

DONOR-RECIPIENT HISTOCOMPATIBILITY

Inspector Instructions:

 <p>READ</p>	<ul style="list-style-type: none"> Sampling of donor recipient histocompatibility policies and procedures Sampling of cell typing records Staffing/on call schedule
 <p>ASK</p>	<ul style="list-style-type: none"> What evidence, from family studies, does your laboratory use to support haplotype or other genetic reporting conclusions (four distinct haplotypes must be identified in a pedigree analysis for haplotype assignment)?

HSC.38845 HLA Identity Confirmation for Hematopoietic Progenitor Cell Transplantation **Phase II**



HLA identity is confirmed in both donor and recipient hematopoietic progenitor cell transplantation.

NOTE: For laboratories performing typing to support hematopoietic progenitor cell (HPC) transplants facilitated by NMDP, NMDP policy for patient typing and confirmatory typing of unrelated donors must be followed.

For laboratories performing typing to support HPC transplantation, repeat HLA typing of the transplant patient using a new sample is performed to verify the individual's HLA type prior to final donor selection for both related and unrelated transplants.

Similarly, repeat HLA typing of the related HPC donor is performed using a new sample prior to HPC collection. For purposes of verification testing, results from donor registry or another laboratory is acceptable as the first of the two samples required. For example, lower resolution is acceptable for verifying the original high-resolution typing of recipients and related donors.

Evidence of Compliance:

- ✓ Records of testing to confirm HLA identity

REFERENCES

- 1) Nunes E., et al. Definitions of histocompatibility typing terms: Harmonization of Histocompatibility Typing Terms Working Group. *Hum Immunol*. 2011; 72(12):1214-6; *Blood*. 2011; 118:e180-3
- 2) National Marrow Donor Program. NMDP Policy for HLA Confirmatory Typing Requirements for Unrelated Adult Donors and HLA Typing Requirement for Patients. Document Number: P00079. Effective date: February 27, 2021.

HSC.39032 Haplotype Reporting **Phase II**



Haplotype assignments are supported by sufficient evidence.

NOTE: When reporting haplotypes, homozygosity, blanks, recombination, or other genetic information, there must be sufficient evidence from family studies to support such conclusions. If probable haplotypes are reported, the report must indicate clearly that they are "probable". Reliable haplotype frequencies of the appropriate ethnic groups must be used.

If haplotypes are assigned, this can be done by testing both the parents or clearly defined segregation of the four haplotypes or may be based upon population frequencies. Haplotype assignments based on population frequency, must be clearly stated on the report and include the relevant source (including the version) or reference.