An uncommon presentation of a rare disease: Membranous-like glomerulopathy with masked IgG kappa deposits (MGMID)

Introduction

Membranous-like glomerulopathy with masked IgG kappa deposits (MGMID) is a rare glomerular disease characterized by glomerular immune deposits that are not detected on routine immunofluorescence (IF), but appear on paraffin IF. On Electron Microscopy, deposits stain for IgG kappa light chains and are usually subepithelial or mesangial. The disease primarily affects females under 40 and typically presents with nephrotic-range proteinuria, hematuria, and preserved complement levels. PLA2R antibodies are consistently negative. Although some patients have positive autoimmune serologies, MGMID is not clearly autoimmune in nature.

Case

We report a rare case of MGMID in a 77-year-old male with paroxysmal atrial fibrillation, CAD s/p CABG, mechanical aortic valve replacement, and progressive CKD. He presented with worsening renal function, microscopic hematuria, and 24-hour urine protein of 3.2 g/day and was being evaluated for SLE. Serologic workup showed indeterminate anti-dsDNA, initially negative ANA (later repeated as positive), low C3/C4, and positive antiphospholipid antibodies. Due to thrombocytopenia, a renal biopsy was delayed and he was given IV dexamethasone and IVIG. Once stabilized, biopsy confirmed MGMID. Coincidentally, renal function improved with IVIG and steroids. After in hospital treatment, he was discharged on mycophenolate mofetil for ongoing immunosuppression.

Discussion

This case highlights an atypical presentation of MGMID in an elderly male. While the disease classically affects young females, this patient demonstrated typical clinical and histologic findings. The presence of autoimmune markers raises questions about a potential immune-mediated component, though definitive mechanisms remain unclear. There is no established treatment, and reported therapies include RAAS blockade, steroids, and immunosuppressants with variable outcomes. Although our patient received steroids, IVIG, and mycophenolate for SLE, incidentally, the MGMID improved as well. As MGMID is increasingly recognized, broader age and gender presentations may become apparent, and further studies are needed to define optimal management strategies.

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