Register for volunteer blood donors

for fast locating of rare blood groups in emergency

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chapter1: introduction

1.1BACKGROUND OF STUDY

All over the world, the presence of health system in necessary in promoting

emergency medical response. While the world has been doing important steps in controlling

the numerous deaths that happen as a result of disenses and emergencies like civil wars and

accidents, unhurried and unimportant advances are being made in some nations frequently the

immature and emerging countries (WHO, 2015). In the starting of the 21st century, the

growth and increase of IT in healthcare management has been the movement of healthcare

creation and advance in all parts of the global, with the wide application and quickly

growth of information technology solutions that involve computer technique, network

technique and multimedia technique (Kumar, Stem &Anderson, 2003).

Information Technology is essential to effectively manage contributed blood in blood banks and

other healthcare services (GUO, 2009). Blood banks only allow donated blood if the giver fulfils

the following settings: if the donor is between eighteen and sixty years of age, if the donor is forty

five kilograms or more, if the donor's hemoglobin is at a minimum of 12.5gm/dL, and if the giver

last donated blood is six months before the present donation time (WHO, 2015).

blood donors from the home page by blood group and the place where blood is wanted. The system

will show the presented fivers along with their phone number, email address and email address

through positioning them by nearby place and blood donor Blood seekers can send message (o all

donors through email but a donor can send message using email and mobile phone An

appointment will be created only whenever a donor accepts that he/she will donate blood,

1.2 PROBLEM STATEMENT

Many people need to give their blood to help others but this willing may interfere many challenges and obstacles due to lack of details such as people don't know how to search information schedules and activities of existing blood donor.

It is a serious problem that the shortage or lack of blood in emergency conditions like operation,

pregnancy problems and serious accidents, Regarding to World Health Organization (WHO) only

thirty one percent of demanded blood comes from the voluntary donors and sixty nine percent

required blood comes from the private sectors particularly from the professional donors and sellers

(WHO 2 018)

A study informs that, almost all cases patients relatives or attendants are careless about the blood

group and donor collection! In most cases they depend on blood brokers for managing emergency

blood

[0:45 pm, 25/03/2022] Mohamed: Also there is a problem towards donor details because there is no donor database containing the

donor's personal and contact info, blood grouping and tracking which makes the entire process

very complex and time consuming.

1.3 RESEARCH OBJECTIVES

1.To identify motivators for blood donations among blood donors and non-donors

2,To develop a voluntary donor location prototype that can be used in enhancing emergency

medical response

3. To investigate the degree of use of voluntary donor location systems in the Mogadishu donor

management and healthcare facilities.

1.4 RESEARCH QUESTIONS

1.How to get motivators for blood donations ?

2. What are the features of a prototype that can be used in enhancing the adoption and use of a

voluntary blood donor location system in the Kenyan donor management and healthcare

facilities?

3, What are the donor location systems currently used in Mogadishu blood donor

manegment centers and healthcare facilities?

1.5 SIGNIFICANCE OF THE STUDY

The need for the blood is important for treating in medical field For every second someone needs

Bood to save their life. The task of blood bank is to receive blood from various donors, to monitor

The blood groups database and to send the required blood during the need to the hospital in case of

emergencies. Some countries, especially like somalia, the blood resource lacks in quantity which

is a barrier to others life.