

PLASMA DONOR APPLICATION

LITERATURE SURVEY

TEAM DETAILS:

Team No: PNT2022TMID31636

College Name : KGISL Institute Of Technology

Department : Computer Science & Engineering

Team Leader - Sasi Kumar. P

Team member 1 - Niranjan. E

Team member 2 - Sasi Keerthana. R

Team member 3 – Tharini. M

1)

Title:

Determinants of plasma donation

Authors:

Antoine Beurel , Florence Terrade

Description:

The major contribution of Human Sciences in the understanding of the whole blood donation behavior has been through the study of individuals' motivations and deterrents to donate. However, if whole blood donation has been very widely studied in the last sixty years, we still know very little about plasma donation in voluntary non-remunerated environments. Yet, the need for plasma-derived products has been strongly increasing for some years, and blood collection agencies have to adapt if they want to meet this demand. 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.

Year:

September 2017

Technologies:

Python

2)

Title:

Management of Blood Donation System

Authors:

Seda Baş Güre, Giuliana Carello, Ettore Lanzarone,
Zeynep Ocak.

Description:

Applying optimization methods to healthcare management and logistics is a developing research area with numerous studies. Specifically, facility location, staff rostering, patient allocation, and medical supply transportation are the main themes analysed. 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.

Year:

September 2016

Technologies:

Python

3)

Title:

Prosocial Motivation and Blood Donations

Authors:

Lorenz Goettea, Alois Stutzerb, Beat M Freyc

Description:

Recent shortages in the supply of blood donations have renewed the interest in how blood donations can be increased temporarily. We survey the evidence on the role of financial and other incentives in eliciting blood donations among donors who are normally willing to donate pro bono. We present the predictions from different empirical/psychological-based theories, with some predicting that incentives are effective while others predict that incentives may undermine prosocial motivation. The evidence suggests that incentives work relatively well in settings in which donors are relatively anonymous, but evidence indicates also that when image concerns become important, incentives may be counterproductive as donors do not want to be seen as greedy.

Year:

June 2010

Technologies:

Python