted.

**DATE**

3/24/22



**PATIENT** *Pancreas*

Simba Hein 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**

Mustelid

**Free Abdomen**

**BREED**

A large amount of abdominal fat was noted.

Ferret

**ULTRASONOGRAPHIC FINDINGS**

**SEX**

Structurally unremarkable liver. Dilated hepatic veins, this would be normal if the patient was under sedation.

Neutered Male

Slight renal cyst with slight mineralization.

**AGE**

Minor splenic enlargement.

2020

Slight reactive mesenteric lymph nodes.

**WEIGHT**

3.2 lbs

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

FNA of the liver could be considered for further definition of inflammatory cell type. If the patient was not sedated then an echocardiogram and chest radiographs are recommended to assess for causes of passive congestion.

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUS

**IMAGING PERFORMED BY**

Rebekah Jakum, CVT  
ARDMS/RVT

**HOSPITAL NAME**

Simmonds VH

**REFERRING VET**

Dr. Cougar

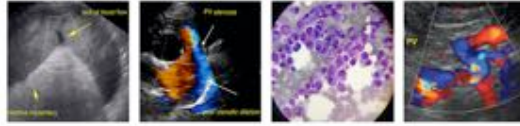
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**PATIENT**

Simba Hein

**SPECIES**

Mustelid

**BREED**

Ferret

**SEX**

Neutered Male

**AGE**

2020

**WEIGHT**

3.2 lbs

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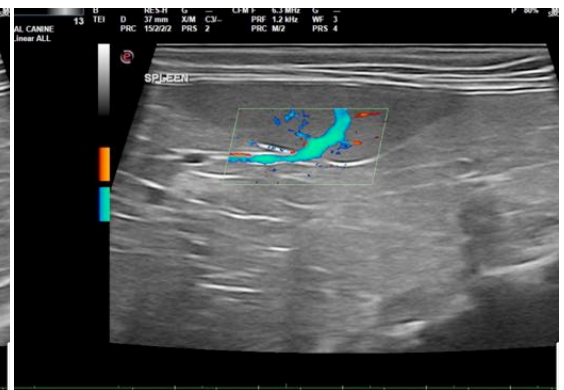
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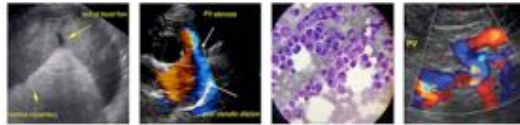
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**PATIENT**

Simba Hein

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.

**SPECIES**

Mustelid

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.

**BREED**

Ferret

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

**SEX**

Neutered Male

**AGE**

2020

**WEIGHT**

3.2 lbs

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