

## **November is National Marrow Awareness Month**

*You Can Be A Hero!!*

### **What is Marrow?**

Marrow is the spongy material that is found inside the bones, and it contains stem cells. These cells are in the very early stages of development and will eventually become white blood cells, red blood cells, and platelets. White blood cells have several functions, including fighting infection. Red blood cells carry oxygen to all the other cells in the body, and platelets take part in forming clots after bleeding.

### **Why is Marrow Donation Needed?**

Patients with life-threatening diseases such as leukemia, lymphoma, certain types of anemia, and other conditions are sometimes in need of a “bone marrow transplant” if they are not responding to their standard treatment. In some cases, the patient’s own stem cells are removed from the blood and given back to the patient after receiving high doses of chemotherapy. For some diseases, however, the patient needs to have a donor provide the stem cells. The donor can be a relative (related donor), someone unknown to the patient (unrelated donor), or umbilical cord blood cells. The purpose of National Marrow Awareness Month is to encourage people who are in good health to volunteer to be placed in a special registry coordinated by The National Marrow Donor Program (NMDP). The more volunteers in the registry, the more patients who can be helped. By volunteering to become a donor, you offer patients a gift of life.

### **What is the Registry?**

This is a list of potential volunteer donors that is kept by the NMDP. At present, there are more than 5 million potential donors. The Registry is able to keep track of all three sources of stem cells: marrow, peripheral blood, and umbilical cord blood. If a patient needs a stem cell transplant, the patient’s special stem cell type (human leukocyte antigen [HLA] or tissue type) is keyed into the Registry that searches for a potential match. Because a patient’s tissue type is inherited, it is important to have donors of all ethnic and racial groups.

### **How to Join the Registry?**

Anyone of any race, gender, or ethnic group can join, as long as they fall into the allowed age range and meet the health guidelines of the NMDP. You can contact the donor sites listed below. The donor site will make arrangements to have DNA samples (blood or cheek swabs) taken. Your tissue type is identified, and this information is put into the Registry.

### **What is Involved When You Decide to Join the Registry?**

There are several things to keep in mind if you decide to become a potential donor. By joining the Registry, you make a commitment to be a potential donor for any patient that your tissue matches.

Sometimes people want to donate just for one person that needs a transplant and for no one else. In this case, you would need to contact the patient's transplant center.

Other things to consider when joining the registry are:

- Respond quickly if you are ever contacted as a match.
- Consider donating for any person who matches your tissue type.
- Stay in touch with your donor center or the NMDP to advise them of address changes, significant changes in health, or if you no longer wish to be a donor.

## **What's Next?**

If your tissue type matches that of a patient, you will be called for more detailed blood work. If these results show that you are a good match for a patient, the transplant center will make arrangements for your stem cell donation. This can be done in two ways:

- **Peripheral blood stem cells:** You will receive one injection daily for 4-5 days to increase the number of your stem cells. These stem cells are then collected by a process called apheresis. Your blood is slowly removed, drawn through the apheresis machine where the stem cells are collected, then your blood is returned to your body.
- **Bone marrow:** After anesthesia is started, the liquid bone marrow is drawn out of the big bones in the pelvic area. Because your marrow is made of quickly dividing cells, it is able to replace the donated marrow within several weeks.

## **Other Ways to Help**

If you cannot become a volunteer donor, you can still help patients in other ways:

- Make a financial contribution
- Donate umbilical cord blood after a baby is born (talk to your healthcare provider for more information)
- Go to the National Marrow Donor Program web site for more details: [www.bethematch.org/](http://www.bethematch.org/)

## **Where Can I Find Further Information?**

Resource and Learning Center

732-235-9639

[www.cinj.org/rlc](http://www.cinj.org/rlc)

HLA Registry at Community Blood Services

1-800-336-3363

[www.communitybloodservices.org/bm\\_bonemarrow.php](http://www.communitybloodservices.org/bm_bonemarrow.php)

National Marrow Donor Program – Be The Match

1-800-627-7692

[bethematch.org/](http://bethematch.org/)



RLC website QR code. Scan with smartphone / device.