

Case 2022-8

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Clinical history:

58-year-old man with a four-year history of bilateral essential tremor, right hand greater than left, for which thalamic deep brain stimulators(DBS) were placed. Subsequent MR imaging noted a 0.6 cm, non-enhancing, T2-hyperintense lesion in the left cerebellar white matter. MRI surveillance of the lesion documented a tripling in size. MRI report stated: "...contiguous involvement of the left middle cerebellar peduncle and brainstem, including the pons, extending across the midline."

Concomitant with the lesion growth, the patient's tremors returned and became refractory to DBS. Patient was referred to neurosurgery for biopsy of left cerebellar mass.

Material submitted:

H&E sections and MRI images.

Points for discussion:

- Discuss a differential diagnosis in the setting of a white matter lesion.
- Understand the pathogenesis of the diagnosis and management of the represented disease.