

Multiple myeloma and renal impairment. A series of 162 patients.

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Objectives:

- ✓ Multiple myeloma accounts for 80% of monoclonal gammopathies.
- ✓ Renal impairment occurs frequently whether in diagnosis or in the course of the disease.

Methods:

- ✓ We reviewed the cases of patients admitted in our department and having multiple myeloma with renal impairment between 1974 and 2015.

Results:

- ✓ We exploited data from the medical records of 162 patients.
- ✓ The sex-ratio is 1,1.
- ✓ The mean age is 63 years-old [31- 86].
- ✓ Smoking patients represent 33%.
- ✓ Deterioration of the general status is reported in only 20% of the cases in diagnosis.
- ✓ The mean serum creatinine level is 680 $\mu\text{mol/l}$ [50- 2960], serum calcium level is 2,43 mmol/l [1,35- 3,75], hemoglobin concentration is 8,8 g/dl [3- 15] and platelet count is 208000/ mm^3 [100000- 571000].
- ✓ Lymphocyte proliferation varies from 6 to 100%, bone marrow biopsy being necessary in doubtful cases.
- ✓ 28 cases are light- chains myeloma. 3 cases are IgD myeloma.
- ✓ 43 patients undertook a kidney biopsy.
- ✓ The majority of patients were treated with a combination of *melphalan/ prednisone* and *thalidomide*, 2 with *cyclophosphamide/ dexamethasone* and 2 others with *bortezomib/ dexamethasone*.
- ✓ 61 patients (37%) died during the follow-up (mean of follow-up: 1- 62 months).

diagnosis	renal tubulopathy	renal amyloidosis	monoclonal immunoglobulin deposition disease (Randall type)
Number of patients	29	9	5

Table: Results of kidney biopsies

Conclusions:

- ✓ Multiple myeloma is a serious disease with a bad prognosis, especially when associated with a renal impairment.
- ✓ The new treatment options, particularly *bortezomib*, seem quite promising compared to the standard protocol of alkylating agents and steroids.

