Eye involvement rarely seen in plasma cell myeloma

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PURPOSE

Multiple myeloma (MM) is a malign tumor, synthesizing abnormal amounts of immunoglobulin and originating from plasma cells infiltrating the bone marrow. Organ involvement other than the bone is rare. Here, we presented a patient diagnosed MM with eye involvement, which is rarely seen.

CASE

A 64-year-old male patient with elevated total protein and ESR, and deteriorated renal functions was referred to our clinic. The patient had chronic obstructive lung disease. Laboratory examinations were as follows; ESR 65 mm/h, hemoglobin 12.2 g/dl, WBC 5400 /µL, thrombocyte 208 000 /µL, BUN 23 mg/dl, creatinine 1.62 mg/dl, calcium 11.1 mg/dl, total protein 11.3 g/dl, albumin 3.1 g/dl, and B2 microglobulin 4882 ng/ml. Immuno-electrophoretic examination showed monoclonal gammopathy (IgG heavy and kappa light chain) (IgG 66,9 g/dl) in the serum and urine. The MRI and PET-CT scans showed multiple lytic lesions in skeletal system. Biopsies of bone marrow revealed plasma cell myeloma infiltration. After 2 courses of vincristine, adriabalastina and dexamethasone treatment, bortezomib, cyclophosphamide and dexamethasone (VCD) chemotherapy protocols were started. After 3 VCD courses, immunoglobulin levels were in normal range and radiotreaphy (RT) was given to thoracal vertebra (T1-T9) area. After RT autologous bone marrow transplantation was planned, but all treatment was stopped due to severe pneumonia. After 2 months he was hospitalized due to discomfort and blurred vision in his right eye. There was no major lesion in cranial and orbital MRI. There was only hypopyon in the anterior chamber of a right eye. The flow cytometric study of the sample from this side revealed 22% CD138 + cells, which was compatible with involvement of eye. At this time, free light chains and heavy immunoglobulin levels, and the percentage of plasma cell in bone marrow were in normal range. There was no new lesion on skeletal system. Only monoclonal gammopathy was persisting. RT was given to right eye. After RT, 1 course of VCD was given, again bone marrow transplantation was planned, but, he was not tolerated the peripheral stem cell harvest procedure. He is still under treatment.