

T4. DONOR LYMPHOCYTE INFUSION - THERAPEUTICAL METHOD IN ALLOGENEIC STEM CELL TRANSPLANTATION. FUNDENI EXPERIENCE

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Allogeneic stem cell transplantation is a therapeutic method with curative intent in hematological malignancies, but also in non-malignant illnesses. From the '90 the graft versus leukemia effect is proved as the NK and T lymphocytes action. They could react with major or minor histocompatibility antigens and also with tumor specific antigens. The donor lymphocytes infusion (DLI) could be used as prophylactic or curative cell therapy reinforcing the antileukemic effect of the graft for those who relapsing after transplant.

In our center 79 allogeneic stem cell transplants (64 adults and 15 children) were performed between 2001 and september 2013. Three of them were with unrelated donor stem cells, in collaboration with our Romanian National Stem Cell Registry.

The diagnosis of the 64 adult patients were: 27 AML; 12 ALL; 4 biphenotypic AL; 7 severe aplastic anemias; 5 lymphomas; 4 CML; 2 MMM; 2 CLL and 1 MDS. From these 64 adult cases we had 11 relapses and 2 rejections. We used DLI in 5 cases (in the case of the 2 rejections, 2 AML and 1 ALL).

From these 5 cases were we used DLI, one case were successful. It was a 28 years old female patient with AML2 in CR1, transplanted from her sibling donor with Bu/Cy conditioning. She had an early relapse at 7 months and she received chemo 2+5 with a new complete remission and 2 doses of DLI at 30 days interval. She developed a limited chronic GVHD responsive to Metilprednisolon. Now she is in remission with complete chimerism at 24 months after the second dose of DLI.