NYU Langone Health

RUSK REHABILITATION

CASE DESCRIPTION

- A 25 year old female presented with two years of diffuse, constant muscle cramps that began gradually after no known trauma.
- She denied falls, numbress, tingling, or weakness of extremities.
- On exam, she was alert and oriented. Strength was full in upper and lower extremities without tenderness to palpation, and sensation was intact. Gait was normal with heel- and toe-walking intact. A Hoffmann reflex was elicited only on the left. Babinski was downgoing bilaterally with no clonus. Lhermitte's sign was negative.
- MRI brain without contrast showed grouping of multiple small discrete nodules in the subcortical and deep white matter of the right parietal lobe with associated normal appearing cortex, consistent with MVNT.
- EEG showed subtle polymorphic focal slowing over the right temporal region, and no epileptiform activity.
- Patient was referred to Neuro-Oncology, who recommended MRI surveillance without surgical intervention.
- She was started on duloxetine and underwent 12 sessions of acupuncture with improvement in her pain.

DIAGNOSING MULTINODULAR AND VACUOLATING NEURONAL TUMOR (MVNT) AFTER A POSITIVE HOFFMANN SIGN: A CASE REPORT

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DISCUSSION

- \bullet tumor first described in 2013.
- It is comprised of subcortical multiple nodules of tumor with conspicuous vacuolation; they appear hyperintense on FLAIR and T2-weighted MRI, and are located along the inner cortex without mass effect or edema.

IMAGING

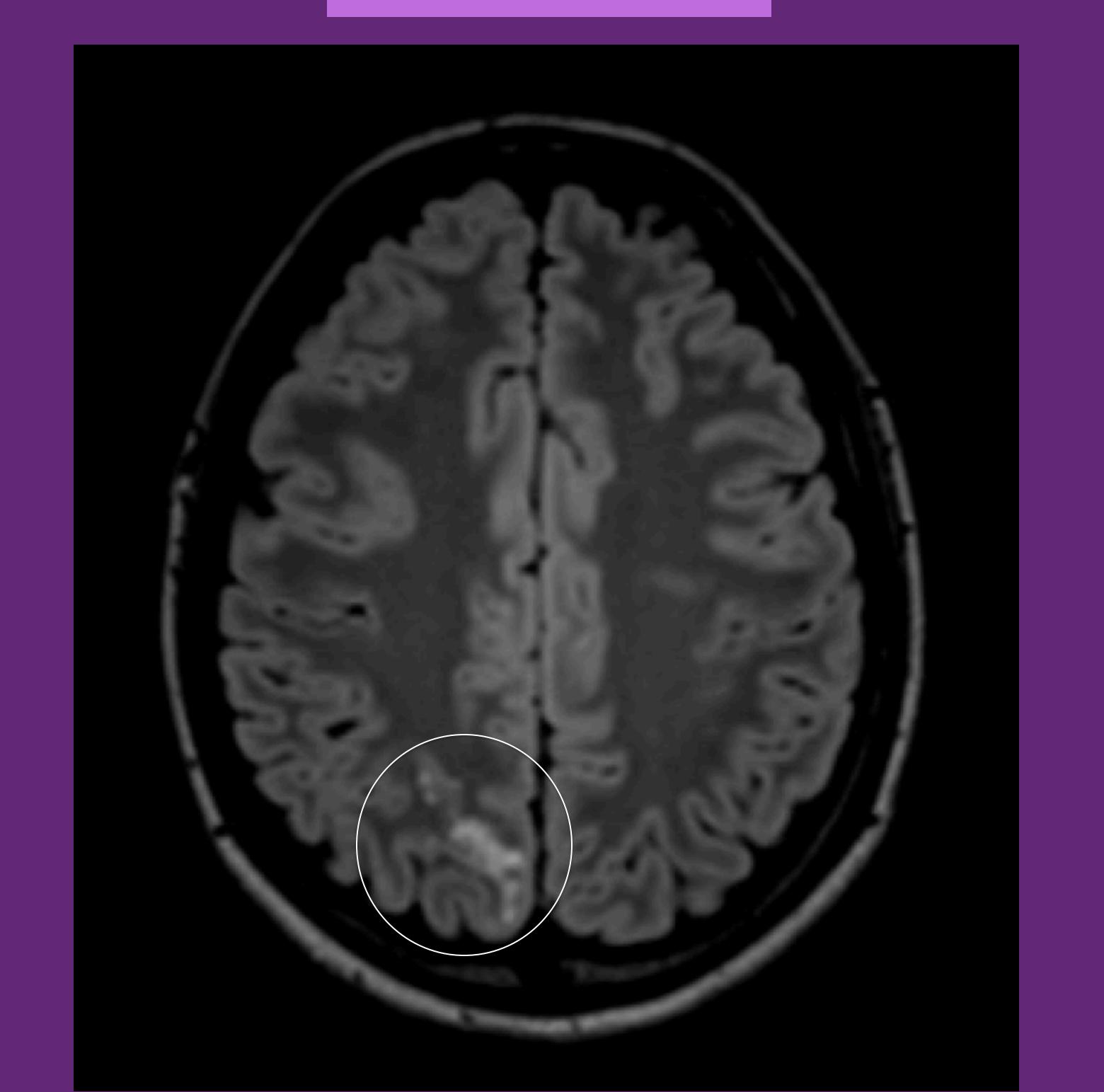


Figure 1: Axial FLAIR cut of MRI brain without contrast; the circle highlights the grouping of multiple small discrete nodules in the right parietal lobe with associated normal appearing cortex, consistent with MVNT

MVNT is a newly recognized central nervous system (CNS)

vertigo.

This case underscores the importance of a thorough physical exam, especially in the setting of a nonspecific complaint; the patient's unilateral positive Hoffmann sign was the only sign of her underlying rare CNS tumor.

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DISCUSSION, CONT.

MVNT appears to be a benign tumor that is usually an incidental finding and may be followed with MRI surveillance; however, there are case reports describing symptomatic patients who present mostly commonly with seizures, but also headaches, paresthesias, or

• To our knowledge, this is the first documented case report of MVNT in the rehab literature.

CONCLUSION

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