

# HOXWORTH BLOOD CENTER

University of Cincinnati Medical Center

## Hoxworth Fact Sheet

### Hoxworth Blood Center

Hoxworth is one of the oldest community blood centers in the United States, founded in 1938, and is the sole supplier of blood and blood services to 28 hospitals and medical centers in 17 counties in Ohio, Kentucky and Indiana.

### The Need for Blood

350 volunteer blood donors and 40 platelet donors are needed each day to meet the needs of patients in the Greater Cincinnati area. Approximately 60 percent of the adult population in this country is eligible to donate blood, but only five percent do.

All blood is typed and tested for evidence of the following infectious diseases: Hepatitis B; hepatitis C; syphilis; exposure to the AIDS virus, HIV-1/2 (human immunodeficiency virus); and exposure to HTLV-I/II viruses (human t-lymphotropic virus type I/II) and West Nile Virus. Blood that is positive for any of these tests is destroyed.

### Hoxworth's Neighborhood Donor Centers

Hoxworth has eight convenient neighborhood donor centers. Not all locations are open every day. For times or scheduling information, please call (513) 451-0910 or (800) 830-1091.

#### Hoxworth Anderson

7715 Five Mile Road  
Cincinnati, OH 45230  
(*Five Mile Center*)

#### Hoxworth Blue Ash

4310 Hunt Road  
Cincinnati, OH 45242

#### Hoxworth Central

3130 Highland Avenue  
Hoxworth Building - 4<sup>th</sup> Floor  
Cincinnati, OH 45267-0055

#### Hoxworth Downtown

432 Walnut St. 2nd Floor  
Cincinnati, OH 45202  
(*Tri-State Building*)

#### Hoxworth Ft. Mitchell

2220 Grandview Drive Suite 140  
Ft Mitchell, KY 41017  
(*Ft. Mitchell Station Shopping Center*)

#### Hoxworth Ft. Thomas

90 Alexandria Pike  
Ft. Thomas, KY 41075  
(*Ft. Thomas Plaza*)

#### Hoxworth Mason

9554 S. Mason Montgomery Road  
Mason, Ohio, 45040  
(*Governor's Pointe Shopping Center*)

#### Hoxworth Tri-County

11812 Springfield Pike  
Cincinnati OH 45246-2309  
(*Wimbledon Plaza*)

#### Hoxworth Western Hills

2041 Anderson Ferry Road  
Cincinnati, OH 45238  
(*Anderson Ferry Plaza*)

## Mobile Units

Hoxworth maintains a fleet of three mobile blood collection busses. They are very convenient for organizations, businesses, schools or churches that want to help the community blood supply. Hoxworth also has an “inside mobile”, which is designed for large blood drives inside schools, churches and businesses. Please call (513) 558-1280 for mobile unit information.



## Blood's four components

Blood can be separated into four components to be used in various patient therapies. Blood must be processed into components within eight hours of donation. These components include:

- **Red blood cells**
- **Platelets**
- **Fresh frozen plasma**
- **Cryoprecipitate**

### Red blood cells

Red blood cells are disc-shaped cells whose main function is to deliver oxygen from the lungs to the tissues throughout the body. Red cells are often used to treat patients who require surgery, lose blood in accidents, or suffer from chronic anemia or kidney disease. *Red blood cells have 42-day shelf life.*

### Platelets

Platelets are small cellular elements, which aid in the clotting of blood. Platelets are often used in patients with leukemia and other cancer patients undergoing chemotherapy treatments. According to the American Cancer Society, leukemia is the sixth leading cause of cancer deaths among men and the seventh leading cause of cancer deaths among women. Platelets are also used to help other patients with decreased numbers of platelets or poorly functioning platelets. *Platelets last for only five days.*

### Fresh frozen plasma

Fresh frozen plasma is fresh plasma that has been deeply frozen within eight hours of the time it is drawn. Plasma is straw-colored and contains numerous substances, including proteins, minerals, vitamins, sugar, fats, and materials that fight disease and act as chemical messengers. Some of these substances are necessary for blood to clot; others help the body respond to infections and certain diseases. Fresh-frozen plasma is frequently used in the treatment of patients suffering from severe bleeding caused by trauma. *Fresh frozen plasma can be stored for up to one year.*

### Cryoprecipitate

Cryoprecipitate is a combination of proteins in the plasma, which helps in clot formation. It contains the anti-hemophilic factor or Factor- VIII. Cryoprecipitate is used to control bleeding in patients with disorders including hemophilia. *When frozen, cryoprecipitate can be stored for up to one year.*

## Blood Types

There are four main types of blood: A, B, AB and O. Blood is also classified as either "Rh positive" or "Rh negative." Blood types represent different arrangement of complex proteins and chemicals present on the surface of red blood cells.

