

When bilateral optic neuritis, complete spinal cord syndrome, and/or area postrema clinical syndrome are present,¹

CONSIDER NEUROMYELITIS OPTICA SPECTRUM DISORDER (NMOSD) AS A POSSIBLE DIAGNOSIS

FOR PATIENTS WITH UNTREATED NMOSD, ATTACKS CAN HAVE DEVASTATING AND PERMANENT CONSEQUENCES²

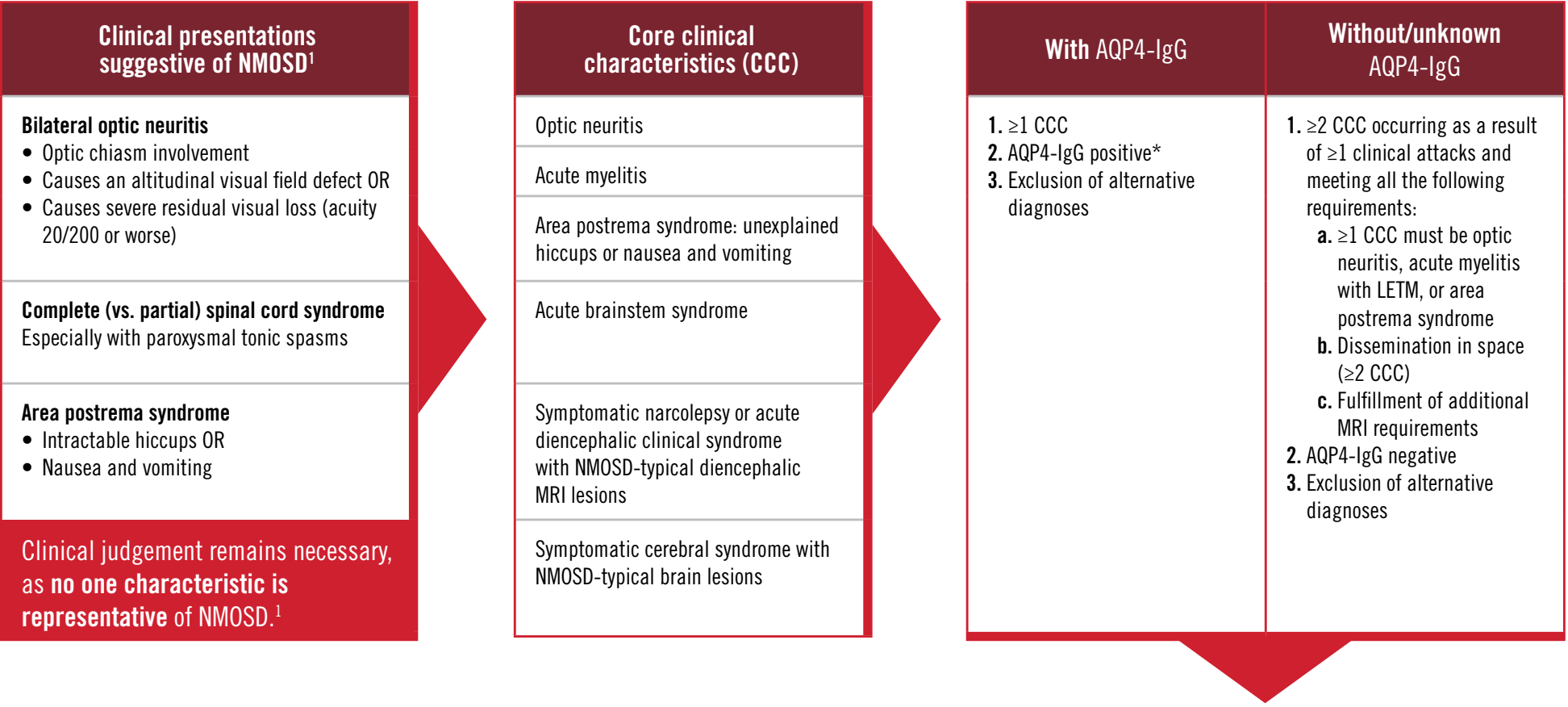
NMOSD IS A RARE ANTIBODY-MEDIATED INFLAMMATORY CNS DISORDER THAT IS **DISTINCT** FROM MULTIPLE SCLEROSIS (MS)¹⁻⁴

	Suggestive of MS	Suggestive of NMOSD
Pathology		
Anti-AQP4 antibody positive	No	Yes
Optic neuritis	Unilateral; localized	Bilateral; extensive
Myelitis	STM	LETM
Area postrema syndrome	No	Yes
Impact		
Relapse recovery	Better recovery (more likely to return to baseline)	Poorer recovery (less likely to return to baseline)
Relapse-dependent disability	Disability progression outside relapses	Relapses directly lead to cumulative disability
Patient demographics		
Median age of onset	30	40
Female to male ratio	2:1	9:1

AQP4, aquaporin-4; CNS, central nervous system; LETM, longitudinally extensive transverse myelitis; MS, multiple sclerosis; STM, short-segment transverse myelitis.

NMOSD can be distinguished from MS by testing for the presence of AQP4 antibodies.¹

DIAGNOSTIC CRITERIA FOR NMOSD¹



Additional MRI requirements for NMOSD without/unknown AQP4-IgG status
1. Acute optic neuritis: requires brain MRI showing: <ul style="list-style-type: none">a. Normal findings or only nonspecific white matter lesions, ORb. Optic nerve MRI with T2-hyperintense lesion or T1-weighted gadolinium enhancing lesion extending over >1/2 optic nerve length or involving optic chiasm 2. Acute myelitis: requires associated intramedullary MRI lesion extending over ≥3 contiguous segments (LETM) OR ≥3 contiguous segments of focal spinal cord atrophy in patients with history compatible with acute myelitis 3. Area postrema syndrome: requires associated dorsal medulla/area postrema lesions 4. Acute brainstem syndrome: requires associated periependymal brainstem lesions

* Cell-based assay strongly recommended.
IgG, immunoglobulin G; MRI, magnetic resonance imaging.

Vigilance and early intervention are key to limit morbidity and mortality from NMOSD.⁵

References:
1. Wingerchuk DM, et al. *Neurology*. 2015;85(2):177-189. 2. Jurynczyk M, et al. *J Neurol Neurosurg Psychiatry*. 2015;86(1):20-25. 3. Kawachi I, et al. *J Neurol Neurosurg Psychiatry*. 2017;88(2):137-145. 4. Masuda H, et al. *J Neurol Sci*. 2016;367:375-379. 5. Stavrou M, et al. *BMJ Case Rep*. 2018.

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