

Magnetic Resonance Tomography in the Diagnosis of IgG4-Related Kidney Disease (Literature Review with Own Clinical Reviews)

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Abstract

Abstract

IgG4-related disease (IgG4-RD) is a fibroinflammatory condition characterized by the occurrence of tumor-like foci in different organs with a unique histological pattern. The kidney is a frequently affected organ with tubulointerstitial nephritis, the representative lesion of IgG4-RD. We describe a 57-year-old man with IgG4-related kidney disease in which relatively rapidly progressive nephropathy. MRI is an alternative for patients with renal function impairment and contraindication to contrast-enhanced CT. On T2-weighted images renal lesions are hypointense and hyperintensity on diffusion-weighted imaging at a high b value. A percutaneous renal biopsy revealed IgG4-related kidney disease. Prescribing of prednisolone 40 mg/day improved the renal function. A rapid response to corticosteroid therapy is a very important feature of IgG4-RD. When the patient was arbitrarily withdrawn glucocorticoids, a relapse with progression of renal dysfunction was observed. The clinical course of this case highlighted the importance of MRI imaging to facilitate the earliest diagnosis and effective therapeutic intervention.

Key words: IgG4-Related Disease, IgG4-Related Kidney Disease, MRI, DWI, Treatment of IgG4-Related Kidney, Glucocorticosteroids.

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