Introduction

Case Presentation

A man, 72 years old with complaints of weakness accompanied by low back pain since 3 months ago. Physical examination revealed pale palpebral conjunctiva and a lump in the abdomen. Abdomen CT-Scan showed solid malignant in the upper left abdominal cavity and immunohistochemical results showed CD117 (+) and DOG1 (+) in all tumor cells. Laboratory results showed hemoglobin 8.7 g/dL, urea 58 mg/dL, creatinine 1.8 mg/dL, albumin 2.3 g/dL, globulin 12.8 g/dL, uric acid 11.7 gr/dL, and calcium 13.1 mg/dL with serum protein electrophoresis which showed decreased albumin fractions α1, α2, β1, and β2; an increased γ fraction with an inverse albumin/globulin ratio is appropriate for monoclonal gammopathy. Bone survey with multiple teardrops lytic lesions on the calvaries bones, cervical vertebrae, all thoracic vertebrae, lumbar vertebrae, pelvic bones, part of the proximal sternum and humerus bilaterally.

The results of the bone marrow aspiration examination showed 25% plasma cells.

Discussion

Gastrointestinal stromal tumors (GIST) are a subgroup of malignant mesenchymal tumors that arise from the interstitial Cajal cells of the gastrointestinal tract. Based on the Asian GIST management consensus, the GIST diagnosis algorithm is based on positive immunostaining for KIT (CD117) and DOG1 [1]. The standard treatment for patients with GIST is the administration of tyrosine kinase inhibitor (Imatinib) given at a dose of 300 mg q.d. based on the weight of the patient accompanied by anemic conditions that require close monitoring, associated with gastrointestinal side effects and myelosuppression. Treatment response was evaluated every 3 months in the

Keywords: Gastrointestinal stromal tumour- multipel myeloma- coexistance
first 2 years and if improvement was found it could be done every 6 months [2] (Figure 1).

This patient, apart from being diagnosed with GIST as a form of solid malignancy, was also suffering from active multiple myeloma (MM) blood disease which is characterized by an organ disorder known as mnemonic CRAB consisting of hypercalcemia, impaired renal function, anemia, and bone lytic disease. These patients were classified in the frail group who had a higher likelihood of experiencing treatment side effects, a greater risk of treatment discontinuation, and lower overall survival and progression-free survival [3]. Considering various clinical considerations (ECOG performance status, frailty status, and socioeconomic), it was decided to give induction therapy with an MP regimen consisting of Melphalan 0.25 mg/kg body weight given orally (days 1-4) and Prednisone 100 mg given orally (days 1-4); 6-week intervals until the plateau phase is reached [4]. In this patient there is a rare condition, due to the presence of coexistence of solid malignancy (GIST) and hematological malignancy (MM). Ponti et al. [5] reported several cases of GIST together with other solid malignancies, but GIST together with hematologic malignancies in the form of MM have not been reported. Therapy must be carried out simultaneously although the priority is MM because it is predicted to have a worse prognosis, whereas, for GIST conditions, tyrosine kinase inhibitors are given according to the GIST treatment guidelines.

**References**


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