C5. THE VALUE OF ANTI-HLA ANTIBODY DETECTION IN STEM CELL TRANSPLANTATION.

R.Caisan, M. Dutescu, L.Ulea, O. Buturca, I.Popescu
National Institute of Hematology and Blood Transfusion CT Nicolau - National HLA Laboratory

Introduction: One of the major factors that contribute to the successful of stem cell transplantation is based on good HLA matching 10/10 compatibility between recipient and the donor. The number of patients, who received HLA mismatched stem cell transplantation significantly increased, including unrelated donors.
Recent studies suggested that the presence of donor specific HLA antibodies (DSA) in patients is associated with graft failure in HLA mismatched stem cell transplant.

Aim: The present study was to demonstrate if it is necessary to have our national strategy for determination of anti HLA antibody in patients who receive a mismatch stem cell transplantation. If the patients are antibody positive is good to avoid donors who possess the target Ag of HLA antibody,

Cazuistry: The authors presents four cases of patients with acute leukemia who are waiting a stem cell transplantation from unrelated donors. All cases had 1 class I mismatch between the recipients and the donor. The sera of the patients were analyzed for class I HLA antibody detection by Luminex bead technology, including mixed beads and single class I beads.

Conclusions: The results demonstrated the all the recipients sera had no donor specific antibody (DSA) against the mismatches of the donor. The authors discussed the possible impact of HLA specific antibody in patients sera.

The future studies try to establish the value of this antibody, as a routine test before transplantation.