

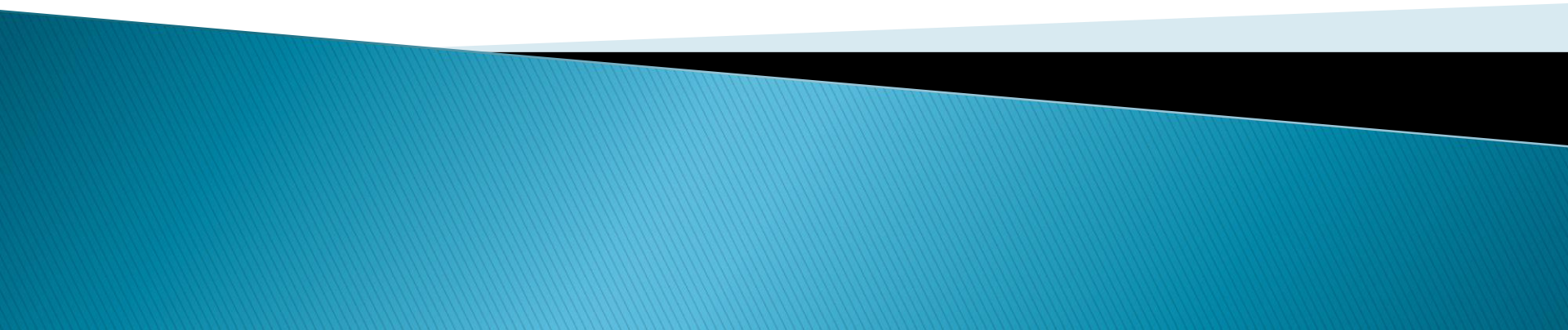
A STUDY ON HOSPITAL MANAGEMENT INFORMATION SYSTEM

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BATCH –HM20

UNDER GUIDANCE OF
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INTRODUCTION

- ▶ Hospital Information Management System (HIMS) implies putting every one of all frameworks and healing hospitals – wide assets both electronic and manual that arrangement with taking care of and capacity of data/information of doctor's facilities in personal computers (PCs) that are connected to each other and available from every single approved hub. HIMS is extensive doctor's facility wide programming which covers all parts of administration and everyday operations of the hospital.
 - ▶ HMIS incorporates clinical, money related, managerial data, utilizing the mix of PC, correspondence web and imaging innovation in order to wellbeing experts' cooperating in the conveyance of care to patients, and give exact and auspicious data to open and administration.
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- ▶ The HMIS may control official documentations, budgetary situational reports, individual information utilities data and stock sums additionally keeps in secure place patients data, patients restorative history, medicines, operational and laboratory center test outcomes

LITERATURE REVIEW

- ▶ Nuright L.P., Simpson Nell (1994) led a review on advantages of clinic data frameworks in cutting edge healing facility staff from six doctor's facilities. The motivation behind these illustrative correlational reviews was to recognize benefits acknowledged from modernized doctor's facility data frameworks (HMIS) and the advantages acknowledged as seen by forefront framework clients. A sum of 695 respondents from six clinics portrayed advantages identified with cost investment funds. Medicines of attendants with respect to the degree to which advantages were acknowledged were not fundamentally not the same as those of non-medical attendant staff ; however nurture evaluated potential significantly higher in significance then did non medical caretakers.

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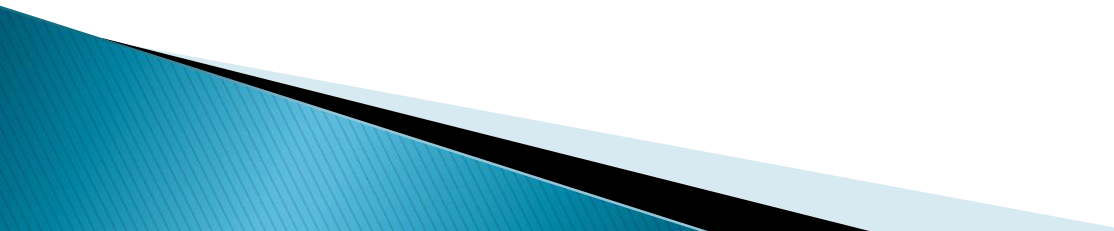
- ▶ Discernments were not reliably connected to statistic factors; the variable most impacting discernments was degree of computerization in office. Discoveries seem valuable to specialists concentrate HIS advantages and to framework creators and sellers trying to make HIS more easy to understand, functional, and attractive.
- ▶ Premkumar Balramian, kalpattia kosalam led a review – E. healing facility administration and the changing patterns in the data administration framework

