IMPLEMENTATION STUDY OF HIS MED-MANTRA DIGITAL AT OUTPATIENT DEPARTMENT

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Organization Overview

❖Name - Indraprastha, Apollo Hospital (Delhi)

❖Industry- Healthcare

❖Type – Private

❖Founded – 1996

❖Founder- Dr. Prathap .C. Reddy

❖Parent Hospital- Apollo Hospital

Contd…

❖ JCIA and NABH Accredited

❖ Largest Telemedicine Group

❖ Initiatives like Task Management application, Register Digitization, E-signatures, Telestock ICU etc.

❖ More than 55 Applications

❖ Sify IT enabler partner

❖ IBM Watson

Introduction (Med-Mantra Digital)

❖Hospital Information system

❖Improved version

❖Different modules OP, IP, Dietary, Nursing Indent

❖Based on EMRAM (HIMSS)

❖Integrated

❖Modular Design

❖Developed by TCS and Apollo IT corporate team (Chennai)

❖Standards compliant like HL7,DICOM etc.

Source – Med Mantra Software

Source- Med-Mantra Software

Literature Review

Case study-1

❖ This study was carried out in 2012

❖ Qualitative study and convenient sampling was used

❖ Aim was to study Motivating and Hindering factors

Case Study-2

❖ This study was carried out in 2011

❖ To gather the information survey was conducted

❖ Aim was to study Association of EMR and CDSS

Contd…

Case Study-3

❖This study was conducted in emergency department (2017)

❖ Non-interventional descriptive studies and convenient sampling

❖ Aim to study the Barriers and facilitator for EMR usage

Case Study-4

❖Study period(2017)

❖Cross-sectional study and Random Sampling

❖Aim to study the factors affecting EMR

Objective

General objective

To implement HIS and adopt the process of EMR at all OPD functionalities of the hospital.

Specific objective

❖To implement HIS and adopt the process of EMR

❖To determine the Usability of Med-Mantra Digital

❖To determine the Performance of the Med-Mantra digital

❖To determine the satisfaction level about Med-Mantra Digital

Methodology

❖ **STUDY DESIGN**

Interventional Studies

❖ **STUDY AREA**

Apollo Hospitals,Indraprastha (New Delhi)

❖ **STUDY PERIOD**

3 months from February to April,2018

❖ **STUDY POPULATION**

60 doctors both male and female

❖ **SAMPLING METHOD**

Convenient Sampling

❖ **INCLUSION CRITERIA**

It includes consultants on panel of Apollo hospital.

❖ **EXCLUSION CRITERIA**

All the visiting consultants in Apollo hospital.

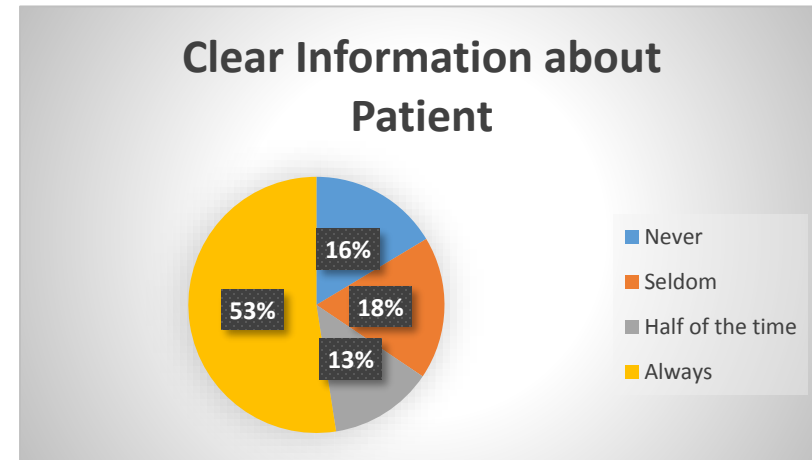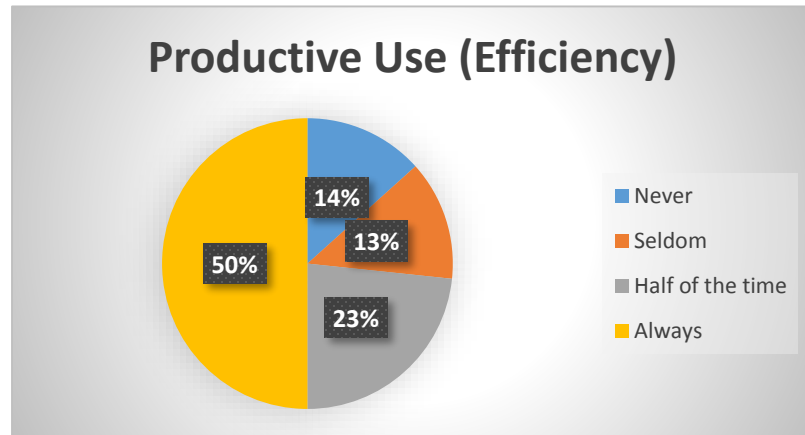# Tools and Techniques

