

## Short Communication

# The success of the implementation of the CPOE in a friendly hospital

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Several reports have shown that Information Technology (IT) improves the quality, safety and efficiency of health care. Initiation for change is usually difficult for fear of failure and adaptation to change and this usually rises with the presence of obstacles that might hinder the process. Such obstacles are the cost and the complexity of the IT implementation. The health care payment policies that funds quantity of services rather than its quality is another obstacle [1].

Computer Provider Order Entry (CPOE) is a process by which a clinician with order writing authority sits at a computer to directly enter patient care orders [2].

Since patient's safety is the utmost concern for any health facility, adopting the Computerized Provider Order Entry (CPOE) would help in the integration of the gaps in the health care system. For instance, if the pharmacist would like to know if this patient has allergy, and it was not written on an ordinary prescription, the CPOE would for example alert the prescriber to jot down any allergies. Another hindrance to acquire the CPOE is the cost; however, as evidence has shown IT systems provide discipline with quality control thus reducing medical errors [3]. Therefore, if we weigh the benefits and the risks on one side and the cost on the other, it would translate on long term cost effectiveness. Medication errors are among the most common medical errors, harming at least 1.5 million people every year; this had been calculated to cost the hospitals alone around \$ 3.5 billion a year for

treating drug-related injuries. Medical errors and adverse drug effects remain a major concern for health care providers and administrators [4].

## Conclusion

For a successful commencement of such a program, the management needs to involve stakeholders during design, ensure data quality, and implement adequate security and privacy. CPOE will improve patient care and safety, will reduce medical errors and will improve the financial health of the hospital. The success of the implementation depends upon the interactions among the hospital administration, medical staff and clinical support services [5]. Therefore, Friendly Hospital when engaged in such a development process will enhance the quality and care provided to its patients and will take eventually a lead in promoting such a system.

## References

1. [http://www.medpac.gov/publications%5Ccongressional\\_reports%5CJune04\\_ch7.pdf](http://www.medpac.gov/publications%5Ccongressional_reports%5CJune04_ch7.pdf)
2. Ash J, Stavri Z, Kuperman G (2003) A consensus statement on considerations for a successful CPOE implementation. *J A Med Inform Assoc* 10: 229-234. [[Crossref](#)]
3. Shulkin D (2003) Using a market model to track advances in patient safety. *Jt Comm J Qual Saf* 29-146-151. [[Crossref](#)]
4. Potts AL, Barr FE, Gregory DF, Wright L, Patel NR (2004) Computerized physician order entry and medication errors in a pediatric critical care unit. *Pediatrics* 113.
5. <http://www.swdsi.org/swdsi06/Proceedings06/Papers/HCT02.pdf>

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