

**EXPERIENCE OF SINGLE APBSCT VERSUS ALLO-PBSCT IN PATIENTS WITH MULTIPLE MYELOMA FROM A SINGLE INSTITUTION OF SOUTHERN TAIWAN**

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**BACKGROUND:** Autologous stem cell transplantation (ASCT) is considered the standard care for younger patients with multiple myeloma (MM). However, allogeneic stem cell transplantation is a possible curative approach for myeloma patients, with lower relapse rate than ASCT. The possible advantage of allogeneic transplantation is a graft-versus-myeloma (GVM) effect by immunocompetent donor lymphocytes. However, the transplant-related mortality rate is still high.

**RESULTS:** In the past few years, there were 8 patients identified. This included 5 receiving single autologous peripheral stem cell transplantation (APBSCT) and 3 receiving allogeneic PBSCT (allo-PBSCT) in our institute. In APBSCT group, there are 3 male and 2 female patients. The average age was 40 years. Two patients had the lamda-light chain disease type and others are IgG, lamda light chain type. All of them were stage III. In allo-PBSCT group, there are 3 female patients with average age of 42-year-old. All of them were MM, IgG kappa light chain, stage III. Chemotherapy with VAD was prescribed before transplantation and the conditional regimens were BEAM or Melphalan+etoposide+cyclophosphamide.

In APBSCT groups, two males died from reactivated hepatitis B, with event-free survival (EFS) 6 months and 5 months respectively. The other male had EFS of 34 months which was controlled with Thalidomide for 24 months, but was subsequently lost to follow-up. In APBSCT group, one female survived for 10 months and the other survived for 2 months. In allo-PBSCT group, all these 3 females had grade 1 to 3 skin GVHD. One has EFS 50 months and survived till now. Another patient suffered a disease relapse 2 months later. Moreover, one remained asymptomatic up to now.

**CONCLUSION:** Few case reports were observed. The definite role of APBSCT and allo-PBSCT in MM needed to be further clarified.

**Key words:** PBSCT, MM, EFS