

The fourth cord blood transplantation from commercial cord blood bank in Poland.

The recipient of fourth cord blood from commercial cord blood bank in Poland (Polish Stem Cells Bank SA – PBKM SA) was a boy with myelodysplastic syndrome (MDS). In this case the cord blood was collected in April 2008 from 6/6 HLA matched younger brother. Preparation, freezing and storage of CB units was done in PBKM SA in Warsaw.

The conditioning regimen in the boy with MDS was consisted of Treosulfan, Cyclophosphamide and Melfalan. The Graft versus Host Disease (GvHD) prophylaxis consisted of cyclosporine A (CsA) and steroids.

The transplantation was performed: 22nd of January 2009 in Department of Pediatric Hematology and Oncology, Medical University in Lublin.

Patient received $2,2 \times 10^7$ MNC/kg body weight. The number of haematopoietic stem cells was $0,75 \times 10^5$ CD34+/kg patient's body weight.

The neutrophils engrafted at day +28 and platelets at day +34 after transplantation. In boy have not been observed neither toxicities nor infection complications. The donor chimerism after transplantation was 100%.

Today, at the time of writing, 6 months after transplantation, the patient is alive and remains in complete remission and good health condition.