

# DERMATOLOGY AND TRICHOLOGY

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### MONOCLONAL GAMMOPATHY OF RENAL SIGNIFICANCE (MGRS): DIAGNOSTIC CLUES

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**M**onoclonal gammopathy of renal significance (MGRS) is a recently described haemato-nephrological meta-entity caused by monoclonal immunoglobulins (Ig) or humoral factors secreted by small B-cell clones. MGRS can affect any nephronal area with a broad spectrum of histopathological patterns which can coexist even in the same patients. Given that, MGRS can clinically appear as any of the classical nephrological syndromes, from a nephrotic syndrome to a polyuric state. Kidney injury mediated by monoclonal Ig is mainly the result of its deposit in renal tissue, as in AL amyloidosis. Monoclonal Ig can also have auto-antibody activity which is responsible for a cluster of disorders related to the dysregulation of the alternative pathway of complement, for example, atypical hemolytic uremic syndrome. The third pathophysiological mechanism depends on humoral factors like in POEMS syndrome's nephropathy. Renal biopsy has a diagnostic and a prognostic role, both with therapeutic implications. Renal biopsy is imperative to achieve a precise MGRS diagnosis. MGRS as a meta-entity is a fascinating challenge which is changing nephrological paradigms.

### BIOGRAPHY

Mariana Ciocchini is an MD (Universidad de La Plata) and Nephrologist (Universidad de Buenos Aires). Her research focuses on monoclonal gammopathy of renal significance and she has published papers about this subject in a reputed journal. She is a Member of the Glomerulopathy Council, ANBA, Argentinian Society of Nephrology being one of the co-authors of the book "Glomerular Diseases" recently published by this group.

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