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Dr. Varaprasad and Dr. Agrawal reply

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The Journal of Rheumatology is a monthly international serial edited by Earl D. Silverman featuring research articles on clinical subjects from scientists working in rheumatology and related fields.
Dr. Varaprasad and Dr. Agrawal reply

To the Editor:

We appreciate the opportunity to discuss our case series of posterior reversible encephalopathy syndrome (PRES) in systemic lupus erythematous (SLE) and comment on the neuroimaging. We agree with Wang, et al1 that T2 white matter hyperintensities on magnetic resonance imaging (MRI) should be complemented by diffusion-weighted imaging (DWI) and apparent diffusion coefficient (ADC) mapping2,3.

In our case series, patients developed PRES in the settings of active SLE: nephritis (n = 10), hypertension (n = 13), those taking oral steroids (n = 7), and those taking cyclophosphamide pulses (n = 4; 2 developed PRES within 2 days of infusion). All these are known risk factors for developing PRES. They presented with a symptom complex of seizures, altered sensorium, visual abnormalities, headache, vomiting, and reversible focal deficits4. All had characteristic MRI features with bilateral white matter hyperintensities involving not only the classical occipital and parietal lobes but also the frontotemporal and cerebellar areas in 2 cases. DWI and ADC mapping were done to rule out infarcts due to vasculitis (not elaborated in original article). Cerebrospinal fluid analysis and blood cultures were also done to rule out infectious etiology.

The differential diagnosis of PRES in SLE includes CNS infections, seizure disorder, stroke, demyelination, and vasculitis. Reversible perictal imaging changes in patients with isolated seizures are usually confined to the hippocampus or region of epileptic discharge as focal parenchymal T2 hyperintensity and restricted diffusion5.

PRES itself can be a manifestation of endothelial dysfunction and in severe cases with extensive lesions, the MRI may show areas of pseudo-normalized ADC values, with DWI suggestive of infarcts that affect the prognosis6. Apart from the typical MRI features, PRES may also show atypical features such as unilateral lesions, involvement of anterior circulation, cortical lesions, and hemorrhage into lesions2.

In practice, the diagnosis of PRES in SLE should be based on characteristic clinical symptoms, with MRI findings being confirmatory.

REFERENCES


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