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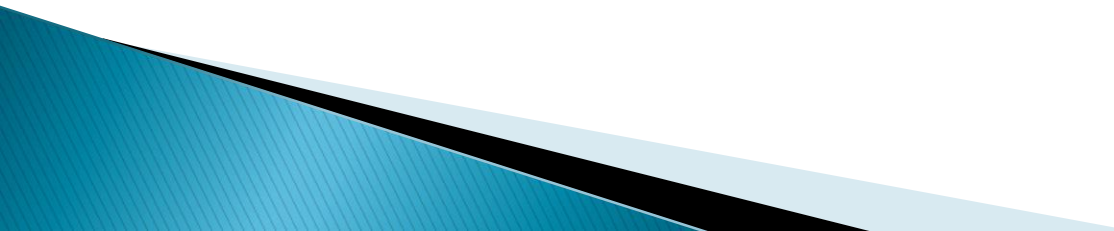
- ▶ E-doctor's facility administration frameworks give the advantages of streamlined operations, upgraded organization and control, unrivaled patient care, strict cost control and enhanced productivity.

Internationally acknowledged medicinal services frameworks need to consent to social insurance guarantees benefit and responsibility act (HIPAA) principles of HIS and that has turned into the standard of human services industry. The review is generally concurred gauges and conventions like wellbeing level framework benchmarks for manual message, HIS parts, and so forth.

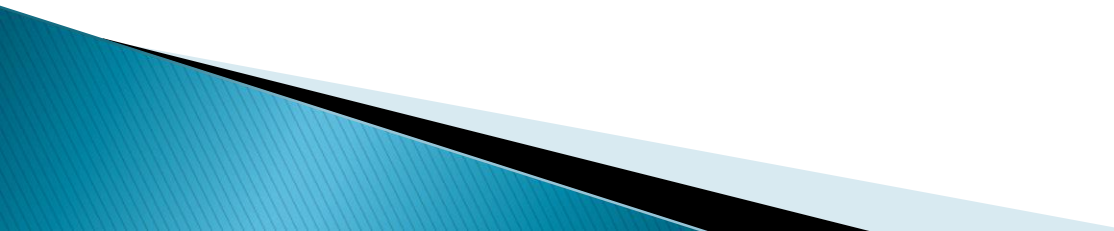
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- ▶ To touch base at an indisputable thought of the ale pictures on E-healing facility administration and clinic data frameworks existing study information and particular effective contextual investigations of HIS are considered in the review. With such a large number of redid renditions of E-doctor's facility administration arrangements (E-HMS) and healing facility data frameworks accessible in the market a nonexclusive module astute condition of E-doctor's facility administration framework is diagrammed.
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OBJECTIVES

- ▶ To understand the managerial perspectives for the need for upgradation of the existing HMIS in Paras hospital
 - ▶ To study the inputs and processes in the existing hospital information system; and
 - ▶ To analyse strengths, weaknesses, opportunities and threats in the existing HMI system
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METHODOLOGY

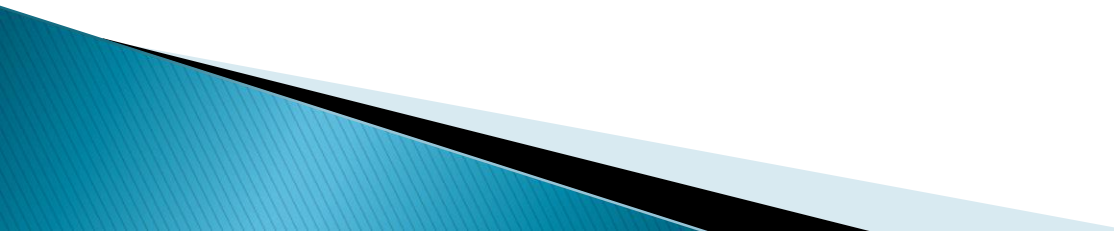
- ▶ The study was conducted in following steps as mentioned below:
 - ▶ Step 1: Discussion with Deputy Manager and IT unit head.
 - ▶ Step 2: Sought permission from IT unit head, Paras hospital.
 - ▶ Step 3: Review the existing HMIS by visiting all the units/ departments in Paras hospital by taking notes.
 - ▶ Step 4: conducted SWOT analysis.
 - ▶ Step 5: Identified inputs and processes required to upgraded HMIS .
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FINDINGS

- ▶ Review the existing HMIS
- ▶ OPD enrolment when a patient goes to the front counter. Another enrolment number is consequently apportioned to HMIS. Patients' own points of interest like name, age, sex, address and so forth and the administrations covered are put into the product OPD charging/accumulation. Of all the OPD patients with finish points of interest of the patient data , administrations gave like counsel , lab , X-beam , ultrasound , medications , methods and so forth .

