

HSC.39219 Donor Typing for Solid Organ Transplant Phase I

Donor materials obtained pre-organ recovery are used whenever possible for donor HLA typing and recipient serum screening.

NOTE: Organ donors should be HLA-typed from any acceptable source of viable lymphocytes. Whenever possible, pre-organ recovery HLA testing and screening crossmatches should be done.

Evidence of Compliance:

- ✓ Record of typing and screening on pre-organ donor materials, when possible

HSC.39406 Donor and Recipient HLA Typing Phase II

The HLA laboratory types all potential recipients and donors referred to the laboratory, and follows policies defining when HLA retyping and redefinition are required.

Evidence of Compliance:

- ✓ Records of all HLA typing

REFERENCES

- 1) Department of Health and Human Services, Centers for Medicare and Medicaid Services. Clinical laboratory improvement amendments of 1988; final rule. *Fed Register*. 2003(Jan 24):7170 [42CFR493.1278]

HSC.39410 HLA Typing Post Transfusion Phase II

The laboratory has a defined process for actions to be taken when a donor or patient cannot be reliably HLA typed after transfusion.

NOTE: Transfusions may result in detection of additional HLA antigens and/or alleles in donor or patient samples. Alternative source typing material (eg, buccal swab, lymph node or spleen) may be considered if more than two antigens are detected for a locus or alleles cannot be discriminated. Typing must be performed at the level of resolution required for the transplant service being supported.

HSC.39415 HLA Typing Level Phase II

The laboratory performs HLA typing at least to the minimal resolution appropriate for the individual transplant program supported (eg, 2-field typing for hematopoietic progenitor cell transplantation, when appropriate, and the level of serological splits for solid organ transplantation).

Evidence of Compliance:

- ✓ Patient reports and typing records

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) Organ Procurement and Transplantation Network (OPTN) Policies. Policy 4: Histocompatibility. US Department of Health and Human Services. Effective Date: December 5, 2022.
- 3) 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.

****REVISED** 12/26/2024**

HSC.39430 Written Agreements Phase II

There are written agreements for histocompatibility testing with each transplant program, organ procurement organization (OPO), or donor registry served by the laboratory, unless clinical urgency prevents such an agreement.