



日本骨髓バンク

**JAPAN  
MARROW  
DONOR  
PROGRAM**

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## About JMDP

The Japan Marrow Donor Program (JMDP) was established in 1991 with a cooperation of the Japanese Red Cross Society under the Japanese government initiative and is accredited by the World Marrow Donor Association (WMDA).

### Patient information

- Unusual diagnosis will be reviewed by the JMDP Committee for TC/Recipient Issues.
- Depending on patient's disease, the Committee for TC/Recipient Issues determines whether it is acceptable or not.
- JMDP deals with the data based on the national laws regarding protection for Individual Information.

### **[Note]**

- ✓ We have suspended Cord blood search for overseas patients. Since Japanese Act on the Protection of Personal Information was revised, we are not allowed to offer information like HLA data, blood type etc. to overseas without donors' consent.

## DONOR COORDINATION

### Preliminary Search

- After receiving a preliminary search request, we fax the search results in 0-1 business day.
- An updated search report is available upon request.
- When a registry sends a preliminary search request to JMDP for the first time, the registry might be asked to provide with some information such as transplant activity and qualification.

### Donor activation / Confirmatory Typing (=CT) request

- Donors aged between 20- 54 years may be searched for the patients.
- TCs are allowed to request up to 10 JMDP donors for the first time only. Any subsequent donor requests will not be filled until the active donor number falls below 5 donors. When the number of active donors falls below 5 donors, new donor requests may be filled but only up to 5 total donors.
- TCs should send a CT request form (any form is acceptable) with their CT instruction. The total amount of blood samples does not exceed 50mls.

- The purpose of use of donor's blood is limited to inspection necessary for transplant. Culture and amplification is not accepted.
- HLA typing requests before CT are not acceptable.
- JMDP performs blood tests including infectious disease markers. We reserve the right to decide the eligibility of a donor to donate. If a donor is found to be ineligible, he/she will be released, although the CT fee is charged. JMDP does not disclose the reason why the donor is judged to be ineligible.
- HTLVII testing is not undertaken since Japanese inspection organizations do not handle it. If a TC needs it, JMDP will provide blood samples of the donor to the TC to perform the test.
- If the donor is eligible, JMDP will send the CT results to the registry by fax.
- A donor will be released if he/she is not selected as a workup donor within 40 days after the CT. If a TC has any reasons, they can hold the donor for another 60 days.
- When a donor is released once, the donor is never listed on the search results. TC should request re-activation of the donor.

### Workup

- Select a donor for work-up with preferred type of stem cells.
- Specify the first stem cell choice (PBSC or BM).
- Specify the second stem cell choice if you intent to proceed to transplant with the requested donor regardless of the stem cell product. Otherwise select none.
- Once the work-up proceeds, you cannot change the type of stem cell.
- Any request for the number of cell is not accepted.

### < Bone Marrow collection >

- To obtain standard number of cells, CCs usually estimate marrow volume to be aspirated as follows:

$$\text{Recipient weight (kg)} \times 15\text{ml} \quad \text{※A}$$

- To assure donor's safety, CCs do not collect marrow exceeding the maximum marrow volume defined by the following calculations:

Donor's Hb value at the PE	< 12.5 g/dl	---	donor weight x 12 ml/kg	}	※B
	< 13.0 g/dl	---	donor weight x 15 ml/kg		
	< 13.5 g/dl	---	donor weight x 18 ml/kg		
	≥ 13.5 g/dl	---	donor weight x 20 ml/kg		

- After comparing ※A and ※B, CCs decide to collect lower volume of them but not exceeding 1200mls.
- Note that if the Hb values less than 12.0 g/dl for female or 13.0 g/dl for male, they are ineligible for donation.

< PBSC collection >

- Once a collection date is agreed upon by all parties, you are required to inform the first day of conditioning as soon as possible.
- Inform whether the conditioning has started as scheduled. The dose of G-CSF will be given to the donor after the confirmation of preparative regimen being started.

Volume limit for processed blood

Target of processed blood volume / day ----- Donor weight (kg) × 200ml

Maximum of processed blood volume / day ---- Donor weight (kg) × 250ml

- JMDP will not process donor's blood more than the limit described above.
- If more than  $2 \times 10^6$ /patient weight (kg) PBSCs are collected by the first apheresis, no further apheresis is performed regardless of the number of CD34+ cell obtained.
- If the number of CD34+ cells is lower than  $2 \times 10^6$ /patient weight (kg) by the first apheresis, apheresis will be repeated on the next day.
- Not all apheresis centers (AC) count the number of CD34+ cells with procedure regulated by ICH (International Council for Harmonization of Technical Requirements for Pharmaceuticals for Human Use).
- Even in case of failed mobilization, a switch to a bone marrow collection is not acceptable.

<Others>

- When you have a request regarding an anticoagulant, storage temperature, etc., please let us know. We will inform the CC/AC of the request, and ask whether that would be possible or not.

**Information Session**

- The donor's consent for marrow donation is confirmed at the Information Session (IS).
- Not only the donor but also his/her family member has to give their consent.

**Peripheral Blood Samples**

This is to make sure all donor registries are aware of the JMDP policy below on peripheral blood sample collection after a donor is selected for donation.

- TC may request peripheral blood samples only for blood and HLA types and cross match, infectious disease markers, chimerism analysis. The samples are collected on the days of physical examination and harvest up to 20ml each. However, any requests for additional blood samples from JMDP donors shall not be accepted after the day of collection.

**Physical Examination (PE)**

- The purpose of use of donor's blood is limited to inspection necessary for transplant. Culture and amplification is not accepted.

- After the donor clearance, the following information will be sent to the registry.
  - The PE results including infectious disease markers
  - The collection center information.

### **Transportation of Bone Marrow / PBSC**

- A TC is responsible for the product transportation.

### **DLI**

- T-cells may be provided as second donation if the JMDP Committee for TC/Recipient Issues accepts the request.

### **Communication between a recipient and a donor**

- JMDP does NOT allow direct communication between a recipient and a donor. Only their anonymous letter exchanges through registries are permitted twice within two years after transplant. Please note that any gifts are not acceptable.

### **Donor coordination suspension**

- If you wish to suspend the donor coordination temporarily, JMDP will hold for up to 60 days.

### **Fee Schedule**

- In any phases, a donor might be released due to any reasons. Even if a donor is released, the incurred fee will be charged to the registry.

## **Post-Transplant Communications**

- During the two years following transplant, we allow only anonymous letter exchanges twice, which are passed through JMDP.
- The information that may be written in the letter is each sex and generation.
- Direct contact or gift exchange is not allowed.