- ▶ IPD registration when a patient comes to the reception desk for admission, a separate new registration number is automatically allotted to the patient. His/ her personal details along with the details of the admission, room, consultant, surgeon, diet etc. and the advance payment are fed into the software. The software records all this information and print the related documents.
 - ▶ 3. On line billing of IPD patients with details of patient information, services provided on daily basis like room rent ,operations, delivery, oxygen and other gases consultation, nursing charges, laboratory tests, X-ray, ultrasound, medicines, procedures, etc
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- ▶ 4. Discharge synopsis - After the release of the patient release synopsis of the patient can be naturally created.
- ▶ 5. Store administration -Keep up issue slips. Look after stock ,reorder levels.
- ▶ 6. Laboratory facility administration - As the test is reserved at gathering solicitation is naturally send to research centre. Lab can encourage the outcome later and prints reports.
- ▶ 7. Drug store administration - Consequently it can be connected to the primary billing. As patient collects medicines from the pharmacy shop their charges will automatically transfer to patient billing.

- ▶ Insurance and TPA management -Pre admission forms for different TPA can be set .after admission limit of panels approval will be taken care of.
 - ▶ Medical Record Department management -Keeps history of all the patient. Data analysis can b further done on any field. Keeps track of the ICD numbers/ bed days per consultant and other MRD records.
 - ▶ Payroll and HRD management - Complete salary can be computed through this module.
 - ▶ All necessary formats are generated through this module.
 - ▶ Consultant management- Tracking of consultant share for OPD/Indoor procedures options for defining consultant
 - ▶ Shared based on procedures / department .
 - ▶ Classifying visit of patient as new/ old for that consultant.
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SWOT ANALYSIS OF CURRENT SYSTEM

STRENGTHS

- The current system has all the modules
- Well integrated with finance module
- The current system is already on the web

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WEAKNESS

- No centralised database
- Lack of internal dashboards
- User interface isn't user friendly

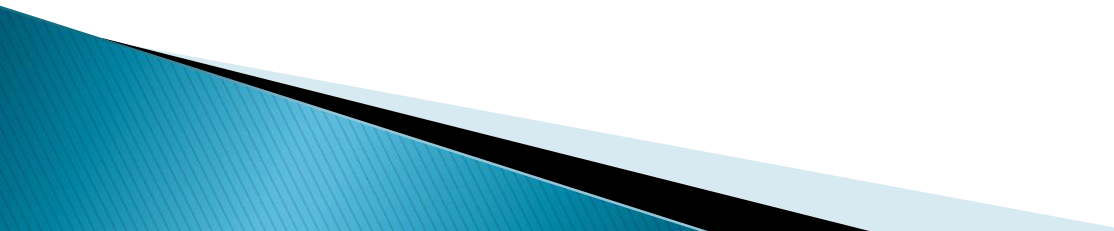
OPPORTUNITY

- Centralised dashboard
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- Use of portable devices
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- Module applications

THREATS

- Over dependence on windows licences
- Technology obsolescence
- Network connectivity

Need for UPGRADATION OF HMIS

- ▶ Management of Paras hospital decided to upgrade the HMIS for the following reasons:
 - ▶ Better efficiency
 - ▶ Easy for staff of the hospital
 - ▶ Better patient satisfaction
 - ▶ Better storage and retrieval of data
 - ▶ Better utilization of hospital resources
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THE ADVANTAGES OF UPGRADATION OF HMIS VISUALIZED WERE

- ▶ As a good managerial tool to provide total, cost – effective access to complete and more
- ▶ Accurate patient care data to offer improved performance and enhanced functions.
- ▶ As systematic way to manage documents.
- ▶ To gather information to meet management challenges.
- ▶ To educate about the diseases of the surgical through pictures and animations.
- ▶ Reduction in operational costs through effective resource allocation senior clinicians , nurses, technicians ,and other assists.
- ▶ Effective operational control and streamlining them

The following gaps in the inputs and processes were identified:

- ▶ There was no separate entry for booking or those patients who sought appointments and those who come without any previous information.
- ▶ OPD and IPD billing- incomplete data entry of information on personal information including mobile number, cover letter for the insurance system to be typed/ incorporated in the system, IPD billing co-payment is calculated automatically; emergency and surgeries charges are also calculated separately.
- ▶ In-Patient management- incomplete data entry of information on personal information.
- ▶ Operation Theatre management- Lack of Scheduling / slots of doctors; in OT module which scrubs nurses washes for which case isn't mapped

CONCLUSION

- ▶ The need for upgradation of the existing HMIS in Paras hospital was realized by the management for making the hospital system more efficient and effective.
- ▶ The inputs and processes in the existing hospital information system are to add personal details of the patients like mobile no., name , address which is necessary.
- ▶ The strengths included well integrated finance module and the existing system is on the web , weaknesses were no centralized database and it is not user friendly , opportunities and threats in the existing HMI system are module applications and database. And threats are dependence on windows and network connectivity is required.

▶

Thank you