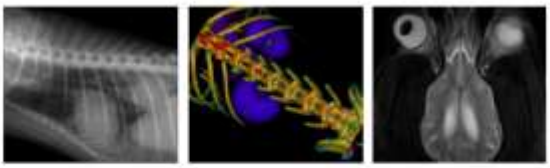
SonoPath Teleradiology

EDUCATIONAL TELECONSULTATION SERVICES™



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

PATIENT

Belle Woods

SPECIES

Canine

BREED

Cane Corso

SEX

FS

AGE

2 Years

INTERPRETED BY

Nele Eley, DVM
Dr. med. Vet. DipECVDI

HOSPITAL NAME

Animal Health Partners

REFERRING VET

Dr. Marchal

INVOICE

47082

DATE

8-21-21

PRESENTING CLINICAL SIGNS

Belle, a 2 year old, FS Cane Corso, presented to the AHP Neurology Service on August 21, 2021 for evaluation of abnormal gait and body posture. Belle clinical signs were first noted about a week ago. She showed signs of vomiting, not wanting to eat or drink, difficulty putting the head down, having issues with back end; staring off into space, staring at walls and startles easily. About 4 weeks ago, she also had a traumatic incident whereby she fell from the car onto the ground, hitting her face on the left side. She was suspected to have soft tissue injuries at that time, and also developed corneal opacity and a suspected uveitis and was treated with Trusopt and Tobrex eye drops for suspected glaucoma. It was reported that her vision was partially impaired due to the fact that she was bumping into the wall and objects at home.

MAGNETIC RESONANCE IMAGING STUDY OF THE BRAIN

T2-weighted, t2-star, FLAIR, and t1-plain and post contrast and diffusion weighted images in various image planes available for review.

MAGNETIC RESONANCE IMAGING FINDINGS

There is a large ovoid shaped suprasellar extra-axial mass of approximately 4.0 cm length and 2.0 cm diameter in a midline position with moderate mass effect onto the surrounding brain anatomy accentuating the thalamus and hypothalamus. There also is a significant mass effect onto the optic chiasm. Moderate bilateral lateral ventriculomegaly of the brain is noted as well as third ventricle enlargement. The caudal aspect of the mass presents stalk-like extension into the mesencephalic aqueduct causing obstruction of the ventricular system at this level.

The signal intensity of the mass is heterogeneously hyperintense on t2-weighted and FLAIR images with a central signal void on t2-weighted images which is further enhanced on the t2-star sequence.

The signal on t1-weighted images is mainly hypointense; however, the central signal void corresponds to mild hyperintensity on plain t1-weighted images.

The contrast enhanced FLAIR and t1 present central enhancement circumferential to the previously described signal void. The enhancement largely spares the periphery of the mass.

The FLAIR sequence shows bilaterally symmetric periventricular white matter edema.

MAGNETIC RESONANCE IMAGING DIAGNOSIS

- Suprasellar extra-axial mass meeting neoplastic criteria with evidence of intralesional hemorrhage.
- Obstructive hydrocephalus internus with pressure related periventricular white matter edema.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The MRI study reveals a suprasellar extra-axial mass with intralesional hemorrhage. Differential diagnosis includes pituitary adenoma and lymphosarcoma. Meningioma occurs occasionally in this position; however, the contrast enhancement pattern and intralesional hemorrhage both are atypical for meningioma.

