PLASMA DONOR APPLICATION

(PNT2022TMID07974)

BATCH. NO : A3

PRESENTED BY

1. KONDURU MANIDEEP (AC19UCS057)

2. AJAY A (AC19UCS002)

3.MALIGI BAYYA REDDY (AC19UCS064)

4.PADALA DEEPAK (AC19UCS082)

IV – B.E - CSE

ADHIYAMAAN COLLEGE OF ENGINEERING, HOSUR.

GUIDED BY :**Mrs. B Revathi**

CONTENTS

- OBJECTIVE
- LITERATURE REVIEW
- REFERENCES

OBJECTIVE

- To design a Plasma Donating Application Which Helps The User To Post His/her Details To Request Plasma And Donate On Request.

LITERATURE REVIEW

1). Determinants of plasma donation: A review of the literature (Antonne beureil., September 2017)

- This article aims to review the main motivations and deterrents to whole blood donation, and to compare them with those that we already know concerning plasma donation. Current evidence shows similarities between both behaviors, but also differences that indicate a need for further research regarding plasma donation.

2). Modified plasma therapy using the haemonetics (C. Holderman, January 1981)

- Plasma exchange by mechanical blood processors is gaining widespread use in the treatment of many diseases. This article describes a modified procedure for the Haemonetics 30 Blood Processor, which allows infusion of solutions normally incompatible with red blood cells and diluents or anticoagulants that may be mixed with the red cells. This modification also avoids the need for heparin as an anticoagulant, especially in outpatient therapy.

LITERATURE REVIEW Contd…

3) Plasma-collection plant has to overcome tainted-blood fallout in search for donors (M O Reilly., March 1998)

- Canada's lack of self-sufficiency in blood products has led to the opening of a blood-plasma collection Centre in Thunder Bay, Ont.--the first of its type in Canada. In convincing donors to donate plasma, the new Centre had to overcome some lingering public concern about the safety of the blood-collection system.

4) Donor tolerability of convalescent plasma donation(Rui he., February 2021)

- There is limited information regarding donor tolerability of convalescent plasma donation. In this study, we evaluated the short-term donor tolerability of convalescent plasma donation. There was no correlation to donation history, weight, sex, ABO blood type, pre-donation diastolic blood pressure, pulse, or hemoglobin. The donation of convalescent plasma is generally safe. Mitigation of risk factors associated with adverse events can further enhance donor tolerability of convalescent plasma donation.

LITERATURE REVIEW Contd…

5) Perspectives on compensated plasma donation (Jan Bult., February 2005)

- The subject of compensating donors has been and sometimes still is a topic for lively discussion. It is my view that compensating plasma donors for their time and effort is appropriate when done in a well regulated environment.

6) Chronic effects of blood and plasma donation(Bryan Ross Spencer., June 2022)

- This Article discusses potential chronic effects associated with blood donation, including those for apheresis donation of platelets and plasma. Over the subsequent two decades, widespread adoption of iron supplementation programs by blood centers did not materialize.

REFERENCES

1.″Determinants of plasma donation: A review of the literature” written by Antonne beureil., published in Transfusion Clinique et Biologique on September 2017.

2. ″Modified plasma therapy using the haemonetics “ written by C. Holderman Published by Elsevier in January 1981.

3.” Plasma-collection plant has to overcome tainted-blood fallout in search for donors “ Written By M O Reilly published in PubMed on January 2006.

4. ″Donor tolerability of convalescent plasma donation” written by Rui he Published in Journal of Clinical Apheresis on February 2021.

REFERENCES Contd…

5.”Perspectives on compensated plasma donation” written by Jan Bult Published in Developments in Biologicals on February 2005.

6. "Chronic effects of blood and plasma donation” written by Bryan Ross Spencer published in book called Rossi's Principles of Transfusion Medicine on June 2022.

THANK YOU