



Shramjivi Shikshan Prasarak Mandal's

**Adarsh Mahavidyalaya, Omerga
Dist. Osmanabad**

Department of Microbiology

**Report of
Regional level seminar on**

Platelets and Blood Donation Awareness

14th March 2018

Introduction:

Millions of people need blood transfusions each year. Some may need blood during surgery. Others depend on it after an accident or because they have a disease that requires certain parts of blood. Blood donation makes all of this possible. There is no substitute for human blood all transfusions use blood from a donor. Blood donation is a voluntary procedure that can help save lives. There are several types of blood donation. Each type helps meet different medical needs. Whole blood donation is the most common type of blood donation. During this donation, you donate about half a litre of whole blood. The blood is then separated into its components — red cells, plasma and sometimes platelets.

During apheresis, you are hooked up to a machine that collects and separates different parts of your blood. These blood components include red cells, plasma and platelets. The machine then returns the remaining parts of the blood back to you.

Platelet donation (plateletpheresis) collects only platelets. Platelets are the cells that help stop bleeding by clumping and forming plugs in blood vessels (clotting). Donated platelets are commonly given to people with clotting problems or cancer and people who will have organ transplants or major surgeries.

Double red cell donation allows you to donate a concentrated amount of red blood cells. Red blood cells deliver oxygen to your organs and tissues. Donated red blood cells are typically given to people with severe blood loss, such as after an injury or accident, and people with sickle cell anaemia.

Plasma donation (plasmapheresis) collects the liquid portion of the blood (plasma). Plasma helps blood clot and contains antibodies that help fight off infections. Plasma is commonly given to people in emergency and trauma situations to help stop bleeding.

Objectives:

- Safe blood saves lives.
- Blood is needed by women with complications during pregnancy and childbirth, children with severe anaemia,
- Often resulting from malaria or malnutrition, accident victims and surgical and cancer patients.
- Platelets are tiny cells in your blood that form clots and stop bleeding.
- For millions of people they are essential to surviving and fighting cancer, chronic diseases, and traumatic injuries

Speaker: Mr. Vishwajeet Kashid

International speaker and India's good will ambassador for platelets donation.

Mr. Vishwajeet Kashid in his speech, he told the need and importance of blood and platelet donation. as Safe blood saves lives. Blood is needed by women with complications during pregnancy and childbirth, children with severe anaemia, often resulting from malaria or malnutrition, accident victims and surgical and cancer patients. There is a constant need for a regular supply of blood because it can be stored only for a limited period of time before use. Regular blood donation by a sufficient number of healthy people is needed to ensure that blood will always be available whenever and wherever it is needed. Blood is the most precious gift that anyone can give to another person the gift of life. A decision to donate your blood can save a life or even several if your blood is separated into its components – red cells, platelets and plasma – which can be used individually for patients with specific conditions.

He also added on Platelet donation as in a single-donor-platelet donation, blood drawn from the donor's arm goes first to a cell separator machine. This type of automated technology is called apheresis. The platelets are separated and sent to a collection bag and the remaining components are returned to the donor. A single donation of platelets can yield several transferable units, whereas it takes about five whole blood donations to make up a single transferable unit of platelets.

Outcome of the workshop

The workshop was highly informative sound and comprehensive for the students, teachers, research scholars and academicians more than 100 participants got benefited by sound knowledge of Platelets and blood Donation awareness. In this workshop, participants came to know the various fractions of blood, their importance, the procedure of donations. The message highlights the essential contribution blood donors make to keeping the world pulsating by saving lives and improving others' health. It reinforces the global call for more people all over the world to donate blood regularly and contribute to better health.



