The Donor-Patient Journey

Patient

Diagnosis

Someone somewhere in the world is diagnosed with blood cancer

every 27 seconds

Treatment

Treatment depending on disease

e.g. chemo, radiation, additional antibody therapy if needed

If doctors decide on a blood stem cell transplant **Typing**

Search for donor within family

1 2 3

One in three patients finds a donor in their own family

Search for unrelated donor

Search unit at patient's hospital launches search for donor in national and international registries

Confirmatory typing

Search unit requests confirmatory typing of selected possible matches from DKMS

Not every patient finds a matching donor

DKMS processes more than 60,000 confirmatory typing requests every year

Hospital lab verifies HLA match

Finally patient's doctor selects donor

Lab

Successful donor search

Collection method is decided

Hospital requests donor workup and cell collection

Preparation for transplant

Conditioning of patient: preliminary treatment with chemotherapy or radiation

Transplantation

Blood stem cells are transplanted via infusion

Hospital

Patient follow-up

Hospital updates DKMS on patient's progress for 2 years after donation

(possible in most countries)

Patient is informed of matching donor

Over 42.5 million registered donors worldwide

12.5 million with **DKMS**

30 million registered with **other donor centers**

International **Donor Registry**

Possible matches

Identification of possible donors matching the patient

Donor-patient match

More than 75 %

of all donations from DKMS donors are transported to patients abroad

Donor-patient contact

If permitted in the patient's country, patient and donor can have anonymous contact

Donor

Communications

DKMS educates public on stem cell donation and encourages them to register

Donor registration

Registration includes donor eligibility check and consent, and submission of sample for HLA typing

Buccal swabs

Donor consent

Typing

HLA genotyping

Donor data entry

Data administration

Maintenance and management of donor data

Donors register ...

... online on the DKMS website

or

... at a registration event

Lab

Donor Center

Confirmatory typing

DKMS CT Coordinator contacts donor to check health status and willingness to donate

- Donor is briefed on donation process
- Health questionnaire
- Family doctor takes blood sample

Workup

DKMS Workup Case Manager immediately notifies donor of match

- Detailed information on donation procedure
- Dates are set for physical examination and donation
- Travel arrangements are made for donor

Collection Center clears donor for donation

Donation

Preliminary examination

Collection Center*

Peripheral blood stem cell donation

or

Bone marrow donation**

Transport

Stem cell donation prepared for transport and picked up by specialised courier services

Donor follow-up

- Regular health checks after donation
- Support for donors whose patient has deceased
- Donor feedback

First face-to-face meeting

After anonymity period: release of personal data if donor and patient agree

In most countries, donor and patient are allowed to meet after two years

*With the donor's consent, surplus stem cells may be collected for cryopreservation****

DKMS Life Science Lab
Dresden, Germany

The world's leading HLA typing laboratory according to the latest scientific standards

DKMS Donor Centers
in Chile, Germany, India, Poland, South Africa, UK, USA

DKMS Donor Centers' primary tasks are to educate, register, and take care of donors, and manage medical donor requests

DKMS Collection Centers
Dresden and Cologne (Germany), Santiago de Chile (Chile)

Collection Centers ensure the safety and wellbeing of donors and the quality of donations

DKMS Stem Cell Bank
Dresden, Germany

The first facility in the world to provide cryopreserved peripheral blood stem cells to adult patients across the globe

**All DKMS entities collaborate with certified collection centers in addition to their own facilities*

***Not available in India and South Africa*

****Only in Germany*

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