

WEEK 6 DISCUSSIONS

TOPIC 1 DUE MARCH 9th

In what ways can informatics help health care providers overcome current or emerging barriers to care and increase access to safe, quality health care? Include a discussion of the value and challenges of clinical provider order entry (CPOE) and clinical decision support systems (CDSS) in providing safe patient care in your response. Why are heuristic principles (human factors/usability/user centered design) important for efficient clinical information systems such as CPOE and CDSS?

When informatics is used correctly it can help health care providers overcome current or emerging barriers to care and increase access to safe, quality health care. This is done by implementing systems that help with providers' orders and with clinical decisions. The clinical provider order entry (CPOE) and clinical decision support systems (CDSS) are great tools for healthcare providers. The CPOE can assist with utilization of the computer to decrease legibility errors. The downside for the CPOE is that there can be type-o's and work around from the computer automated system. The CDSS can help immediately by providing information for decision making. The CDSS can also prevent a medical error from happening when used with EMR (Electronic Medical Records). Errors can still be made when using these systems, so critical thinking must still be applied when using these systems to make decisions. Heuristic principles (human factors/usability/user centered design) are important for efficient clinical information systems such as CPOE and CDSS because understanding that these systems cannot stop all errors. There is still a human factor that needs to be accounted for. The thought is that the staff may go into "auto pilot" thinking that the system will catch all the errors (McGonigle & Mastrian, 2022).

McGonigle, D., & Mastrian, K. (2022). *Nursing informatics and the foundation of knowledge* (5th ed.). Jones & Bartlett Publishers.

TOPIC 2 DUE MARCH 11th

Discuss the importance of interoperability between EHRs and other disparate systems and the impact on improving quality and access to care. How can workflow analysis be used to identify issues related to interoperability?

Interoperability between EHRs and other disparate systems are important for immediate access to the patients' healthcare chart for any healthcare professional providing healthcare services to a patient. This can save time, money, and prevent unnecessary procedures for diagnosis and treatment. Having an accessible EHR can ensure that the patient receives the right care and attention at the right time. Not only can healthcare providers and healthcare facilities utilize the