



## A study of 'Impact of Technology in Healthcare: Big Challenge'

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**Abstract:** This research is on the study of technology in medical field, its effect on the lives of people and the changes in the method of healthcare. Healthcare changes dramatically because of technological developments, from anesthetics and antibiotics to magnetic resonance imaging scanners and radiotherapy. The study analyses the influence of information and technology in the delivery of healthcare service. This study is focused on the impact of technology in transforming the field of healthcare, planning for human resources, continuing medical education, facility registration, and telemedicine initiatives. The topic is relevant, and shows the prevalence of technology in the medical field which includes advance

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technologies such as Telemedicine, Electronic Medical Records, Hospital Management System, e-Health, availability of information and Big Data. The main purpose of this research is to study about the challenges faced during the implementation of technology in healthcare. One of the biggest challenges is lack of manpower and required training. The main objective of our study is to bring awareness about technology implication in healthcare.

**Keywords:** Telemedicine, Electronic Medical Records, e-Health, Big Data, IT: Information Technology, HMRI: Health Management Research Institute, EMRI: Emergency Management Research Institute, AI: Artificial Intelligence, 3D-Printing.

### **Introduction:**

The role of technology in healthcare is significant and can play a transformative role. It has the ability to revolutionize healthcare. Technology can bring services closer to the community. Technology can expand the capacity of the health system to provide care. IT has come a long way in making hospitals paperless and filmless entities. It has provided enormous benefits such as faster patient throughput, faster diagnosis, reduced manpower requirement, recording patient history at one place, and referring them for overseas medical treatment.

In modern times, the use of new information technology (IT) has provided remarkable opportunities to decrease medical errors, support healthcare