



Local clinical protocol for HSCT with a related donor compatibility v.2

1. Sampling.

The Clinical Department ensures that:

- samples are taken by qualified and authorized personnel in accordance with regulations.
- the pre-analytical conditions comply with the procedures described in the sampling manual of the performing LBM.
- each sample is accompanied by the examination request form drawn up by the executing LBM, duly completed.

Failure to comply with these requirements will result in sample rejection

The recipient's blood must not be collected during the blast phase.

2. Typing

For both recipient and selected donor, 2 HLA typings are mandatory, obtained from two separate samples, prior to transplantation. The second typing confirms the first and the patient's identity.

One typing will be performed by NGS to obtain high-resolution typing on HLA loci A, B, C, DRB1 (+DRB3/4/5), DQA1, DQB1, DPA1 and DPB1.

The other typing will be performed with a low-resolution test on the HLA A, B, DRB1, and DQB1 loci. This technique does not allow conclusions about shared haplotypes.

The donor must be typed at all loci for which the recipient is immune, at the resolution required to conclude on the presence of potential preformed DSAs.

The laboratory can conclude on the HLA compatibility between the recipient and the donor and recipient if both typings are available.



3. Patient immunological records, HLA immunization, histocompatibility tests

The CERBA laboratory does not carry out research/identification of anti-HLA antibodies, nor does it perform real or virtual cross-match tests.

The patient's immunological record is kept by the clinical department.

The transplant physician assumes responsibility for the transplant, with the complete histocompatibility profile established for the recipient.

4. References.

EFI standards for histocompatibility and immunogenetics testing, current version.

Definition and standardization of histocompatibility assessments according to patient pathway and donor type: recommendations from the Société francophone de greffe de moelle et de thérapie cellulaire (SFGM-TC) and the Société Francophone d'Histocompatibilité et immunogénétique (SFHI), 2021

Date and signatures:

CERBA

TRANSPLANT DEPARTMENT
(department, hospital, city, country)
TRANSPLANT DEPARTMENT SIGNATORY
(surname first name qualification)