

LITERATURE SURVEY

1. *Bloomberg School of Public Health staff report*

Sex, age, and severity of disease may be useful in identifying COVID-19 survivors who are likely to have high levels of antibodies that can protect against the disease, according to a new study co-led by researchers at Johns Hopkins Bloomberg School of Public Health.

The findings suggest that older males who have recovered from COVID-19 after having been hospitalized are strong candidates for donating plasma for treating COVID-19 patients. Doctors have been using infusions of plasma—the part of blood that contains antibodies—from recovered COVID-19 patients to treat other patients and also as a possible prophylaxis for prevention.

Doctors have used convalescent plasma to treat patients or immunize persons at high risk of virus exposure during outbreaks of measles, mumps, polio, Ebola, and even the 1918 pandemic flu.

2. *Blood Donors & Blood Collection by Christopher R. France.*

With growing discussion about blood donor remuneration, the present study examined the level of payment that may be required to convince individuals to engage in whole blood, plasma, and platelet donations.

Level of payment needed to motivate whole blood, plasma, and platelet donation was examined as a function of donation history, sample, and gender. In addition, path analyses examined associations between donation motivators, barriers, and payment level.

Across all types of donation, history of whole blood donation was related to a greater willingness to donate without payment. At the same time, however, sizeable portions of prior donors indicated that monetary payment would convince them to donate whole blood (24%), plasma (51%), or platelets (57%).

3.Management of Blood Donation System by Seda Ba,s, Giuliana Carello.

Applying optimization methods to healthcare management and logistics is a developing research area with numerous studies. Specifically, facility location, staffrostering, patient allocation, and medical supply transportation are the main themesanalysed. Optimization approaches have been developed for several healthcare related problems, ranging from the resource management in hospitals to the delivery of care services in a territory. However, optimization approaches can also improve other services in the health system that have been only marginally addressed, yet.

One of them is the Blood Donation (BD) system, aiming at providing an adequate supply of blood to Transfusion Centres (TCs) and hospitals.

4.Android Projects:

Although the government is carrying out Covid vaccination campaigns on a large scale, the number of vaccines produced is not enough for all the population to get vaccinated at present. And with the corona positive cases rising every day, saving lives has become the prime matter of concern. As per the data provided by WHO more than 3 million people have died due to the coronavirus. However, apart from vaccination, there is another scientific method by which a covid infected person can be treated and the death risk can be reduced.

Advantages

- 1.It is a user-friendly application.
- 2.It will help people to find plasma easily.

Disadvantages

- 1.It cannot auto verify user genuineness.
- 2.It requires an active internet connection.