

Plateletpheresis

Plateletpheresis is a medical procedure used to collect platelets from a donor's blood while returning other blood components back to the donor. Platelets are crucial for blood clotting and are often used in the treatment of patients with low platelet counts or those undergoing certain medical procedures.

During plateletpheresis, the donor's blood is drawn through a needle or catheter and passed through a specialized machine called an apheresis machine. The machine separates the blood into its various components, such as red blood cells, plasma, and platelets, based on their different physical properties.

The apheresis machine selectively collects the platelets while returning the remaining blood components, such as red blood cells and plasma, back to the donor's circulation. The platelet-rich component is collected and stored for further processing, testing, and transfusion to patients in need.

Plateletpheresis offers several advantages over traditional whole blood or single-donor platelet collection methods. It allows for a higher yield of platelets to be collected in a single session, typically equivalent to multiple whole blood donations. This is beneficial as a single plateletpheresis donation can provide enough platelets for several transfusions, maximizing the efficiency of platelet collection and utilization.

The procedure is generally safe and well-tolerated by most donors. However, potential risks and side effects, such as bruising or bleeding at the needle insertion site, lightheadedness, or discomfort during the procedure, are possible. Donors are typically selected based on specific criteria to ensure their suitability for plateletpheresis and minimize any potential risks.

Plateletpheresis is an important method for obtaining platelet products for transfusion, which are crucial for managing patients with various conditions, including bleeding disorders, chemotherapy-induced thrombocytopenia, and surgical procedures that involve significant blood loss. By selectively collecting platelets from a donor's blood, plateletpheresis helps meet the demand for these vital blood components and contributes to patient care.

From:

<https://neurosurgerywiki.com/wiki/> - **Neurosurgery Wiki**

Permanent link:

<https://neurosurgerywiki.com/wiki/doku.php?id=plateletpheresis>

Last update: **2024/06/07 02:56**

