

CLINICAL IMAGE

MEDICAL QUIZ:2

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A 28-year-old woman with no past medical history presents to the general physician with a 4-month history of waxing and waning unilateral visual impairment and facial numbness back. Then she was referred to a neurologist. She gave the history as follows. She was reasonably well 4 months back when she noticed the onset of right-sided facial numbness and blurred vision lasting several weeks and tingling sensation to the right upper limb. She states that three episodes have occurred during the past 6-month time period. There was no associated muscle weakness of the facial muscles. Earlier today, upon waking up, the patient noted a sudden onset of blurry vision in her right eye and numbness on the right side of her face. She states she has not observed any muscle weakness, gait disturbance, fever, or urinary incontinence. Physical examination reveals a well appearing, anxious woman. Vital signs are temperature: 98.6 °F, heart rate:76 beats per minute,

blood pressure: 110/70 mmHg, respiratory rate: 16 breaths per minute. Neurologic exam reveals fundoscopy including visual acuity normal in the right eye. Muscle strength is 5/5 in all extremities. There is unilateral loss of sensation on the entire right half of the face; otherwise, all other cranial nerves are intact. Romberg sign is negative, and no gait disturbances are noted. Cardiac, pulmonary, and abdominal examinations are unremarkable.

A MRI of brain and spine had done and T2WI were given below. Answers the following questions.

- What is the imaging finding?
- What is the most likely diagnosis?
- What are the common differential diagnoses?
- Which biochemical test is done to confirm the diagnosis?
- What are the main modalities of acute treatment?

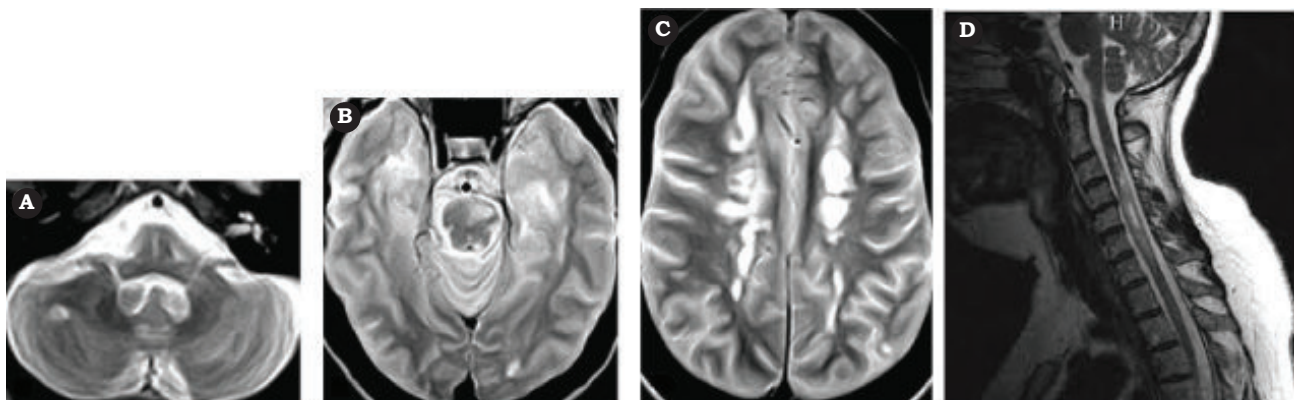


Figure:1 Axial magnetic resonance imaging (MRI) of brain (A-C) and MRI of the cervical spine (D)

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