

عنوان مقاله:

Modeling computerized physician order entry with decision support system for diabetic patients

محل انتشار:

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خلاصه مقاله:

Introduction: Providing care for patients and preventing complications is one of the major subjects in medical sciences. Computerized Physician Order Entry (CPOE) with a decision support system is expected to deliver many benefits. A system with decision support system may help clinicians, patients, and others to suggest patient-appropriate evidence-based treatment options. The present study was conducted to prepare a conceptual model for a CPOE system of diabetic patients (Type ۲) using Unified Modeling Language (UML). Then, a software program was designed accordingly. **Material and Methods:** This cross-sectional study was conducted in ۲۰۱۷. A minimum data set of patient records was used as the patient profile in the system, and a list of drugs and functional requirements of the CPOE system for diabetic patients was provided. Following the confirmation of the minimum data set by diabetes specialists, UML figures were drawn and the software was designed. **Results:** The minimum data set of patient records included demographic and clinical information as well as laboratory tests. Functional requirements of the CPOE system for type ۲ diabetic patients consisted of the possibility of recording simple and complicated orders, connecting the system to the pharmacy or other auxiliary information systems, controlling drug side effects, etc. **Conclusion:** A CPOE system should have minimum errors in documentations and provide information on allergies, drug interactions, and side effects in a timely manner to reduce medical errors, especially drug errors, increase physician efficiency and patient satisfaction, and finally promote the quality of healthcare services

کلمات کلیدی:

Computerized Physician Order Entry System, Type ۲ Diabetes Mellitus, UML, Minimum Data Set, Computer Systems Development

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