عنوان مقاله:

Assessment of changes in white blood cells in leukemia patients after bone marrow transplant: random effects model

محل انتشار:

سومین سمپوزیوم بین المللی سرطان نسترن (سال: 1396)

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خلاصه مقاله:

Leukemia is a type of cancer found in your blood and bone marrow and is caused by the rapid production of abnormal white blood cells. These abnormal white blood cells are not able to fight infection and impair the ability of the bone marrow to produce red blood cells and platelets. The aim of this study was to assess the changes in white blood cells in leukemia patients after bone marrow transplant using random effects model. 100 post allo/auto-HSCT patients (50 women and 50 men, mean age: 42.6± 13.39 and 35.5 ±15.29 years, respectively) In the HSCT department, Taleghani hospital in Tehran, Iran, (from 2007 to 2014) entered into the retrospective study and their RBC count were considered as a response variable. Explanatory variable was disease type. The analysis was performed using random effects model and SAS software. P-value less than 0.05 considered as significance level. The result of this study indicated that disease type (P<0.001) and time trend (P<0.001) had significant effect on changes in WBC count and need to packed cell transfusion after allo/auto-HSCT. We found out that WBC count and need to the WBC transfusion after AHSCT were associated with the type of the disease and time trend

کلمات کلیدی:

Blood Cancer, Cancer Prevention, Cell and Cancer, Cancer Stem Cells, Stem Cells and Cancer

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