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Role of Emerging Technology for Building Smart Hospital Information System

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Abstract

For last couple of year emerging technologies had changed our life drastically, specially with advances in smart mobile and faster and cheaper internet. As a result of research & development activities we have various kinds of sensors like Digital Biosensing Surface, ECG (Electrocardiogram) to gather information, smarter equipment like Tablets, any Smart Phone Apps to process and present them; with these we have robust ways of communication to interconnect all these system to provide complete new user experience. Currently various hospitals are using computerized information system known as HIS (Hospital Information System). But with changing technologies there is scope for delivering smarter information system to deliver enhanced administration, superior patient care, and streamlined operations and improve profitability. The study is focus on analyzing current information system, finding key areas for improvement, identifying newer technologies to fit requirement.

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Keywords: HIS (Hospital Information System); ECG (Electrocardiogram); Biosensing Surface, Tablets (Palm Computer).

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1. Introduction

Now a day's Health Care Organizations of all sizes faces a critical need to manage and integrate clinical, financial and operational information. In the current regulatory and economic environment, hospitals must focus their efforts on performance initiatives that are essential in the short term and that will also remain critical for long-term success. By delivering the right information to the right person at the right time, any enterprise will be able to improve the delivery of the healthcare Services and make processes more efficient. This is what transforming Information into intelligence. To Change Hospital Management system into Smart Hospital Management System needs to take help from various smart devices which are present now and coming in future. These various devices will help Organization with seamless flow of data between disparate systems and business units so that the enterprise at both macroscopic and microscopic levels can deliver better care and enhanced satisfaction to patients, care providers and also the attendants.

2. Objective of study

- Finding key areas for improvement in current information system for hospital in India.
- Identifying cutting edge medical equipments to fit existing and future requirements.
- Finding way for stronger interconnectivity between various terminals at hospital by enabling smarter and automated flow of information

3. Significance Of Study

Enhance operational efficiencies -

By integrating and streamlining your hospital workflow, it allows you to increase patient volumes without increasing staff. Automation of administrative tasks reduces errors and increases productivity at all levels.

Improve costs control -

With more accurate capture and reporting of business data, Smart HIS can be analyzed to avoid duplications, reduce cycle times and maximize the throughput of the hospital supply chain. All this leads to improvements in cost control.

Make better decision -

It helps as a management information system for the hospital authorities to develop comprehensive health care policies.

Improve the quality of care and patient experience -

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