



**J**APAN  
**M**ARROW  
**D**ONOR  
**P**ROGRAM

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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. Since the first unrelated bone marrow transplant in 1993, over 9,500 transplants have been performed. As of 2008/Jun, the number of registered donors is over 313,000 and these donors have A/B/DR serological or DNA data.

JMDP, which is a participating registry in Bone Marrow Donors Worldwide and accredited by the World Marrow Donor Association, cooperates with lots of foreign registries to save blood diseases patients in the world.

### **Donor information**

- Volunteer donors aged between 18- 54 years who meet the JMDP criteria.
- The donors aged between 20- 55 years may be searched for the patients.
- All donors have A/B/DR serological data. (Some of them have DNA typing data.)

### **Patient information**

- There are no criteria except the diagnosis. The diagnosis has to be included in the JMDP acceptable diseases.
- Unusual request will be reviewed by the JMDP Medical Committee.
- JMDP treats the data based on the national laws regarding protection for Individual Information.

### ***[Important]***

- ✓ **CORD BLOOD:** JMDP handles only Bone Marrow donors, not Cord Blood. If you are interested in Japanese cord blood, please contact directly the Japanese Cord Blood Bank Network. JMDP can forward a preliminary search request form to JCBBN.
- ✓ **PERIPHERAL BLOOD STEM CELL (PBSC):** JMDP doesn't provide PBSC. PBSC cannot be chosen as a primary product, nor as a second product in case of insufficient engraftment after bone marrow transplant.
- ✓ **DONOR LYMPHOCYTE INFUSION (DLI):** DLI can be donated as a second product, only when 1) the JMDP medical committee accepts it and 2) the donor in a good condition (at least one month passed since the first donation) agrees to the donation.

# DONOR COORDINATION

## Preliminary Search

- Only foreign registries or transplant centers can send a preliminary search request to JMDP. It takes 0-1 day to send the result back by fax.

### *[Note]*

- ✓ When a Transplant Center (TC) directly (=not through a registry) sends a preliminary search request to JMDP for the first time, the TC might be asked to provide JMDP with some information on TC (such as transplant activity or qualification).
- ✓ If you cancel a search, you have to send a preliminary search request form again. Then a new JMDP patient ID is assigned for the second request (registration). Activation fee will be charged only one time for the each patient.

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

- The activation fee will be charged when the first donor is activated.
- TC should send CT request form with their CT instruction. The total amount of blood samples does not exceed 50mls.
- JMDP activates up to 5 donors at the same time.
- After donor activation, JMDP starts to arrange the shipment of donor's blood samples.
- JMDP performs blood tests including infectious disease markers. JMDP reserves the right to decide the eligibility of a potential 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(s) why the donor is judged to be ineligible.
- If the donor is eligible, JMDP will send the CT result back to the registry by fax within 7 days after CT appointment date.
- A Donor will be released if he/she is not selected as a workup donor within 60 days after the CT appointment.
- When a donor is released once, the donor has never listed on the rerun result. So TC should request to re-activate a donor.

### *[Note]*

- ✓ JMDP does NOT perform donor's High Resolution DNA typing before CT. But may ship blood samples for the typing.

## Workup

### *[Important]*

The collection volume of bone marrow is determined based on the donor's weight/Hb value and the patient's weight at the time of Physical Examination (=PE). And JMDP does not permit to collect bone marrow exceeding 1200mls. The details are shown below:

- A) calculate the volume of patient weight (kg) x 15ml/kg
- B) calculate the maximum collection volume for the donor by using the donor 's Hb value at the time of PE

If the Hb value at the time of PE < 12.5 g/dl ---- donor weight x 12 ml/kg  
< 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

\* Note that if the Hb values less than 12.0 g/dl for female or 13.0 g/dl for male, they are not eligible for marrow donation.

- C) Comparing A) with B), and the lower volume is selected as the maximum volume of bone marrow collected. Please note that CCs do not collect bone marrow exceeding this value because of ensuring donor's well being. This means the collection volume might be less than those of the TC requested.

Example 1;

Patient's weight: 30kg---30 kg x 15 ml/kg = 450mls---A)

Donor's weight: 45kg, Hb.12.8 g/dl---45 kg x 15 ml/kg = 675mls---B)

JMDP CC collects 450mls for this case.

Example 2;

Patient's weight: 80kg---80 kg x 15 ml/kg = 1200mls---A)

Donor's weight: 60kg, Hb.13.4 g/dl---60kg x 18 ml/kg = 1080mls---B)

JMDP CC collects 1080mls for this case.

## Information Session

- The donor's consent for marrow donation is confirmed at the Information Session (=IS).

### *[Note]*

- ✓ Not only the donor but also his/her family member has to give a consent.
- ✓ Usually, the IS and the PE are not scheduled on the same day.

### **Physical Examination (PE)**

- PE is usually scheduled within 4-6 weeks before the collection date.
- At the donor clearance, the following information will be sent to the registry.
  - The PE results including infectious disease markers
  - The collection center information, the collection date/time

### **Transportation of marrow**

- The TC is responsible for the marrow transportation from CC.
- A JMDP staff will attend a courier.

### **Post Transplant Request**

- Please note that JMDP does NOT provide the PBSC nor bone marrow from the same donor after the first donation. After 1 year has passed since the first donation, TC can request only BM from the same donor.
- DLI may be provided from JMDP if;
  - The JMDP Medical Committee accepts the request
  - The donor is in a good condition and gives a consent
- JMDP does NOT allow direct communication between a recipient and a donor. Only their anonymous letter exchanges through registries are permitted twice within one year after transplant. Please note that any gifts including photos and money are not acceptable.

### **Donor search suspension procedures**

- If you wish to suspend the coordination temporarily for example, due to a deterioration of patient condition, JMDP will hold for up to 90 days. The registry has to send a free format document describing the reason for the request.
- TC can not choose each donor for suspension.

### **Fee Schedule**

- The latest JMDP fee schedule is attached to this information. It is subject to change, therefore, please refer to it whenever required.
- 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.

The search request for diseases that are not listed this Appendix shall be reviewed by the Medical Committee of the JMDP to determine whether or not it can be accepted.

#### **1. Leukemia**

Acute myeloid leukemia (AML)

- Acute lymphoblastic leukemia (ALL)
- Chronic myelogenous leukemia (CML)
- Chronic lymphocytic leukemia (CLL)
- Other leukemias
- 2. Myeloproliferative disorders (MPD)
- 3. Myelodysplastic syndrome (MDS)
- 4. Adult T-cell leukemia/lymphoma (ATL)
- 5. Multiple myeloma (MM)
- 6. Lymphoma
  - Non-Hodgkin's lymphoma
  - Hodgkin's lymphoma
- 7. Neuroblastoma
- 8. Marrow failure
  - Aplastic anemia (AA)
  - Pure red cell aplasia (PRCA)
  - Paroxysmal nocturnal hemoglobinuria (PNH)
  - Congenital marrow failures
- 9. Primary immune deficiencies
- 10. Congenital metabolic disorders
- 11. Hemophagocytic syndrome (HPS)/Langerhans cell histiocytosis (LCH)

***[Revision History]***

- October 19, 2004 First version
- March 24, 2005 Minor corrections
- October 20, 2006 Changed Policy
- January 25, 2008 Changed Policy
- August 1, 2008 Minor Corrections