

Histological profile of renal involvement in multiple myeloma

Assia Kharrat, Fatima Hamama, Khadija Harmak

CHU Ibn Rochd, Casablanca, Morocco

Abstract

Multiple myeloma (MM) or Kahler's disease is the haematological malignancy most frequently associated with the production of monoclonal immunoglobulins. Renal involvement is frequently associated. The prognosis appears dark despite advances in treatment.

The main objective of our study is to determine the histological profile of renal involvement in multiple myeloma.

We conducted a retrospective descriptive study spread over 5 years from January 2018 to December 2023 including all patients with multiple myeloma with renal involvement and managed in our nephrology department at CHU Ibn Rochd in Casablanca.

A total of 34 patients with a mean age of 54.12 years and a male predominance of 55.9% were enrolled. Renal involvement was the first sign of MM in 82.3% of cases, revealed by renal failure in 82.3% of cases with a mean creatinine level of 94 mg/l, requiring haemodialysis in 52.9% of cases. Positive proteinuria was found in 25 patients, 12 of whom were nephrotic. Kidney biopsies were performed in 24 patients, revealing myeloma-cell nephropathy in 16 and AL amyloidosis in 8.

Renal involvement in MM takes several forms and affects prognosis and management.