



PATIENT	PRESENTING CLINICAL SIGNS
Chub Chub Richarz	Chub Chub presented 6/20/2022 for evaluation of L hind limb lameness. Radiographs were taken; no fractures or displacement, soft tissue swelling only. Whole body radiograph interpretation as below. Meloxicam sent home. Over the next two days P declined rapidly, with hypothermia, ptialism, anorexia, severe dehydration, obtunded. See additional radiographs. Some improvement in attitude, however not remarkable.
SPECIES	
Ferret	Abnormal PE/Chem/CBC/UA Results: band neutrophils. Full labwork found in radiograph summary. Current Medications Clavamox 25 mg/kg PO BID Enrofloxacin 10 mg/kg PO BID started today Sucralfate 25 mg/kg PO TID Famotidine 0.25 mg/kg PO q 24 hours. IV LRS now reduced to 0.25 mL/hour Carnivore care Emeraid q 4 hours Radiographic Findings Radiographic Findings 6 images are evaluated. General skeletal opacity is normal. There is a subtle soft tissue enlargement extending from the distal tibia to the distal phalangeal region of the central digits in the left pelvic extremity. Underlying bone destruction is not seen. The popliteal lymph nodes do not appear enlarged. The hip joints appear unremarkable. The pelvis is intact. The knees are within normal limits. Tarsal bone malalignment or destruction is not identified. The spine and sub lumbar soft tissues are unremarkable. There is prominent deposition of sub lumbar fat . The spleen is normally enlarged in this species however it has a slightly rounded dorsal border on the lateral view. Subjectively the kidneys are slightly increased in size. The urinary bladder is unremarkable. The remainder of the abdominal organs are unremarkable. The cardiac silhouette and cranial mediastinum are unremarkable. There is a mild increased unstructured interstitial lung pattern. Conclusion Left pelvic extremity soft tissue enlargement without bony involvement. Clinical evaluation for tarsal instability is recommended but fractures are not seen. Described rounding of the spleen and prominent kidney size may be incidental but if signs persist recommend ultrasound to rule out disseminated neoplasia. Sam Silverman, DVM, PhD, DACVR 06/18/2022 8:51:28am Radiology Report powered by Remedy View Report Radiographic Findings 6 images are evaluated and compared to the exam of 6/1/2022. The tympanic cavities are very slightly increased in opacity. The cervical soft tissues appear slightly increased in size, this may be normal for the patient but evaluation for soft tissue enlargement is suggested. The changes are most pronounced dorsally. Crvical intervertebral spaces are maintained. The C-T intervertebral space is narrow. Lumbar intervertebral spaces are incompletely seen. There is progressive increased thoracic opacity, in large part due to increased an increased nonstructured interstitial lung pattern. Pronounced lung consolidation is present in the region of the accessory lung lobe. The cardiac silhouette is slightly smaller today, it is under sized. Positioning differences may be a factor but the cranial mediastinum appears slightly wider today on the frontal view. There is a progressive loss of cranial and mid abdominal serosal detail today. The spleen has not enlarged in the interval between examinations but its borders are slightly rounded caudally on the lateral view. No significant interval change is identified as compared to the previous examination regarding liver or urinary tract. The digestive tract is under filled. The intestines are localized in the right abdomen. Conclusion Progressive lung disease. Interstitial pneumonia (viral?), hemorrhage, and edema (most likely not cardiac in origin) should be considered. Endocarditis cannot be excluded. Mediastinal changes may be incidental but mediastinal edema etc may be present. The volume of abdominal fluid is not great but ultrasound is suggested to confirm its presence and to assist in aspiration for laboratory evaluation. Ultrasound is also suggested to further evaluate the spleen and possible to obtain an aspirate for evaluation. Diffuse disease may be present in the spleen. Middle ear changes are mild but low grade otitis media may be present. Clinical evaluation for cervical soft tissue edema is suggested. Sam Silverman, DVM, PhD, DACVR 06/21/2022 6:47:7am
BREED	
SEX	
Neutered male	
AGE	
3 years	
WEIGHT	
1 kg	
INTERPRETED BY	
Eric Lindquist, DMV, DABVP, Cert. IVUSS	
IMAGING PERFORMED BY	
Sara Hansen	
HOSPITAL NAME	
West Hills AH	
REFERRING VET	
Vickstrom	
DATE	
6/22/22	
Invoice	
31193	



