

## **FIRST TWO YEARS EXPERIENCE IN UNRELATED STEM CELL TRANSPLANT AT FUNDENI CLINICAL INSTITUTE.**

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An essential component of allogeneic stem cell transplantation is to identify a human leukocyte antigen (HLA) matched bone marrow donor. For those patients who has transplant indication but without a suitable family sibling donor, the RNDVCSH provide a service to locate a HLA-matched unrelated donor.

Fundeni Clinical Institute started the unrelated transplant program in 2013. This presentation bring into your attention our results within the first two years (july 2013- july 2015). In this period we had 29 unrelated stem cell transplant cases in adult patients. The diagnosis transplanted: AML (9), CML (7), ALL (B, Ph+, biphenotypic) (8), severe aplastic anemia (3) and MDS (2). The median age was 37,7 years (20 – 61). Seventeen patient had myeloablative conditioning with BuCyATG. Fourteen patients had 10/10 HLA-matched donors and 15 had 9/10 mismatched donors (with one allele or one antigen mismatch). The transplant related mortality was 4/29 (13,79%) and one patient died at 5 months after transplant because of relapse. OS=82,7%.

The first 29 cases of unrelated transplants in adult patients is compared with our first 29 cases of sibling transplants (juin 2004 -february 2010), when the diagnosis were: AML (14), CML(1), ALL (B and biphenotypic) (7), SAA (2), MMM (2) and Hodgkin disease (3). The median survival was 30,5 months (11 days -11 years) and 27,5% are long time survivors. TRM was 48,2%.