Advanced Neuroimaging 2: Across the Lifespan

Pediatric Inflammatory Disorders

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Highlights:

1) Understand classifications/definition of pediatric CNS inflammatory demyelination
2) Monophasic CNS inflammatory demyelination: ADEM, CIS, NMO
3) Relapsing CNS inflammatory demyelination: Recurrent ADEM, Multiphasic ADEM, Relapsing NMO, Pediatric MS
4) Review clinical profiles and risk factors of pediatric CNS inflammatory demyelination
5) Understand reported features associated with increase/decreased risk of relapse
6) Differential Diagnosis: based timing of onset of symptoms (hyperacute, acute/subacute/insidiously progressive)
7) Review MRI criteria for pediatric multiple sclerosis and differentiation from non-multiple sclerosis
8) Review other types of non-demyelinating inflammatory disorders
9) Pediatric MR scoring tools for demyelinating disorders
10) Advanced pediatric MRI techniques to investigate tissue integrity or biochemistry: magnetic transfer imaging, diffusion tensor imaging, MR spectroscopy

References:


Vshwas MS, Healy BC, Pienarr R, Gorman MP, Grant PE, Chitnis T. Diffusion Tensor Analysis of Pediatric Multiple Sclerosis and Clinically Isolated Syndromes AJNR 2012 Aug 2 [Epub ahead of print]