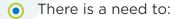


A Comparative Study of BMT Outcomes:

Younger MUD vs. Younger & Older Haploidentical Donors

WHAT?

Comparison of blood or marrow transplant (BMT) outcomes between younger matched unrelated donors (MUD) and younger/older haploidentical (half-matched) donors using reduced intensity conditioning (RIC) and post-transplant cyclophosphamide (PTCy) graft-versus-host disease (GVHD) prevention



- Further understand and improve the outcomes of BMT for acute myeloid leukemia (AML)
- Understand the impact of donor type and donor age on BMT outcomes in patients with AML
- Guide the selection of donors for BMT using PTCy GVHD prevention

WHY?

WHEN?

Patients underwent BMT from 2011-2018

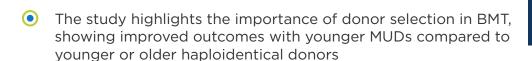
- 775 AML patients:
 - 84 with a younger MUD (under 35 years old)
 - 302 with a younger haploidentical donor (under 35 years old)
 - 389 with an older haploidentical donor (35 years old or older)

WHO?

RESULTS

- BMT with a younger MUD showed better overall survival compared to both younger and older haploidentical donor BMT
- Both younger and older haploidentical donor BMT were associated with a higher risk of non-relapse mortality (NRM)
- Older haploidentical donor BMT was associated with a higher risk for acute GVHD compared to the younger MUD group
- Relapse rates and chronic GVHD were not significantly different between the different donor groups

Read the BMT Outcomes Donor Age study results in Transplantation and Cellular Therapy (DOI: 10.1016/j.jtct.2023.03.028)



IMPACT

 A young MUD may be preferred over a younger haploidentical donor, and a MUD should be chosen when available

FROM THE EXPERTS

"With a rapidly increasing rate of haploidentical hematopoietic cell transplantations and growing use of HLA-matched unrelated donor transplantations using post-transplantation cyclophosphamide for GVHD prophylaxis, it is crucial to understand how these two platforms compare after accounting for factors including donor age, which is an independent significant predictor of outcomes."





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