CNS Burkitts Lymphoma
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History
Teenager with seizure.

Diagnosis
CNS Burkitts Lymphoma

Discussion
Burkitt’s lymphoma is a malignant non-Hodgkin’s lymphoma consisting of undifferentiated, B-cells. Three types are described: an endemic form typically found in Africa that typically affects the facial bones; a sporadic form that typically affects the abdominal viscera; and a HIV-associated form. Ebstein-Barr virus has a high association with this disease. Translocation at the c-MYC gene at chromosome 8q24 to the heavy chain on 14q32, or, less commonly, to the light chain at 2q11 is the underlying genetic defect. Primary central nervous system Burkitt's lymphoma is extremely rare, being described by a few cases reports in the literature. The typical MRI appearance of CNS lymphoma is a poorly defined mass which is isointense on T1WI, hyperintense on T2WI, and diffusely enhancing (ring-enhancement is rare). On spectroscopy, CNS lymphoma has very high lipid and choline peaks relative to creatinine ratios compared to astrocytomas.

Findings
MR-Axial T1, T2 and post-gadolinium T1 images of the brain show multifocal enhancing lesions with marked mass effect and edema.

Reference

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