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Clinical Sonography & Telecytology
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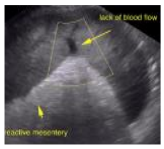

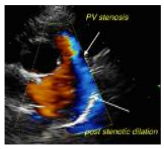

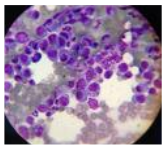
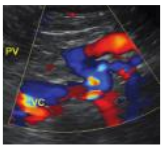

SonoPath.com
1-800-838-4268 info@sonopath.com

PATIENT

Harlee Timmins

SPECIES

Ferret

BREED

Ferret

SEX

Spayed Female

AGE

2 Years

WEIGHT

1.94 kg

INTERPRETED BY

Eric Lindquist, DMV

DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Donna Markland, DVM

HOSPITAL NAME

Island Mobile Paws VS

REFERRING VET

Island Animal Hospital

INVOICE

37519

DATE

5/8/22

PRESENTING CLINICAL SIGNS

Obese. Eats no more than other ferrets. Opacity in chest noted on survey rads as well as excessive abdominal fat (rads are attached). PE unremarkable other than obesity. Relative eosinophilia, hyperglycemia, and hypoglobulinemia noted.
Abnormal PE/Chem/CBC/UA Results: 5/3/2022: Globulin - 16 (29-49) (albumin is normal at 32 with RR=24-45) Glucose=9.1 (4.4-6.7) WBC=9.5 (2.5-8) 6% eosinophils (0-1) absolute= 0.57 with no RR provided

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The **urinary bladder** presented a minimal amount of urine at the time of the sonogram, structurally unremarkable.

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 left kidney measured 2.47 cm. The right kidney measured 3.0 cm.

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 0.29 cm. The left adrenal gland measured 0.25 cm.

Spleen

The **spleen** was mildly enlarged, consistent with hypersplenism. Folded upon itself caudally. No evidence of free fluid or masses. The spleen measured 1.0 cm in width.

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 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.

Gastrointestinal

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. No obstructive or overt infiltrative disease was noted. Reactive mesenteric lymph node noted, common for the species, measuring 1.0 cm x 0.5 cm. Other smaller lymph nodes also mildly enlarged.

Pancreas

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.

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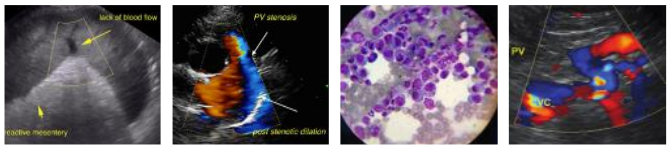

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Other

Large amount of abdominal fat noted.

Rapid view of the heart revealed no evident pathology. Normal volume, size, contractility, and structure. A large amount of thoracic fat was present in the extracardiac space.

