

## THE RETROSPECTIVE ANALYSIS OF SCREENED AND DETAILED COMPLEMENT-DEPENDENT CYTOTOXICITY TEST RESULTS

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In this study, we aimed to analyze and compare the screened and detailed complement-dependent cytotoxicity (CDC) test results. The cadaveric CDC cross-match (XM) results for 2017-2023 were obtained from Bursa Uludag University Faculty of Medicine Tissue Typing Laboratory records. While screening tests had been performed with lymphocytes isolated from lymph nodes (LS) and spleen (SS), detailed tests had been carried out with lymphocytes isolated from only lymph nodes (LD).

Total analyzed CDC-XM tests for LS, SS, and LD were 1048, 1022, and 1048, respectively. Positive result percentages were found as 39.3% for LS, 29.9% for SS, and 40.6% for LD tests. Some SS tests had been performed by sorted T lymphocytes instead of total spleen lymphocytes (n=128). When the SS results were re-evaluated for these sorted T lymphocytes, SS positivity elevated to 38.3%. LS and SS negativity was calculated as 82.4% in the negative LD cases (59.4%). Test specificity was found as 88.0% for LS and 87.0% for SS according to LD results. While LS and SS positivity was detected as 48.1% in the positive LD cases, test sensitivities were calculated as 78.9% and 53.5% for LS and SS, respectively. Also, it was found that SS sensitivity increased to 70.9% when the test was performed with sorted T lymphocytes.

LS and SS test specificities are high, but false positivity is not low. SS sensitivity is lower if it is carried out without sorted cells. This study suggests that performing CDC-XM with sorted cells is more suitable.