PATIENT **ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

Chub Chub Richarz

Urinary System

SPECIES

Ferret

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.

BREED

The **kidneys** revealed some loss of corticomedullary definition. Polycystic cortical changes were noted in both kidneys. A cortical infarct was noted in the caudal pole of the right kidney. An anechoic cyst measuring 0.3 cm was noted in the right kidney. The right kidney measured 3.31 cm.

SEX

Neutered male

Adrenal Glands

AGE

3 years

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 0.33 cm.

WEIGHT

1 kg

Spleen

INTERPRETED BY

Eric Lindquist, DMV,
DABVP, Cert. IVUSS

The **spleen** was mildly enlarged with uniform, but subtly micronodular parenchyma, and undulating capsular contour. This is consistent with reactive spleen owing to immune stimulus or early infiltrative disease such as mast cell disease or lymphoma. 25-gauge FNA would be ideal if weight loss is an issue to differentiate early round cell neoplasia versus splenitis or reactive spleen all of which can present in this manner. The spleen measured 0.9 cm.

**IMAGING
PERFORMED BY**

Sara Hansen

Liver

HOSPITAL NAME

West Hills AH

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 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.

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Vickstrom

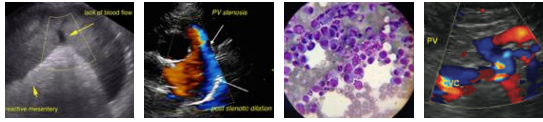
Gastrointestinal

DATE

6/22/22

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. Minor mesenteric lymph nodes were enlarged. The epigastric lymph nodes were slightly enlarged and reactive.

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PATIENT

Pancreas

Chub Chub Richarz

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

Ferret

ULTRASONOGRAPHIC FINDINGS

BREED

Minor hypersplenism. Common finding in ferrets.

Polycystic renal changes.

SEX

Neutered male

Slight mesenteric lymphadenopathy.

AGE

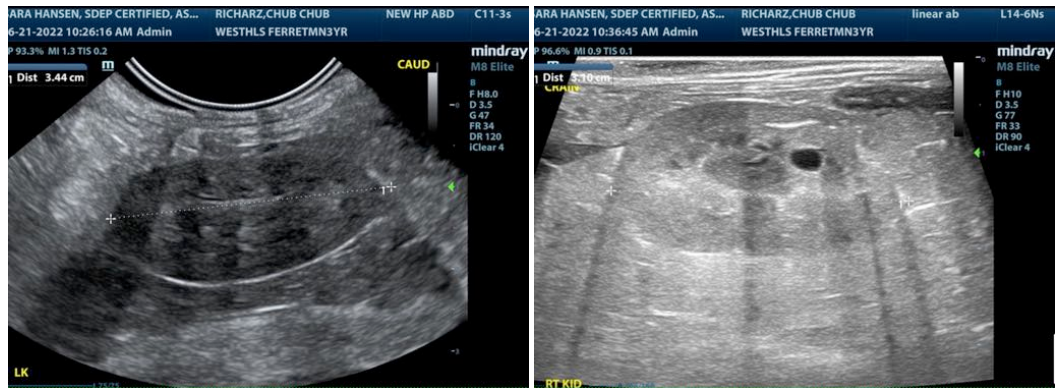
3 years

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

There was no overt evidence of neoplasia; however, 25-gauge FNA of the spleen would be ideal to ensure that an obvious round cell neoplasia is not an issue.

