

PLASMA DONOR APPLICATION

INTRODUCTION

Plasma is the liquid portion of blood. Plasma is commonly given to trauma, burn and shock patients, as well as people with severe liver disease or multiple clotting factor deficiencies. It helps boost the patient's blood volume, which can prevent shock, and helps with blood clotting.

In a plasma-only donation, the liquid portion of the donor's blood is separated from the cells. Blood is drawn from one arm and sent through a high-tech machine that collects the plasma. The donor's red blood cells and platelets are then returned to the donor along with some saline. The process is safe and only takes a few minutes longer than donating whole blood.

Many of them need plasma if we donate plasma to others it will be useful for others and us also.

LITERATURE SURVEY

- a) Ripathis S, Kumar V, Prabhakar A, Joshi S, Agarwal A (2015). "Microscale Passive Plasma Separation: A Review of Design Principles and Micro devices," J. Micromech Micro 25 (8): 083001; Plasma separation is of great importance in the fields of diagnosis and healthcare. Due to the lagging transition to microscale, these recent trends are a rapid shift towards shrinking complex macro processes.
- b) Pah Essah and Said Ab Rahman (2011) developed a plasma management system based on information about the donor, the recipient, and the blood. We propose that the system has three modules: However, one crucial issue is left out in this approach, such as who should be responsible for administering the system. Their system has three modules: the donor module, the patient module, and the blood module.

- c) In "Automated online plasma database" by Muhammad Arif; S. Sreevas; K. Nafseer; R. Rahul(2012). They come up with direct call routing technique by using asterisk. In this, every blood bank consist of a database and that will be managed by central server. When someone in need of blood call on their tollfree no. they will directly get connected to a donor and after receiving blood from that donor name of that donor will be kept on hold for 8 weeks.
- d) In "plasma donation and life saver: plasma donation app" by Anish Hamlin M R; Albert Mayan J [5]. They introduced a system where when someone wants blood they login into their app and by GIS they can get details of near by blood donors. They also can donate blood by registering themselves.
- e) In "MBB: A life saving application" by Ramakant Gawande; Narendra Gupta; Nikhil Thengadi [4]. They come up with a system to link all donors and help in controlling blood transfusion process. Their system will also maintain database which hold data of donors and blood according to their city and further by their locality.
- f) Denuis O'Neil (1999). "Plasma component" Archived from the original on June 5, 2013. Normally, certain amount of human body weight comes from blood. For adults, it is 4-6 litres of blood. Blood contains plasma. This essential liquid plays an important role in transporting oxygen and nutrients to cells and removing carbon dioxide, ammonia and other waste products. Blood is a very common tissue composed of over 4000 different types of components. Blood provides lot of plasma.