❖The questionnaire to be used

❖Data is to be collected from the doctors by the questionnaire

❖The investigator to introduce himself to the respondent and explain the objective of the study and also confidentiality of the participants assigned.

❖Most of the question to be close ended.

❖Semi-structured interview technique is used.

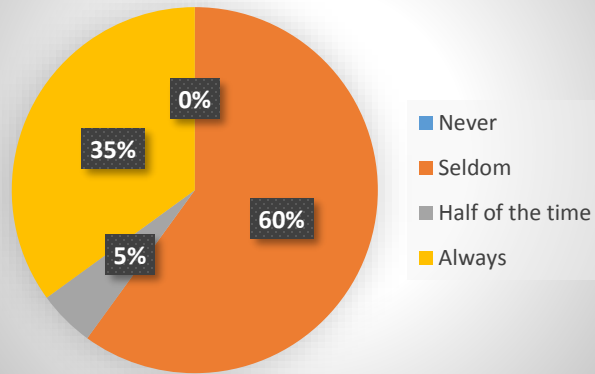❖ MS excel to be used for analysis of the primary data so collected.
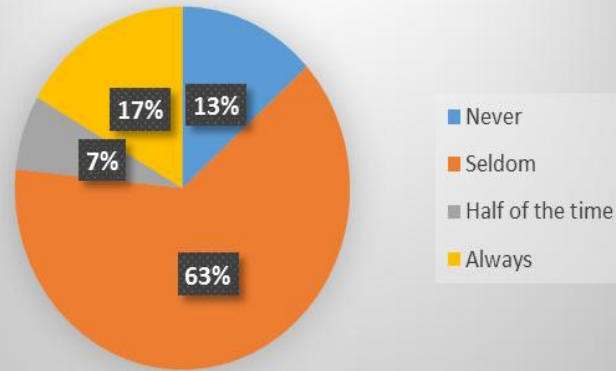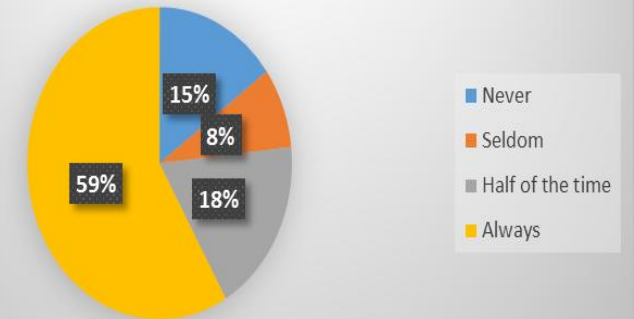
Results

<u>USABILITY</u>

Productive Use (Efficiency)

