Data Collection and Technology in Healthcare

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Data collection and technological advancements in the healthcare systems has significantly increased the effective healthcare delivery and patient satisfaction. The data collected in the healthcare systems is one of the most difficult and time-consuming procedures for healthcare institutions. This consumes time and increases costs. Therefore, a number of integrated systems have evolved leading to effective and efficient data collection systems. Electronic health records have proven to be one of the most successful technological data collection processes for the healthcare staff and the patients. The patient's records regarding medical history and the treatment at all levels are held on these systems. These records are only accessible to the patients and the healthcare delivery staff. The data systems like Predictive premiums, Lifestyle premiums, Tele health all help to improve the patient’s health by using data continuums (Marie‐Pierre Gagnon, 2009). There are certain data systems developed particularly for the physicians and other medical staff; they are known as Advanced Payment Systems, Computerized Physician Order (CPOE) and Hospital Information System which to manage the administration and clinical aspects of the healthcare systems.

Incorporating technology within healthcare systems has proven to be a success story. These digital technological data collection systems increase the wellness of the patient. It promises personalized medical care by healthcare staff through an informed system of care records. Time is saved through these is data systems as care delivery is maintained in time. Not only cost efficiency is achieved as lesser costs are incurred, but reduced duplication of tests and readmissions are also observed (Ji-Jiang Yang, 2015,). The healthcare delivery is sought to be more competent and well organized as the placement of data; stored in one place and updated regularly. The data collection technologies are accessible to the patients and the healthcare delivery staff anywhere and everywhere with access to the internet (PT Norton, 2019).

Although these data collection systems have lowered the cost and increase efficiency, there are certain risks involved in their usage. The access of the internet stands core to the data collection technologies. Sometimes careless typographical errors or wrong choice of treatment entered in the data portals can result in misinterpretation of the treatment and diagnoses of the patient. The patient's details are present in such data mechanisms however any breach in the data can expose their personal details to those who can use it to exploit them (Charette, 2006). The systems can also collapse due to technical errors at times, in this case, it would lead to the loss of record with no backup of data at all. It is argued that the data collection technologies are costly to implement, although this may be seen as a disadvantage, the implementation of these resources is fruitful in the long run.

# References

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