A person with type O- blood is called a "universal donor." This donor's blood can be given to people with other blood types in emergency transfusions. However, a person with type O blood can only receive type O blood.

The following chart shows the percentage distribution of human blood types in the general population:

	<b>A</b>	<b>B</b>	<b>AB</b>	<b>O</b>
<b>Rh+</b>	34%	9%	4%	38%
<b>Rh-</b>	6%	2%	1%	6%

## Donor requirements

Donors should eat a regular meal within four hours before donating blood. They must be at least 17 years old and in general good health. There is no upper age limit for donation. Women and men must weigh at least 110 pounds.

The donation process takes less than one hour from the registration and screening, to the mini-physical, to the cookies and juice. The actual blood donation only takes about 10 minutes. If you are taking medication and are not sure of your eligibility to donate blood, please call the Hoxworth Donors Services Department at (513) 558-1304.

## Donating blood is safe

You absolutely cannot get AIDS, or any type of virus or disease from donating blood. Hoxworth uses only sterile, disposable needles and equipment for only one donor and then the instruments are immediately destroyed.

## Automated Platelet Donation

While whole blood collection is vital to sustaining an adequate blood supply, platelet collection (or platelet apheresis) is becoming increasingly important. Platelets are needed following cancer therapies, including chemotherapy and bone marrow transplants. Platelets are separated from whole blood through a process called apheresis.

This procedure takes approximately two hours and involves drawing whole blood from the donor's arm, separating the needed component (e.g., platelets) with a special machine, and then immediately returning the remainder of the blood components to the donor. The amount of platelets from a single apheresis donation is equivalent to the number derived from six to eight whole-blood donations.

Other blood components, such as plasma and white blood cells, may also be separated through the apheresis process.

## **Automated Red Cell Donation**

Unlike traditional whole blood donations, which need to be sent to a laboratory for separation and handling, the Automated Red Cell Donation process separates your blood into its components as it is being drawn. This allows you to donate only the specific blood components that are needed for transfusion (more than 60 percent of all transfusions require red cells only). Because we'll be collecting only red blood cells, you can donate twice as many - enough for TWO red cell transfusions! (also known as "Double Red Donation")

The double red donation process takes just 20 minutes longer than a whole blood donation. Since you'll be donating twice the number of red blood cells in one visit, you'll need to make fewer trips to Hoxworth (a maximum of three double red collections are allowed each year). You'll save time traveling to and from Hoxworth, filling out paperwork, and you'll reduce the number of telephone solicitations, fingersticks, and venipunctures.

Many donors find the double red donation more comfortable than whole blood donation because it uses a smaller needle. Your red blood cells will be collected using a sterile, single-use, disposable kit. The other components of your blood (plasma and platelets) are returned to you quickly and painlessly. You'll also receive saline to help re-hydrate your system. We're offering the double red process to donors whose blood types are most needed by local hospitals.

In addition, double red donors must meet certain requirements: Males must weigh at least 130 lbs. and be 5'1" or taller and females must weigh at least 150 lbs. and be 5'5" or taller. All 2RBC donors must also meet minimum requirements for iron/hemoglobin levels.

## **Patient Replacement Blood Drives**

A great way to help a family member or friend who needs blood is to organize what is called a Patient Replacement Drive. It is a blood drive held on behalf of a patient, to help replenish the blood used by the patient. Please call (513) 558-1280 to organize a patient replacement drive.

## **National Marrow Donor Program**

The National Marrow Donor Program (NMDP) is a congressionally authorized network of donor centers, transplant centers, collection centers and recruitment groups that maintains a confidential database of volunteer bone marrow / stem cell donors. This computerized registry was established to help facilitate matches for patients in need of a transplant with a network of unrelated volunteer donors. NMDP is the largest single point of access to unrelated donors, with currently over 4.6 million donors in the NMDP Registry.

Hoxworth houses one of the 100 NMDP donor centers throughout the United States, which educates and recruits new volunteer donors, participates in search related activities, and facilitates both bone marrow and stem cell collections from donors in the Greater Cincinnati area. Since Hoxworth began working with the NMDP in 1987, approximately 15,000 tri-state residents have signed up to be marrow donors and 75 people from our area have actually donated marrow and or stem cells, with several donors actually donating more than once.

For more information about becoming a potential marrow donor, please call the National Marrow Donor Program, Ohio and Indiana Region: (888) 862-7769