WEIGHT

1 kg

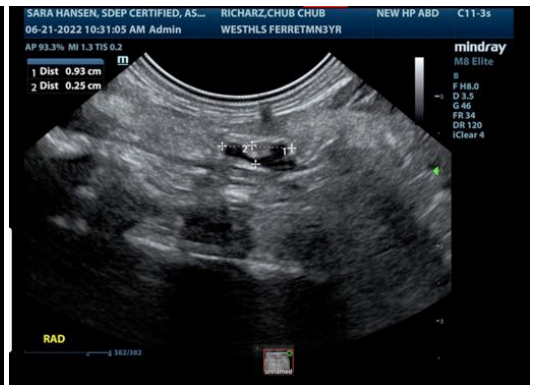
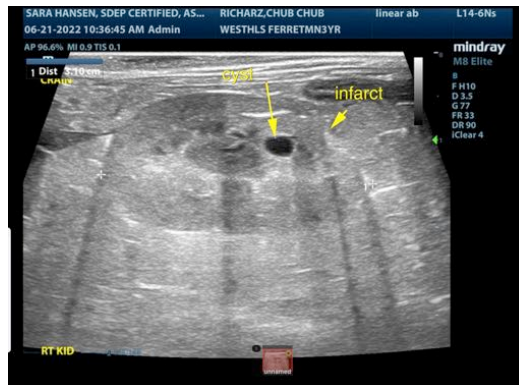


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Chub Chub Richarz

SPECIES

Ferret

BREED

SEX

Neutered male

AGE

3 years

WEIGHT

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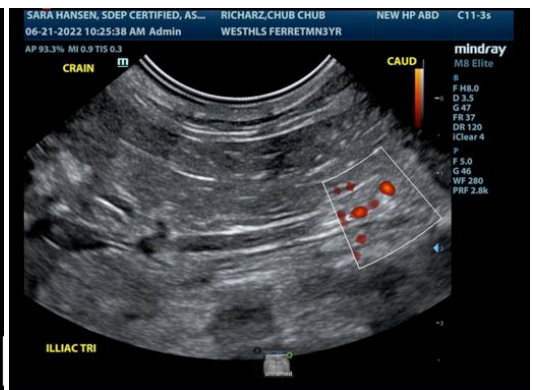
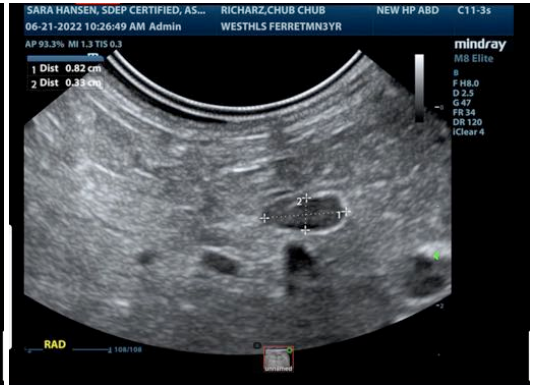
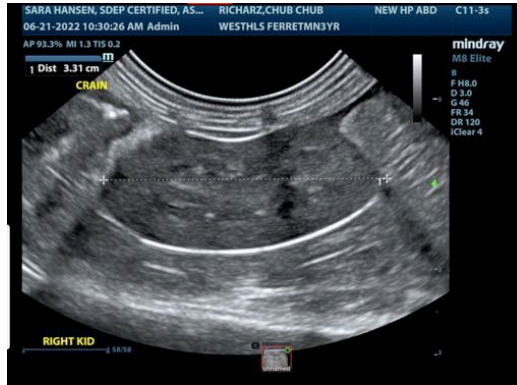
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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



PATIENT

Eric.Lindquist@SonoPath.com

Chub Chub Richarz

SPECIES

Ferret

BREED

SEX

Neutered male

AGE

3 years

WEIGHT

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