

WHAT HAPPENS TO EVERY

BLOOD DONATION?

- AT THE AMERICAN RED CROSS

Red Blood Cells Benefit patients

with chronic anemia or acute blood loss

Platelets

Plasma

with severe liver

disease, clotting

or serious burns

deficiencies

Benefit patients



Every unit of blood goes through up to twelve tests to ensure patient safety.

- 1. HIV 1/2 Test for antibodies to HIV-1 and HIV-2.
- 6. HIV-1 p24 (HIV-1 p24 Antigen) Test for HIV antigen.
- 7. ABO/Rh Test for blood type.
- 8. TP (Syphilis) Test for the agent that causes syphilis.
- found in blood serum. Elevated ALT levels may reflect liver inflammation, which may be caused by a hepatitis virus.
- transfusion reactions.
- on physician request.
- technology that can detect the genetic material of Hepatitis C and HIV potentially faster and more accurately than the current tests, which react to antibodies of those viruses. All of the blood collected by the American Red Cross for transfusion is now subjected to NAT under an Investigational New Drug application submitted to the FDA.



TYPE 0+

A٠

TYPE AB-

Blood components are

labeled according to

stored at appropriate

temperatures.

blood type and securely

Blood components are delivered to hospitals nationwide as needed.





AT THE HOSPITAL

Needed blood goes to patients.



Blood components are cross-matched with patients' blood.

Blood is processed and separated into its component parts.

Volunteer blood donor

gives the gift of life.

A comprehensive health

history is conducted by

screening each potential

questions are asked during

blood donor. Up to 50

this procedure.

Healthy volunteer

blood donors are

recruited. (Generally

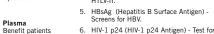
must be at least 17

vears old and 110

pounds.)

undergoing cancer 2. HBc - Test for antibody produced during therapy, recovering and after infection with HBV. from organ and bone 3. HCV - Test for antibody for HCV. marrow transplants or with leukemia or 4. HTLV-I/II - Test for antibodies to HTLV-I and HTLV-II. 5. HBsAg (Hepatitis B Surface Antigen) -Screens for HBV.

```
aplastic anemia
```



- 9. ALT Test that measures a liver enzyme
- 10. Antibody Test to determine the presence of atypical antibodies that may cause post-
- 11.CMV Test for cytomegalovirus performed
- 12.NAT (Nucleic Acid Testing) NAT is a new



12/04/00