

Interface design of an online Medication Management System

Online medication management holds much promise for reducing drug misadministration errors. System safeguards are needed, however, not only to prevent errors, but to detect and correct them quickly. We applied scientific methods to develop, evaluate, and validate a novel medication management prototype to specifically address error prevention, detection, and response.

Problem/Challenge:

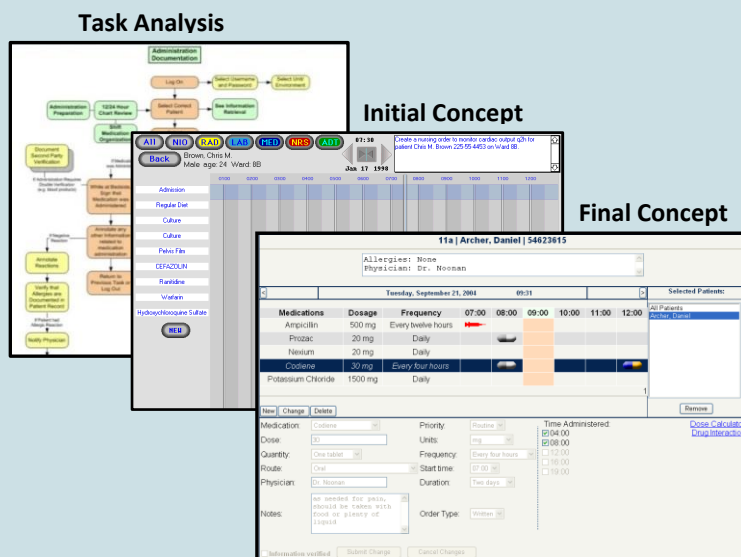
To develop a decision aid for hospital based nurses to reduce medication errors related to time, dose and delivery.

Approach:

Conducted a job / cognitive task analysis; developed conceptual framework; produced functional prototype; conducted usability assessment.

Solution:

Developed an intuitive GUI interface to help schedule, monitor, track, and deliver medications to all patients within a unit.



Benefits of our Approach:

- Rapid evaluation of new concepts
- Improve product quality
- Develop a product that directly supports user needs
- Provides a foundation for intuitive and easy to use product

Nurses' evaluations of a novel design for an electronic medication administration record. CIN: Computers, Informatics, Nursing, 25(2), 67-75