

## **ACUTE DEMYELINATING ENCEPHALOMYELITIS (ADEM) PRESENTING WITH DYSTONIA**

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**Introduction:** Acute disseminated encephalomyelitis (ADEM) is a monophasic autoimmune inflammatory demyelinating disease of the central nervous system that predominantly involves the white matter of the brain and spinal cord (1). It is a rare disease affecting both children and adults (2). In the majority of cases ADEM usually appears after vaccinations or viral/bacterial infections

**Methods:** This was a case study conducted at King Khalid Hospital.

**Results:** MRI showed subcortical white matter lesion in the right frontal region.

**Conclusion:** We conclude that the subcortical white matter lesion in the right frontal region detected by the MRI was responsible for the limb dystonia. We believe that this lesion seriously disrupted the cortical-striatal pathways in the right cerebral hemisphere, leading to dystonia.