

Diagnostic Imaging Report

Owner

Marshall

Referring veterinarian

Bakewell Veterinary Clinic - Giles Bramwell

Patient

Bruce : Dog German

Shepherd

Male 6 years

MRI Performed on Aug 15, 2018

by Sue Fishwick

History

Seizures starting in January 2018.

Bruce had a cluster of seizures in January this year, which then repeated a month later, has been on phenobarbital. Bruce seizures were under control for 5 months but needed to increase the medication as seizures were not stopping. Bruce's seizures have been lateralised with him contorting his body round to the left when seizing, and on recovery he has sometimes circled and shown lateralised proprioceptive deficits. All these symptoms are not present when the post octal phase is over and Bruce is as normal neurologically.

Description

The study consists of precontrast sagittal SE T1, SE T2, dorsal SE T1, SE T2, transverse SE T1, SE T2, GRE T2, FLAIR, and post-contrast sagittal, dorsal and transverse SE T1 weighted images of the head taken before and after IV injection of gadolinium.

On precontrast images, a focal T2-hyperintense lesion is identified in the cortex of the right parietal lobe of the brain. No signal suppression is seen on FLAIR or GRE T2* sequences and a slight increase in signal intensity is seen on T1 weighted images. Minimal distortion of adjacent brain structures and left-sided deviation of the falx cerebri are noted. The ventricular system is of normal size. Tympanic bullae are filled with air. Inner ear structures are within normal limits.

On post-contrast T1 weighted images, uniform enhancement of previously described right parietal lesion is identified, demonstrating a well circumscribed mass measuring 12 to 16 mm in diameter. The mass has a broad base with the adjacent meninges, suggesting an extra-axial origin.

Conclusion

Extra-axial mass located in the right parietal lobe of the brain compatible with a neoplastic process. Primary consideration should be given to a meningioma.

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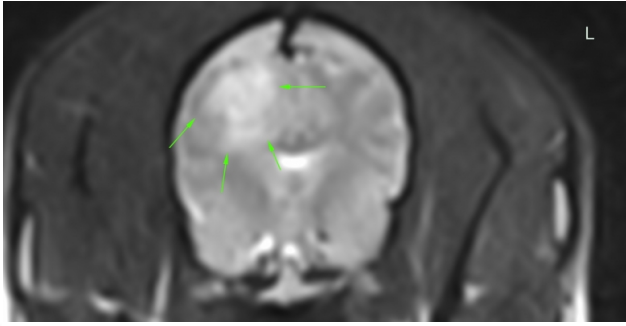


Fig.1 : Transverse T2 weighted image of the head showing an ill defined hyperintense mass in the right parietal lobe (arrows).

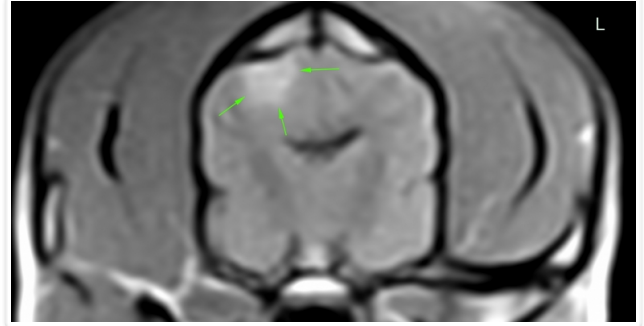


Fig.2 : Post-contrast transverse T1 weighted image of the head showing a well circumscribed hyperintense mass in the right parietal lobe (arrows).

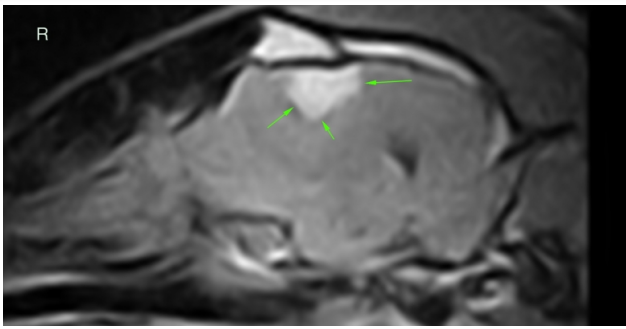


Fig.3 : Post-contrast sagittal right paramedian T1 weighted image of the head showing a well circumscribed hyperintense mass in the right parietal lobe (arrows).

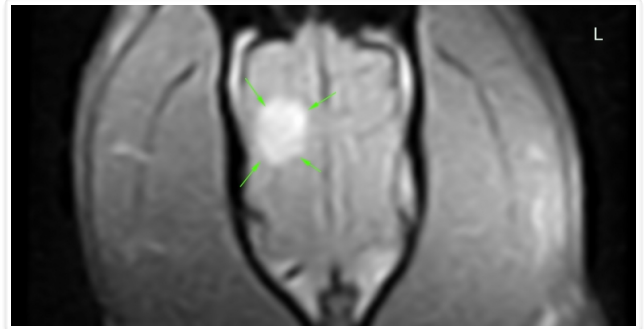


Fig.4 : Post-contrast dorsal T1 weighted image of the head showing a well circumscribed hyperintense mass in the right parietal lobe (arrows).