

PREDICTORS OF RENAL SURVIVAL IN PATIENTS WITH IDIOPATHIC MEMBRANOUS NEPHROPATHY



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INTRODUCTION AND AIMS

Idiopathic membranous nephropathy (IMN) is a common cause of the nephrotic syndrome in adults. In this

multicenter study, we aim to assess the relationship between histopathological, clinical, and laboratory

findings in patients with IMN.



Two hundred and eighty-one IMN patients [59.8% male, mean age 45±15 years] from four nephrology

clinics were enrolled. The impact of histopathological lesions (glomerular sclerosis, crescents, intensity and

pattern of staining for C3 and IgG) and clinical markers [age, gender, systolic and diastolic blood pressure

(BP), estimated glomerular filtration rate (eGFR), serum creatinine, hemoglobin (Hgb), albumin, proteinuria,

anti-PLA2R antibody] on composite renal outcome [defined as development of end stage renal disease (ESRD) or a >50% decrease in eGFR as compared to baseline levels] were assessed using Cox regression analysis.



Mean levels of systolic and diastolic BP, serum creatinine, albumin, and proteinuria at the time of diagnosis

were 130±18 mmHg, 81±11 mmHg, 1.00±0.77 mg/dL, 2.72±0.77 g/dL and 6.20±3.95 g/day, respectively.

Composite renal outcome developed in 33 (11.7%) and ESRD developed in 15 (5.3%) patients after a

median of 33.5 (IQR: 14-66.6) months. In Cox regression analysis, histological lesions were not associated

with progression of IMN. However, systolic BP (B: 1.087, p=0.038), Hgb (B: 0.438, p=0.047) and eGFR (B:

0.917, p=0.011) levels at baseline predicted composite renal outcome.

CONCLUSIONS

Our study shows that progression of IMN and development of ESRD are associated with the presence of

clinical risk factors, in particular systolic BP, impaired kidney function and anemia at the time of diagnosis.