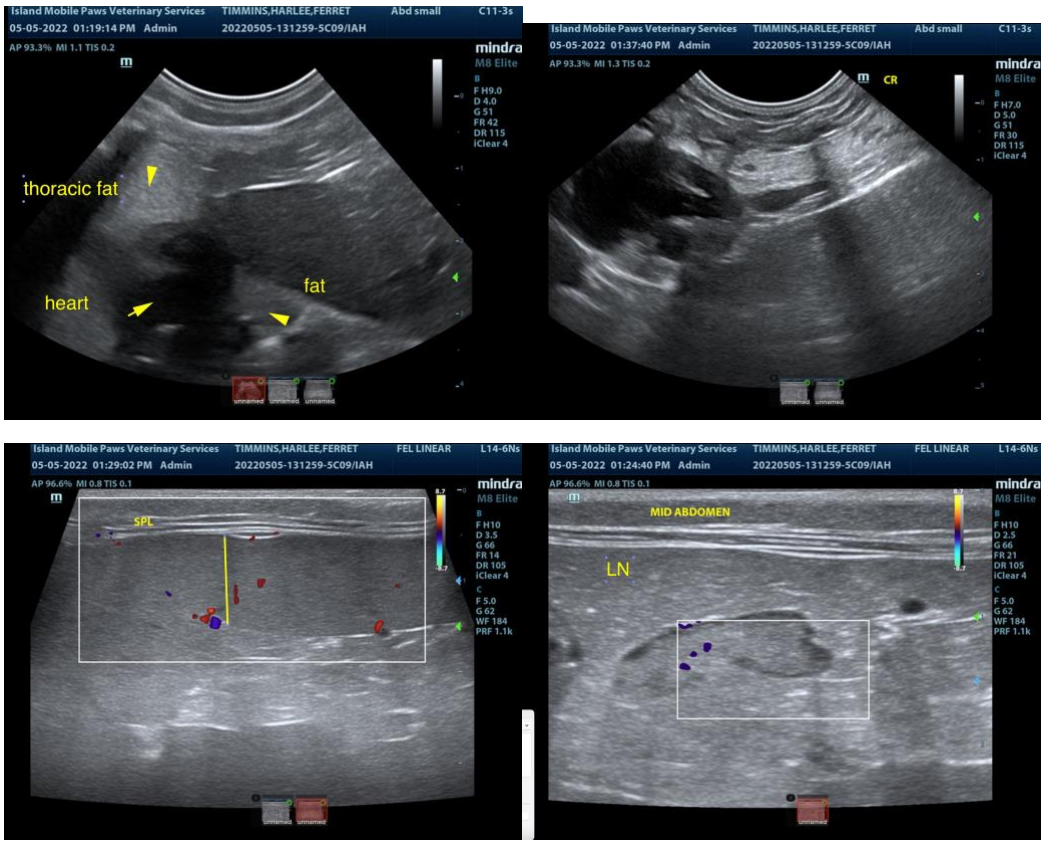
ULTRASONOGRAPHIC FINDINGS

- Minor hypersplenism – common for the species.
- Variable reactive lymphadenopathy
- Excessive thoracic fat

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

A focal pathological density was not evident. However, thoracic fat accumulated groupings measured up to 1.5 cm, which would match the thoracic findings. Weight loss protocol recommended in this patient. If any anorexia or clinical signs are present, then 25-gauge FNA of the spleen indicated. The globoid heart is likely owing to excessive pulmonic pressures working against the thoracic gradient, causing minor right-sided enlargement. Fat overlay upon the heart will create the appearance of cardiomegaly, yet no evidence of functional disease present.

Radiographs: Sternal density, splenomegaly, globoid heart.



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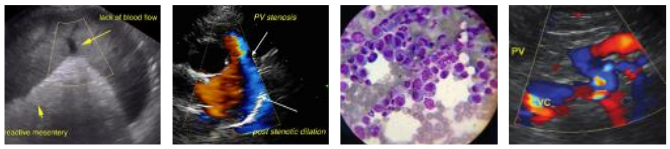

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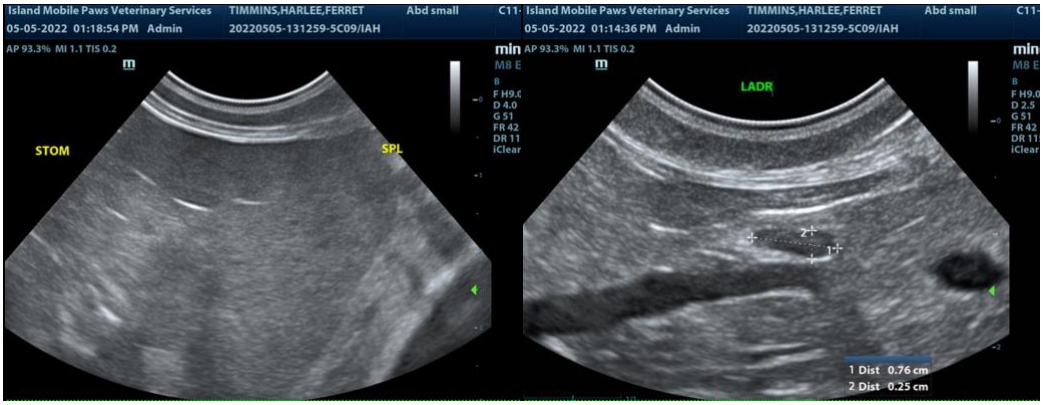

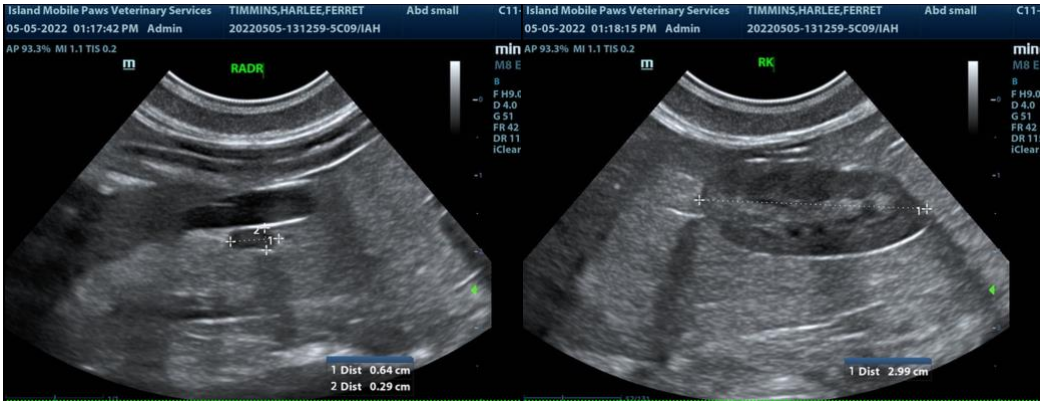

The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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

info@SonoPath.com