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ICMRI 2026
THE 14th INTERNATIONAL CONGRESS ON MRI
& 31st ANNUAL SCIENTIFIC MEETING OF KSMRM

AUGUST 27 - 28, 2026
Grand Walkerhill Seoul, Seoul, Korea
https://icmri.ksmrm.org/2026m

Pediatric

MS02-2

Neuroimaging Findings of MOGAD Brain Involvement in Pediatric Patients

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As a leading cause of acquired central nervous system demyelination in children, myelin oligodendrocyte glycoprotein antibody-associated disease (MOGAD) demands careful neuroimaging evaluation. While traditionally linked to classic acute disseminated encephalomyelitis (ADEM), MOGAD with brain involvement exhibits significant clinical and radiological heterogeneity. Because current diagnostic criteria may not fully capture this expanding spectrum, recognizing these diverse, atypical patterns is crucial to prevent underdiagnosis and treatment delays.
In this lecture, we will explore the broad neuroimaging spectrum of pediatric MOGAD. Although ADEM remains the most common phenotype, we will emphasize several distinct non-ADEM phenotypes that are critical to identify in daily practice. These include cerebral cortical encephalitis, aseptic meningitis, tumefactive demyelinating lesions, and cerebellitis/brainstem encephalitis. Ultimately, this focused review will help refine your diagnostic approach to the highly variable imaging manifestations of pediatric MOGAD.

Keywords: *Myelin oligodendrocyte glycoprotein antibody, MOGAD*