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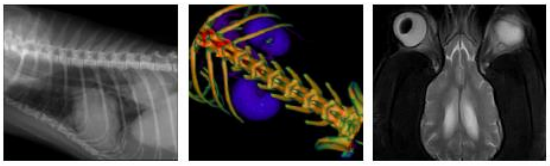

PATIENT

Sienna Lee

SPECIES

Feline

BREED

Siberian

SEX

FS

AGE

8 Years

INTERPRETED BY

Nele Eley, DVM
Dr. med. Vet. DipECVDI

HOSPITAL NAME

Animal Health Partners

REFERRING VET

Dr. Greg Kilburn

INVOICE

53977

DATE

9-6-22

PRESENTING CLINICAL SIGNS

Has been diabeteic since 2021. Never hypoglycemic. Has been inappetant/anorectic for a week. Then developed acute neurological deficits
Abnormal PE/Chem/CBC/UA Results: NH3 - Normal CBC/chem - mild hyperglycemia
Neurological exam abnormalities: Dull mentation Absent menace response and absent palpebral reflexes OU. Anisocoria (R

MAGNETIC RESONANCE IMAGING STUDY OF THE BRAIN

T2, T2-star, diffusion weighted, ADC, plain and post contrast, FLAIR, and T1-weighted images available for review.

MAGNETIC RESONANCE IMAGING FINDINGS

The MRI study reveals diffuse periventricular white matter hyperintensity with significant volume loss of the white matter peripheral to both lateral ventricles of the brain. The cortical grey matter appears to be unaffected. Mild generalized widening of the csf spaces accentuating the cerebral sulci and gyri is seen. No evidence of pathologic contrast enhancement is noted.

Fluid intense material and mucosal swelling are seen within the left frontal sinus.

The C2/3 intervertebral disc presents minimal protrusion with no significant spinal cord compression.

MAGNETIC RESONANCE IMAGING DIAGNOSIS

- Diffuse bilaterally symmetric periventricular white matter hyperintensity with generalized white matter atrophy.
- Left frontal sinusitis.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The MRI study reveals diffuse bilaterally symmetric periventricular white matter hyperintensity suggestive for leukoaraiosis. Similar findings have been described in people with diabetogenic encephalopathy and are typically associated with chronic microangiopathy within the affected white matter. Potential underlying causes next to diabetogenic encephalopathy include dementia, demyelinating disease, virus encephalopathy, which has been described with various viral agents including covid and borna virus in various species. Thiamin deficiency or other nutritional or metabolic disease cannot be ruled out entirely but is thought by far less likely. The same applies to neurodegenerative disease which would be unusual in onset at this patient's age.

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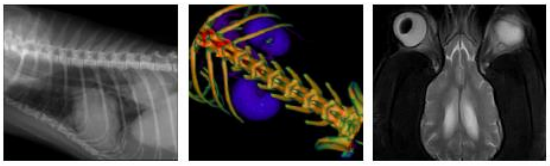

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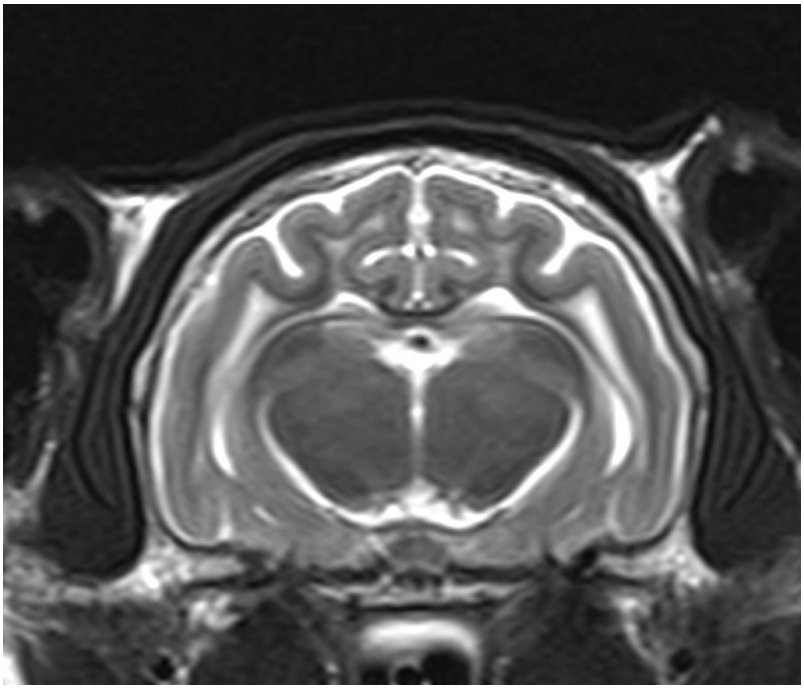

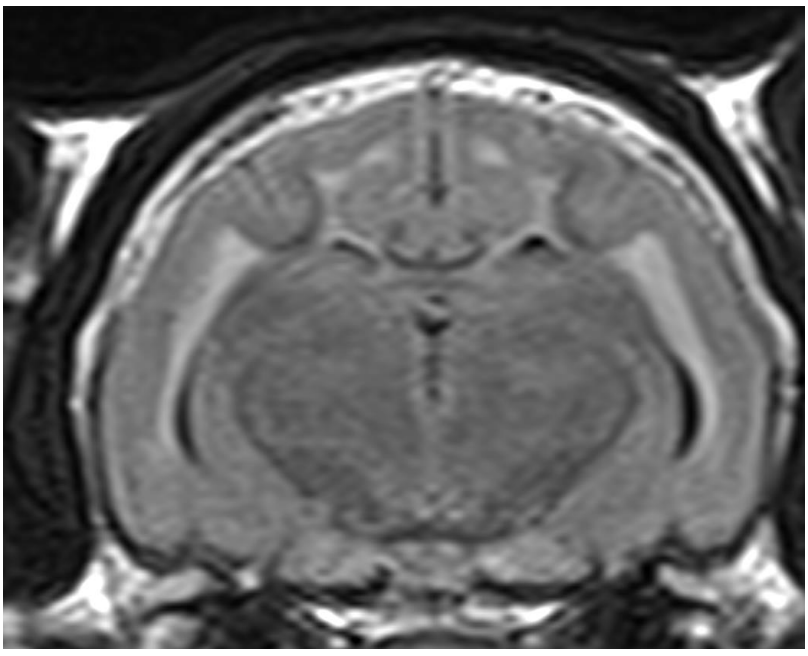

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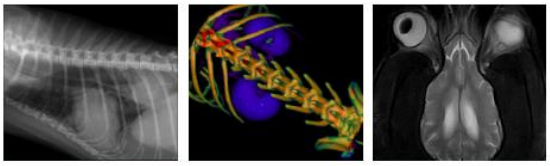

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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Nele Eley, DVM, Dr. med. vet., DipECVDI
European Specialist in Veterinary Diagnostic Imaging, Cert. Radiology,
Senior lecturer University of Giessen, Germany, Veterinary Faculty, Department of Radiology
Nele.Eley@sonopath.com