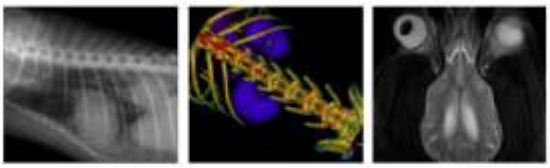
SonoPath Teleradiology
EDUCATIONAL TELECONSULTATION SERVICES™



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

PATIENT

Doc Burlington
Humane Society

SPECIES

Feline

BREED

DSH

SEX

M

AGE

4 Years

INTERPRETED BY

Nele Eley, DVM
Dr. med. Vet. DipECVDI

HOSPITAL NAME

Animal Health
Partners

REFERRING VET

Dr. Little

INVOICE

48009

DATE

10-26-21

PRESENTING CLINICAL SIGNS

Doc, an approximately 4 year old, male intact domestic short hair, presented to Animal Health Partners on October 26th, 2021 for seizures and suspected blindness. Doc was found on the side of the road on October 1st. Shortly thereafter he had a generalized seizure. He has had a number of generalized seizures. He has had a number of episodes of facial twitching. He was previously mentally inappropriate and seems to be a little better now.
Abnormal PE/Chem/CBC/UA Results: FIV positive Cranial nerve exam: Absent menace response OD. Absent nasocortical response OD. Remainder of cranial nerves within normal limits. Gait/posture: Ambulatory with no ataxia or paresis. Occasionally bumps into things on the right. Intermittently circles left. CSF was normal

MAGNETIC RESONANCE IMAGING STUDY OF THE BRAIN

T2, FLAIR, Plain and post contrast T1, plain and post contrast T2, diffusion weighted with ADC map, and gradient echo sequences available for review.

MAGNETIC RESONANCE IMAGING FINDINGS

There is no evidence of traumatic injury of the neurocranium and the included facial bones.

Eyes, optic nerves, and ocular motor nerves as well as the optic chiasm present within normal limits.

There is diffuse gray matter hyperintensity throughout the cortex of the left cerebral hemisphere with no significant mass effect. Mild generalized volume loss of the left cerebral hemisphere appears to be present.

There is mild bilateral hyperintensity within the piriform lobes and hippocampi.

Mild ex vacuo dilation of the left lateral ventricle is seen.

The hyperintense regions within the left cerebral cortex are hypointense in the corresponding T1 and contrast negative.

No evidence of hemorrhagic lesions is seen on the T2 star weighted sequence.

MAGNETIC RESONANCE IMAGING DIAGNOSIS

- Diffuse left sided cortical hyperintensity with mild volume loss and no evidence of increased contrast enhancement.
- Mild ex vacuo dilation of the left lateral ventricle.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The MRI findings are highly suggestive for laminar cortical necrosis which can be the result of cerebrovascular disease. However, cortical neuronal loss has also been described in patient's with feline immunodeficiency virus which appears to be a potential in this patient as well. Inflammatory or other infectious meningoencephalopathy as well as infiltrative disease cannot be ruled out entirely as differential diagnoses but are thought less likely in this patient, especially because of the absence of contrast enhancement, mass effect, and the distribution of the findings.

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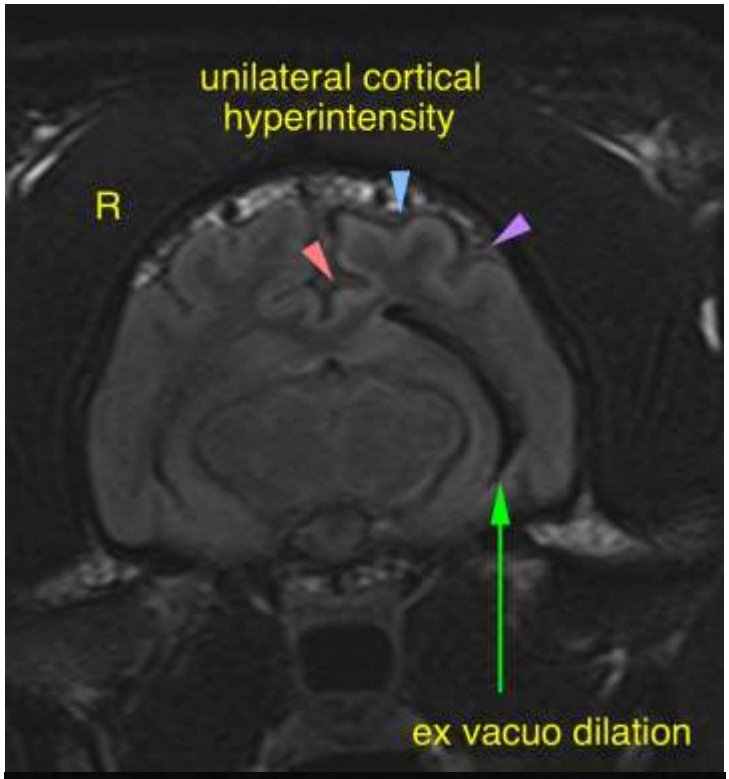
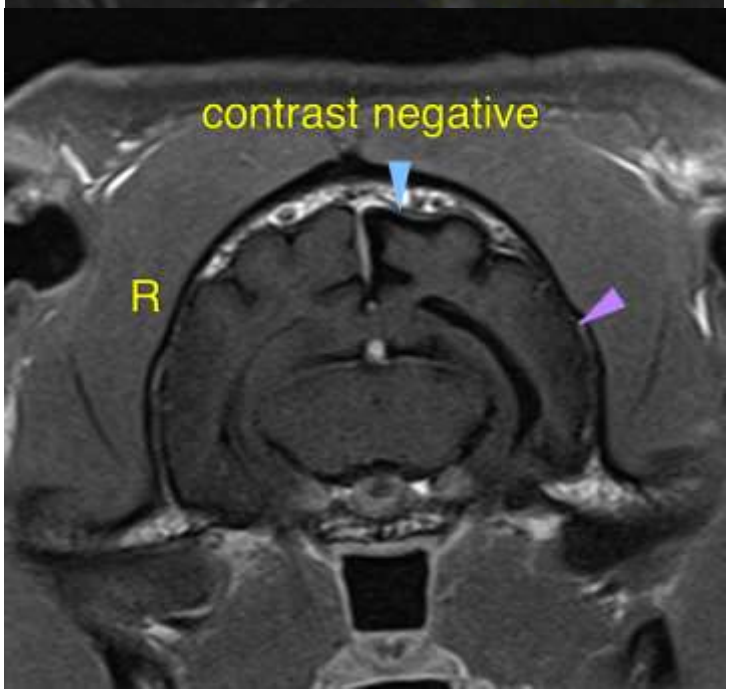
The mild diffuse hyperintensity in the piriform lobes is thought to represent postictal edema.





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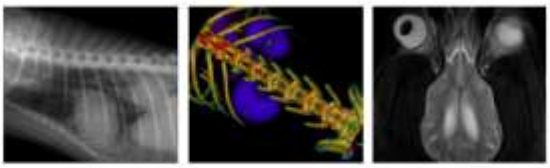

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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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