Continuing Medical Education (CME) Questions

NMDP/CIBMTR donor selection guidelines

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Dehn J, Spellman S, Hurley CK, Shaw BE, Barker JN, Burns LJ, Confer DL, Eapen M, Fernandez-Vina M, Hartzman R, Maiers M, Marino SR, Mueller C, Perales M-A, Rajalingam R, Pidala J. Selection of unrelated donors and cord blood units for hematopoietic cell transplantation: guidelines from the NMDP/CIBMTR. *Blood.* 2019;134(12):924-934.

- 1. Your patient is a 36-year-old man with therapy-related leukemia for whom hematopoietic cell transplantation (HCT) from unrelated adult donors or umbilical cord blood is being considered. According to the updated evidence-based National Marrow Donor Program (NMDP)/Center for International Blood and Marrow Transplant Research (CIBMTR) guidelines by Dehn and colleagues, which of the following statements about the selection of adult unrelated donors for HCT is correct?
 - □ When 8/8 HLA-matched unrelated donors are unavailable, only related haploidentical donors should be used
 - □ For HCT utilizing adult unrelated donors and conventional graft-versus-host disease prophylaxis, sufficient high-resolution donor-recipient HLA match is of primary importance
 - □ When no 8/8, but multiple 7/8, unrelated donors are available, HLA-C*03:04 vs HLA-C*03:03 is the only mismatch for which outcomes posttransplant are worse
 - □ When the patient has donor-specific antibody, DQA1 and DPA1 allotype mismatches can be disregarded
- 2. According to the updated evidence-based NMDP/CIBMTR guidelines by Dehn and colleagues, which of the following statements about the selection of umbilical cord blood units for HCT is correct?
 - Optimal unit selection for cord blood transplantation (CBT) requires consideration of unit quality, cell dose, and HLA match, with non-HLA factors as critical as HLA matching
 - □ For a traditional match, donor-recipient HLA match must be ≥5/6 HLA-A,-B antigen and HLA-DRB1 high-resolution
 - \Box The minimum total nucleated cell dose per kilogram for single-unit CBT using cryopreserved cells is \geq 1.5 \times 10⁷/kg and for CD34⁺ cells is \geq 1 \times 10⁵/kg
 - □ In terms of bank practices, use of red blood cell–replete units is mandatory
- 3. According to the updated evidence-based NMDP/CIBMTR guidelines by Dehn and colleagues, which of the following statements about adult donor search, optimal HLA donor-recipient matching criteria, and other factors affecting graft selection is correct?
 - □ Search should be based only on high-resolution HLA-A, HLA-B, HLA-C, HLA-DRB1, and HLA-DPB1 HLA typing
 - □ The NMDP search algorithm, HapLogic, does not consider frequencies of alleles and haplotypes defined by ethnic populations
 - □ The optimal number of potential donors to select from the search report for additional HLA typing should be the same for each patient
 - □ Transplant centers should set an acceptable time limit for donor search while initiating concurrent activities for other acceptable options (eg, cord blood or mismatched related or unrelated donor)

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