

عنوان مقاله:

Does the Chemotherapy Protocol Affect CXCL\u00a7/CXCR\u00aa Axes in Acute Myeloid Leukemia Patients with Monocytic ?Differentiation

محل انتشار:

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خلاصه مقاله:

Background: The CXCRF receptor along with CXCLIF is believed to have an effect on the onset, progression, migration, and treatment complications and improve acute myeloid leukemia (AML) treatment outcomes. In this study, we investigated the impact of (Y+W) chemotherapy protocol on the expression of CXCRF and its related ligand CXCL\Y.Method: In this case-control study, specimens were collected before and after the first cycle of chemotherapy of AML-MF and AML-Ma patients. Reverse transcription polymerase chain reaction (RT-PCR) and flow cytometry techniques tested the CXCRF expression. ELISA was used for measuring the serum level of CXCL\forall . Two samples, ttest and paired t-test, were utilized for data analysis. Results: We found that CXCRF expression by lymphocyte cells after chemotherapy was approximately similar to the CXCRF expression in the healthy subjects. Moreover, CXCRF expression was high prior to chemotherapy. The serum level of CXCLIY considerably increased in the patients before chemotherapy. However, after chemotherapy, CXCL\Y was found to reach the baseline level in comparison to the healthy control group. Conclusion: The (Y+T) current chemotherapy inhibited CXCLIY. Therefore, controlling chemokines along with chemotherapy in AML patients might be conducive to the treatment process or even prevent .the relapse of the disease

کلمات کلیدی: Acute myeloid leukemia, Chemotherapy, Chemokine, CXCL۱۲, CXCR۶

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