



**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. Since the first unrelated bone marrow transplant in 1993, over 20,700 transplants have been performed. As of 2017/May, the number of registered donors is over 472,000 and these donors have A/B/DR serological or DNA data. JMDP, which is a participating registry in Bone Marrow Donors Worldwide(BMDW) and certificated by the World Marrow Donor Association(WMDA), cooperates with lots of foreign registries to save blood diseases patients in the world.

Donor information

- Volunteer adult 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. (The donors who have registered recently have A/B/C/DR data).

Patient information

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

[Note]

- ✓ 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.
- ✓ 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 (completion of follow-up is required).
- ✓ Average from preliminary search to transplant is 142 days.

DONOR COORDINATION

Preliminary Search

- Only foreign registries or transplant centers can send a preliminary search request to JMDP. Any forms are acceptable. It takes 0-1 day to send the results back by fax.
- When a transplant Center (TC) directly (=not through a registry) sends a preliminary

search request to JMDP for the first time, TC might be asked to provide with some information on TC (such as transplant activity and qualification).

Donor activation / Confirmatory Typing (=CT) request

- The activation fee will be charged when the first donor is activated.
- JMDP activates up to 5 donors at the same time.
- TC should send CT request form (any form is acceptable) with their CT instruction. The total amount of blood samples does not exceed 50mls.
- 5 donors can be kept at the same time to proceed.
- After activation, JMDP starts to arrange the shipment of donor's blood samples.
- HLA typing tests 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(s) why the donor is judged to be ineligible.
- HTLVII testing is not undertaken since Japanese inspection organizations do not cover this inspection item. If TC needs this inspection item, JMDP will provide blood sample from the potential donor, and ask TC to undertake the test.
- If the donor is eligible, JMDP will send the CT results back to the registry by fax within 7days after CT date.
- A donor will be released if he/she is not selected as a workup donor within 60 days after the CT appointment. If TC has any medical reasons, they can hold the donor for another 90days.
- When a donor is released once, the donor has never listed on the rerun results. TC should request to re-activate a released donor.

Workup

- 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). 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 collection center(CC) does not collect bone marrow exceeding this value because of ensuring donor's safety. 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)

CC collects 450mls in 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---60kgx18 ml/kg = 1080mls---B)

CC collects 1080mls in this case.

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.

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 Bone Marrow

- The TC is responsible for bone marrow transportation from CC.
- A JMDP staff may attend a courier if it is necessary.

Post-Transplant Request

- TC can request BM only from the same donor after 1 year of the first donation.
- Donors are allowed to donate two times in total Bone Marrow and PBSC.
- The number of PBSC donation is limited to once until a sufficient data of long term safety of G-CSF is collected.

		The number of Bone Marrow donation		
		0	1	2
The number of PBSC donation	0	Possible to donate BM and PBSC.	Possible to donate BM or PBSC.	×
	1	Possible to donate BM only.	×	×
	2	×	×	×

- Donors are not allowed to donate BM or PBSC after their first donation.
- The number of Leukocyte donation for DLI is limited twice no matter how many days past after BM or PBSC donation.

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 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.

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

February 3, 2012 Minor Corrections

October 31, 2012 Minor Corrections

May 30, 2017 Minor Corrections