

Criteria to access a CSCR donor

International Transplant Centres

- must be registered with appropriate national authority as allogeneic transplant centre
- must be registered with the appropriate national or international transplant outcome organisation – EBMT, CIBMTR or NMDP
- patient must be informed on indications for transplant and their results on the transplant procedure and must sign informed consent

Clinical indication for transplant

- Patient diagnose should meet prevailing clinical practice – for reference see the EBMT recommendations.

Preliminary search request must include

- patient's
- given name and surname
 - date of birth
 - diagnosis
 - weight
 - sex
 - HLA typing results – min. A, B, DRB1 * low resolution
 - contact information of the requesting institution

Donor verification typing (VT)

- TC must provide CSCR with minimum **A,B * LR and DRB1*HR** patient's HLA typing.
- Requested volume of blood samples shall not exceed 50 ml
 - o volume and number of tubes may differ from the request as the size and type of tubes used by our DC can vary
 - o sample arrival date is advised 1-2 days before the sample delivery whenever possible
 - o IDM's are automatically performed and send within a week after blood drawing
- TC should send sample testing result to CSCR within 2 months after the blood samples reception.

Stem cells donation

- TC must send completed Formal request and collection forms to CSCR.
- selected donor should be **minimum 8 of 10** patient match from **A, B, C, DRB1, DQB1*HR loci**
- requested volume of pre-collection samples shall not exceed 50 ml
- BM volume requested shall not exceed 20ml/kg donor weight
- Maximum volume BM collected is 1500 ml
- PBSC request shall not exceed 5x 10⁶/kg patient's weight. Higher request must be explained and reasoned and it will be checked by CSCR medical director or Ethical committee.
 - o If after first apheresis a CD34+ cell count of 95% of the requested cell count is not obtained, the second apheresis will be undertaken only when donor's condition allows it.

Research/Clinical studies

Requesting TC must submit:

- request from the investigator for the donor enrolment
- IRB approval
- study protocol
- information for participating donor
- Informed consent form

Donor must be properly informed on the nature of research and must sign informed consent providing the requirements for testing or collection beyond standard are involved.

Subsequent Donation Requests

Donors can donate only for the patient whom they already donated their first graft.

Minimum time between the first and second donation*

		First graft	
		BM	PBSC
Second graft	BM	Not allowed	1 – 3 months**
	PBSC	1 – 3 months **	Not allowed
	DLI (unstimulated leukapheresis)	1 – 3 months **	1 – 3 months **

Minimum time between the second and third donation *

		Second graft		
		BM	PBSC	DLI
Third graft	BM	Not allowed	Not allowed	6 months
	PBSC	Not allowed	Not allowed	6 months
	DLI	6 months	6 months	6 months

* Whether donor will be cleared for subsequent donation depends solely on collection centre physician decision with respect to donor's current health assessment.

**Optimal time interval from the first donation would be 3 months, however, this period may be shortened given the patient's urgent need of graft and donor's health condition. Minimum time between donations must be at least 1 month.

Cord blood unit

Request for extended typing

- typing can be performed by Czech EFI accredited laboratory upon request
- DNA sample (**up to 10 ng of DNA**) in ambient temperature may be sent (shipment on dry ice possible upon request)
- CSCR shall be advised of the typing results within 2 months period.

IDM testing

- Other samples available for shipment for testing of IDM which are not done by Czech Cord Blood bank: maternal plasma, maternal full blood

Confirmatory typing

- CSCR lab performs A, B, DRB1*LR confirmatory typing from the contiguous segment after receipt of formal recruitment request – usually 3 days before unit shipment.

Unit shipment

TC must send completed [F049 Cord blood unit request](#) form or its equivalent to CSCR

- selected unit should be minimum **4 of 6** patient match from **A, B*LR and DRB1* HR loci**

Reservation procedure

Extended typing

- RS status until the results are sent to requesting institution /max. 6 weeks
- RS status after typing is held for 14 days

Verification typing (CT)

Donor

- RS status from reception request until blood is drawn / max. 1 month
- RS status for 2 months after blood samples drawing
- can be prolonged upon request from TC /registry of patient

CBU

- RS status for 2 months after DNA sample shipment / CT testing in the local laboratory
- can be prolonged upon request from TC / registry of patient