

Apheresis (Automated cell separator)

Removes the designated blood component from the donor and at the same time returns the other components into donor's body.



Advantages -

- ♦ Single donor as against multiple donors required in conventional blood components. This avoids exposure to multiple donors leading to alloimmunization & prevents future transfusion reactions & risk of HIV Transmission.
- ♦ One unit of Apheresis platelets is equivalent to 6-8 platelet concentrates assuring maximum response from transfusion.
- ♦ Same donor can be used again after 48 hours in case of rare blood groups.
- ♦ Therapeutic plasma exchange can be done for specific indications.
- ♦ Therapeutic Leucapheresis can be done in Leukemias with very high count.

GREATER KAILASH HOSPITAL



- ♦ *Equipment of latest technology*
- ♦ *Maximum Safety from ultimate Quality*
- ♦ *Quality Control of all procedures from donor selection to issue of blood components*
- ♦ *Quality Control of Blood components to ensure maximum benefit from transfusion.*



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DEPARTMENT OF TRANSFUSION MEDICINE

FACILITIES -

Blood components -

- Packed RBC
- Platelet concentrate
- Fresh frozen plasma
- Cryoprecipitate

Leuco - reduced blood components -

- Leuco-reduced RBC
- Leuco-reduced Platelets
- Leuco-reduced FFP

Apheresis - (Automated Cell Separator)

- Plateletapheresis
(Single Donor Platelet)
- Plasmapheresis
- Leucapheresis

ULTIMATE SAFETY OF BLOOD TRANSFUSION -

- ❖ FDA licensed for Blood Components, Leucoreduced Blood Components & Apheresis.
- ❖ Structure, Design, Equipment & Procedures - all as per FDA safety norms.
- ❖ Meticulous Donor selection - to avoid risky donors likely to transmit HIV or Hepatitis to patients.
- ❖ Screening of Donor Blood as per strict FDA guidelines & Quality Control- to ensure 0% error in screening for HIV / Hepatitis B / Hepatitis C.
- ❖ Quality Control of all reagents - to ensure 100% accuracy & precision.
- ❖ Quality control of Blood Components- to ensure optimum & expected benefit from transfusion.
- ❖ Regular proficiency testing of technical staff for flawless performance - to maintain reliability of results in all procedures.
- ❖ **Leuco-reduction facility -**
To remove leucocytes from blood components. Leucocytes cause Febrile reactions, HLA alloimmunization leading to Post - Transfusion Purpura, transmission of CMV & other leucotropic viruses. These components are ideal for all patients to ensure maximum safety from transfusion. They are particularly essential in immunocompromised patients & those requiring regular transfusions.