- Never — 14%
- Seldom — 13%
- Half of the time — 23%
- Always — 50%

Clear Information about Patient

- Never — 16%
- Seldom — 18%
- Half of the time — 13%
- Always — 53%

PERFORMANCE

SATISFACTION

Contd…

EMR ENTERIES

Februrary	31
March	1696
April	2399

Training given to doctors in respective months

Feburary	19
March	34
April	8
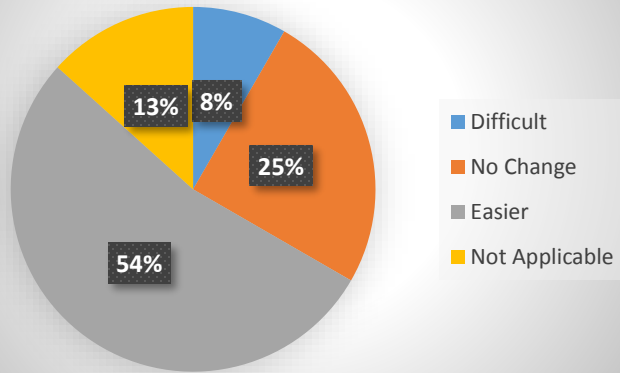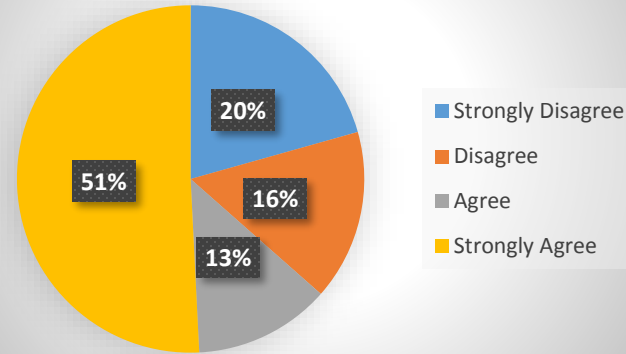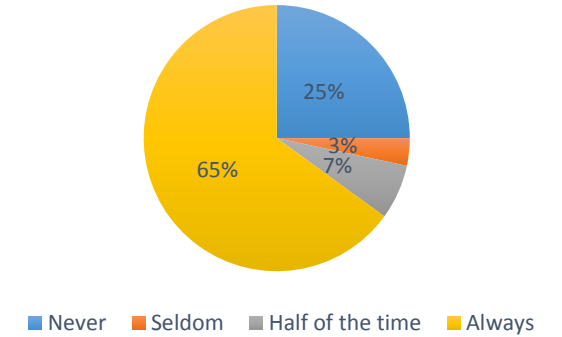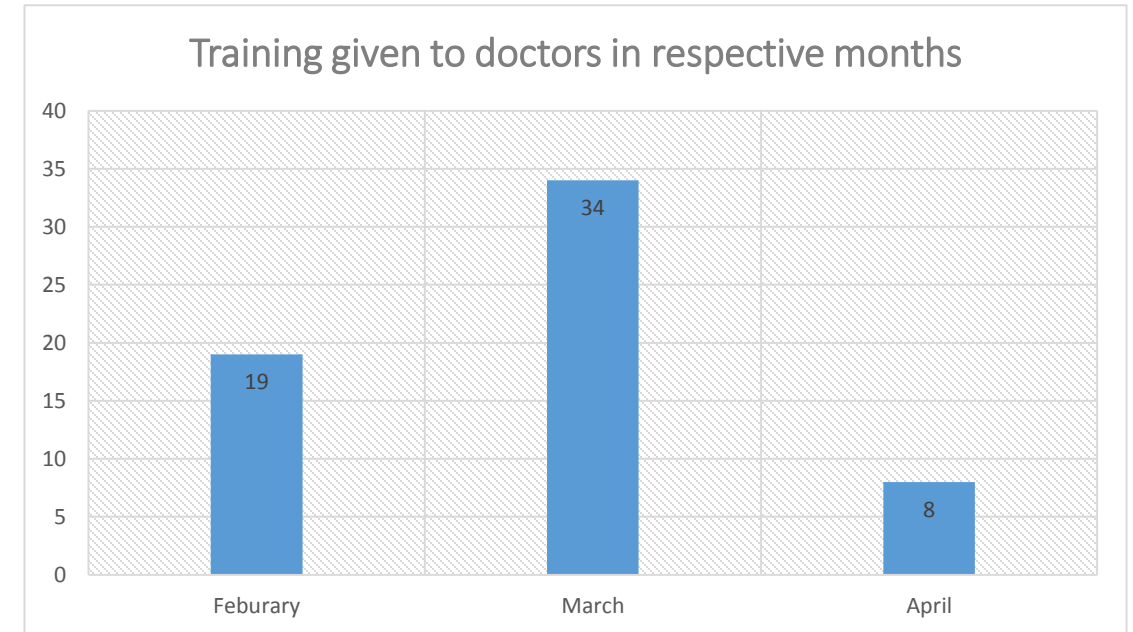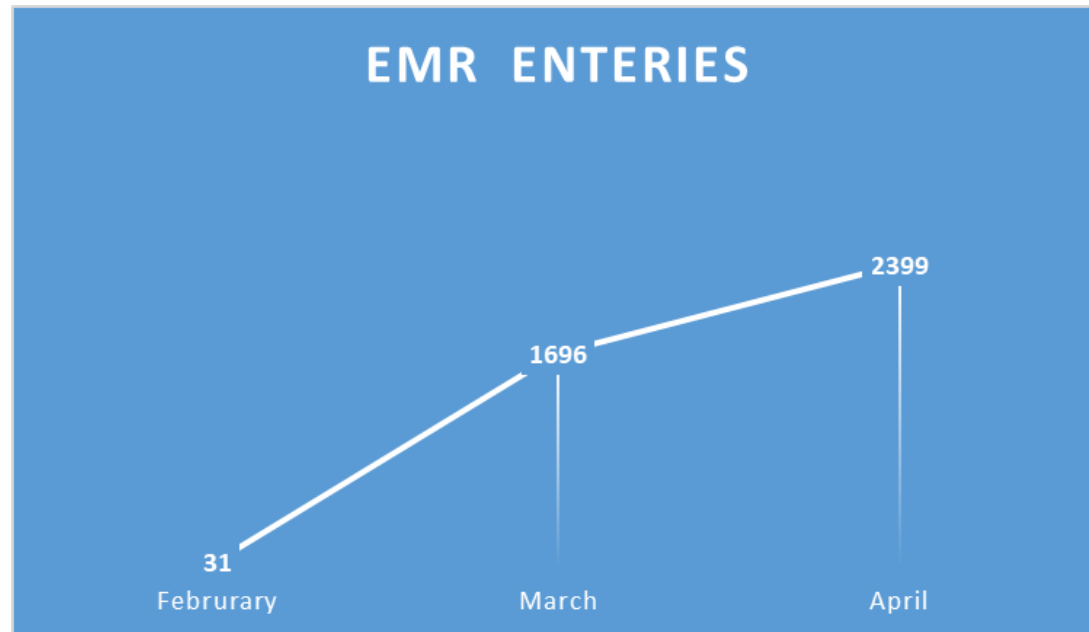
Observation and Finding

❖Software is complicated

❖ Speed Issues

❖PDF format

❖Increases OPD timmings

❖Auto-Text

❖Human Error

❖User-Requirement

❖Training

❖ Review Status

Recommendation

- ❖ Simple
- ❖ Direct Payment Status
- ❖ PDF and View Mode
- ❖ Incentives and Perks
- ❖ Kick-off Meetings
- ❖ Auto-Text
- ❖ Medicine (Generic Name)
- ❖ Connectivity Issues
- ❖ Team Work

Conclusion

❖Integrate key transformation enablers employ a holistic approach

❖Identify the drivers: understand the drivers.

❖Realizing the maximum effectiveness: execute the transformation.

Thank you