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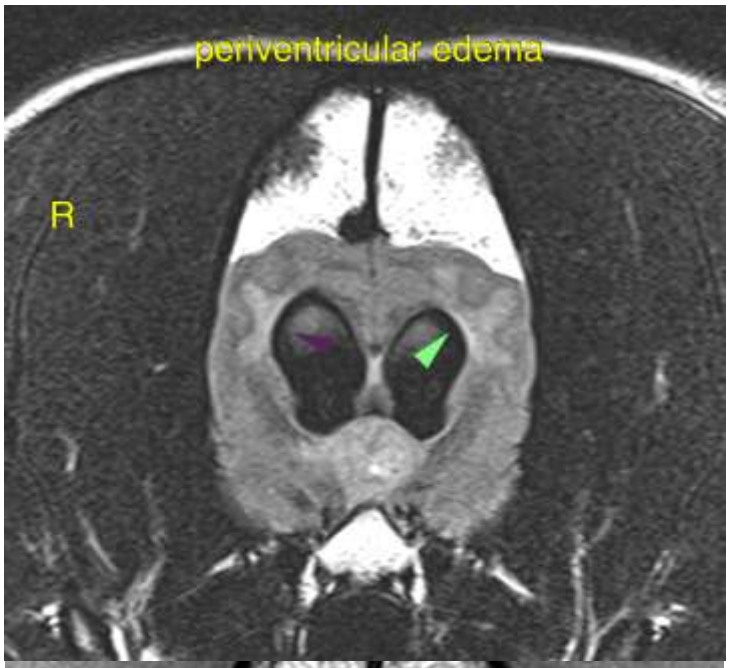
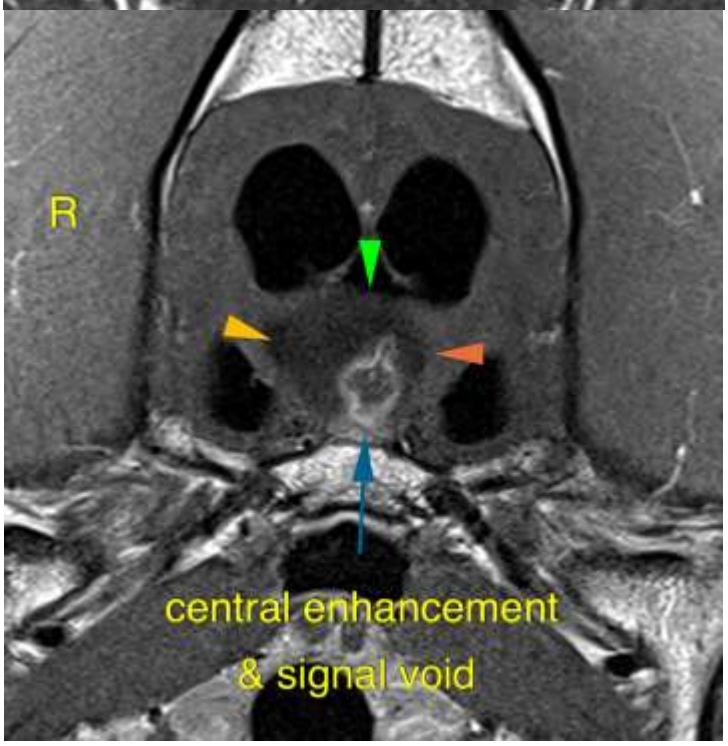
The intralesional hemorrhage supports the potential for recent pituitary apoplexy which may explain the exacerbation of the clinical signs. The mass effect onto the optic chiasm explain the vision loss. The ventricular system is obstructed level with the mesencephalic aqueduct which leads to internal hydrocephalus with active distension and periventricular white matter edema.





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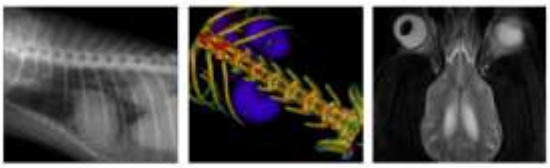

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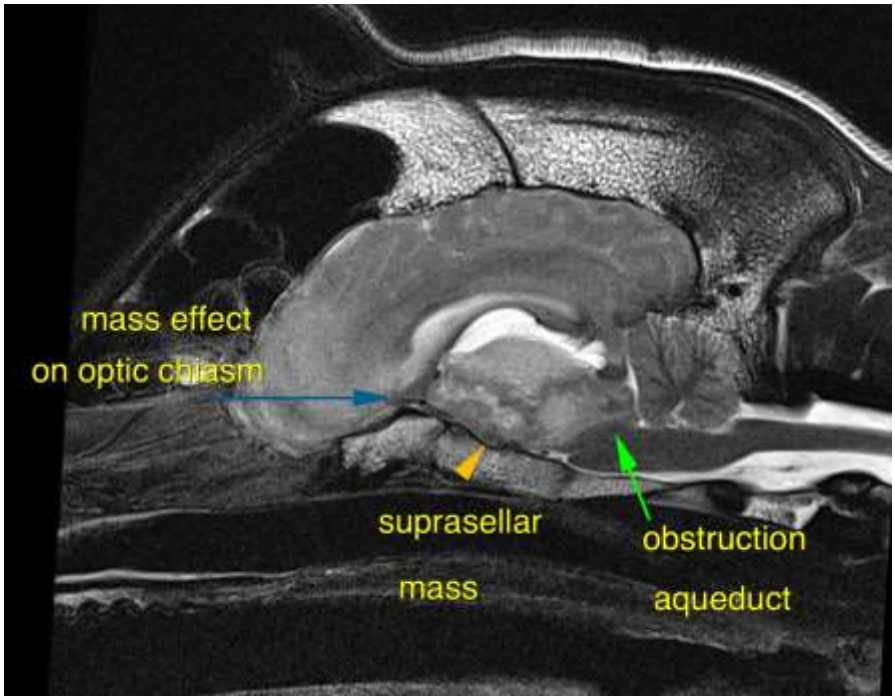

The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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
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