

PB1951 INVESTIGATION OF THE RELATIONSHIP BETWEEN CD56 AND CD117 EXPRESSIONS AND CLINICAL AND LABORATORY FINDINGS IN MULTIPLE MYELOMA PATIENTS AT DIAGNOSIS

Topic: 13. Myeloma and other monoclonal gammopathies - Biology & Translational Research

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Background: Multiparametric flow cytometry-based immunophenotyping is a useful tool for the diagnosis and monitoring of multiple myeloma. Multiparametric flow cytometry can distinguish malignant plasma cell populations from the reactive/normal plasma cells in samples effectively.

Aims: We planned to analyze the relationship between demographic data, biochemical parameters, survival times of CD56 and CD117 positive or lamps in MM patients who were treated at the center and present it as the experience of a center.

Methods: In our study, 94 Multiple Myeloma patients who were diagnosed and treated and followed up in Gaziantep University Hospital Hematology Clinic between April 2004 and October 2018 were included. Normal distribution tests of numerical variables were performed using Kolmogorov-Smirnov and Shapiro Wilk tests. Survival analyzes were performed by Kaplan Meier analysis. Analyzes were carried out with the help of SPSS 22.0 program. A significance level of $p < 0.05$ was chosen.

Results: The median age of the patients was 62.5. 57.4% of the patients were male and 42.6% were female. 6.3% of the patients were IgM type, 72.3% IgG, 13.8% IgA, 7.4% light chain type. Kappa chain type was present in 55.3% of the patients, while lambda type was detected in 44.6% of the patients. The CD56 expression rate of the patients at the time of diagnosis was 42.5%, and the CD117 expression rate was 30.9%. Double negativity was calculated as 53.1%, while double positivity was calculated as 26.5%. A statistically significant relationship was found between the detection of CD56 positivity at the time of diagnosis and early stage disease according to the ISS classification ($p = 0.01$). When hemogram and biochemical parameters were examined separately, it was shown that creatinine was numerically significantly lower in CD56 and C117 positive patient groups ($p = 0.01$) ($p = 0.04$), but no statistically significant difference was found between the two groups in terms of renal involvement. The median overall survival (OS) duration was 44 months (25.8-62.1) and the 5-year OS rate was 40.2%.

Summary/Conclusion: The results of the study show that, no statistically significant relationship was found between the presence of CD56 expression and OS ($p = 0.404$). In the group with negative CD117 expression, the median OS duration was 50.1 months (32.2-67.7), and the 5-year OS rate was 39.5%. In the group with positive CD117 expression, the median OS was 61.7 months (17.3-106) and the 5-year OS rate was 50%. When looking at the general results, a statistically significant relationship was not found between the presence or absence of CD117 expression and OS ($p: 0.853$).

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