NEUROMYELITIS OPTICA SPECTRUM DISORDER

PRESENTING WITH VISUAL LOSS AND APATHY: A CASE REPORT



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BACKGROUND AND PURPOSE

Neuromyelitis optica (also known as Devic's disease or Devic's syndrome) is an uncommon disorder in pediatric age group, and is characterized by acute or subacute optic neuritis and transverse myelitis.

We report a case of neuromyelitis optica spectrum disorder in a 17 years old teenager

CLINICAL PRESENTATION

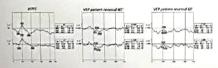
A seventeen-year old female presented with bilateral progressive diminished vision, in the last four days. During anamnesis and examination, she was apathetic and collaborated poorly. She reported occipital headache, upper and lower left limb numbness and nausea in the past week. Her medical history was unremarkable.

Neurological examination was normal.

CLINICAL TESTING

Initial exam	0.0	05
Visual aculty	LP.	LP
Pupils	No APD	
EOM's	Normal	Normal
PIO (mmHg)	18	18
Ocular Fundus	Normal	Normal

ELECTROPHYSIOLOGICAL TESTING



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. BRAIN AND MEDULAR MAGNETIC RESONANCE IMAGING (MRI)







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* LUMBAR PUNCTURE AND LABORATORY WORK-OUT

-Extensive immunological study, including immunophenotyping was only positive for arti-MDG antibodies

Blood and CSF serological and bacteriological tests were negative

PLAN AND TREATMENT

The patient was started on methylprednisolone 1g/day for 5 days and then initiated oral prednisolone, which was gradually trapped. Rituximab was also initiated.

EVOLUTION

Two months after the inaugural presentation, the nations had a great improvement, with resolution of neurological symptoms. At examination she presented a BCVA of 20/30 and 20/20 in OD and OS respectively.

COLOUR FUNDUS PHOTOGRAPHY





ELECTROPHYSIOLOGICAL TESTING



VISUAL FIELD AND OPTIC NERVE OCT



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CONCLUSION

Our patient fulfilled the diagnosis criteria for NMOSD. She presented 2 core clinical characteristic (optic neuritis and acute myelitis) and additional MRI imaging characteristics. Diagnosis of this pathology remains a challenge, however distinguishing NMOSD from other demyelinating discuses is essential for prognosis and therapeutic management.

REFERENCES

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