

PLASMA DONOR APPLICATION

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PROBLEM DEFINITION:

- ☐ During the COVID 19 crisis, the requirement of plasma became a high priority and the donor count has become low.
- ☐ Maintaining the list of donars and requesting the desired type of plasma is difficult.
- ☐ In regard to the problem faced, an application is to be built which would take the donor details, store them and inform them upon a request

OBJECTIVE:

- ☐ To provide guidance on the measures needed to develop and implement effective systems for assessing the suitability of individuals to donate.
- ☐ Review the available evidence base and provide recommendations on criteria for plasma donor selection.
- ☐ Our system motivates and maintains a permanent well-indexed record of voluntary blood donors and request them to donate .

LITERATURE SURVEY-1

☐ **NAME OF THE PAPER:**

A Health-IoT Platform Based on the Integration of Intelligent Packaging ,
Unobtrusive Bio-Sensor and Intelligent Medicine Box.

☐ **NAME OF THE AUTHOR:**

Geng Yang, Li Xie , Matti Mantysalo , Xiaolin Zhou, Zhibo Pang, Li Da Xu, Sharon
Kao-Walter.

☐ **JOURNAL PUBLISHED:**

IEEE paper on A Health-IoT Platform.

☐ **MONTH AND YEAR PUBLISHED:**

2015, April 4

☐ **OBJECTIVE OF THE PROJECT:**

To develop an intelligent home-based there is a suggested and implemented healthcare
platform. It entails Connectivity for I Med Box and communication for I Med Pack
capabilities made possible by SOC, Bio-Patch, and RFID. IoT and it combine.

LITERATURE SURVEY - 2

☐ **NAME OF THE PAPER:**

Evaluating plasma holds in the presence of multiple infections .

☐ **NAME OF THE AUTHOR:**

D. Hirata

T. Sugino .

☐ **JOURNAL PUBLISHED:**

Seventh International Conference on Indium Phosphide and Related
Material Hokkaido, Japan.

☐ **MONTH AND YEAR PUBLISHED:**

1995.

☐ **OBJECTIVE OF THE PROJECT :**

The application of immunohistology to the spectrum of plasma cell disorders has
yet to be incorporated widely into routine haematology practice.

LITERATURE SURVEY - 3

- ☐ **NAME OF THE PAPER :**
Use of Non-Thermal Atmospheric Pressure Plasma Discharge for Coagulation and Sterilization of Surface Wounds.
- ☐ **NAME OF THE AUTHOR:**
C. Sandow Infineon Technologies AG, Neubiberg, Germany.
- ☐ **JOURNAL PUBLISHED:**
IEEE International Conference on Plasma Science (ICOPS).
- ☐ **MONTH AND YEAR PUBLISHED:**
12-16 september.
- ☐ **OBJECTIVE OF THE PROJECT:**
Our experiments have shown that such plasma treatment hastens Coagulation and causes simultaneous wound sterilization.

LITERATURE SURVEY - 4

- ☐ **NAME OF THE PAPER :**
Mechanisms of Physical Plasma-Induced Blood Coagulation.
- ☐ **NAME OF THE AUTHOR:**
F. Hille Chair for Physics of Electrotechnology, Technical University of Munich, Germany.
- ☐ **JOURNAL PUBLISHED:**
IEEE International Conference on Plasma Science (ICOPS).
- ☐ **MONTH AND YEAR PUBLISHED:**
2021 12-16 September.
- ☐ **OBJECTIVE:**
Interestingly, incubation of whole blood with concentration-matched hemolysates phenocopied the plasma-mediated platelet activation. Hence, we identified hemolysis being the main mechanism of plasma-induced blood coagulation via platelet activation .

LITERATURE SURVEY – 5

☐ **NAME OF THE PAPER:**

The Path towards automated data analysis.

☐ **NAME OF THE AUTHOR :**

Tania Cerquitelli ,Elena Baralis, Lia Morraand Silivia Chiusano.

☐ **JOURNAL PUBLISHED:**

IEEE paper was authored on Data Mining for Better Healthcare.

☐ **MONTH AND YEAR PUBLISHED:**

2016.

☐ **OBJECTIVE OF THE PROJECT :**

The mining system should be able to devise which knowledge could be most interesting to the user extract actionable knowledge from large medical dataset with minimal user intervention. System should be capable of yielding actionable knowledge extracting manageable sets. Large parameter spaces need to be explored at abstraction level to envision a system capable of evaluating and comparing many data-mining technique configurations at a time.

LITERATURE SURVEY – 6

☐ **NAME OF THE PAPER:**

Nearest Blood & Plasma Donor Finding.

☐ **NAME OF THE AUTHOR:**

Nayan Das, Amit Trivedi DA-IICT, Jalandher.

☐ **JOURNAL PUBLISHED:**

2007 IEEE 33rd Annual Northeast Bioengineering Conference Stony Brook,USA.

☐ **MONTH AND YEAR PUBLISHED:**

10-11 March 2007.

☐ **OBJECTIVE OF THE PROJECT :**

This system motivates and maintains a permanent well-indexed record of voluntary blood donors .

CRITICAL FINDINGS:

- ☐ The scarcity of the blood is reduced and all can get the sufficient blood.
- ☐ Creating awareness and incorporating people the importance of the blood donation.
- ☐ To make things easy for patients and relatives of COVID-19 positive persons and the medical fraternity in finding a plasma donor
- ☐ This system improves donation.