

DIGITILIZATION OF THE MULTIDISCIPLINARY MEDICAL INTENSIVE CARE UNIT CHECKLIST

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Abstract With the wide adoption of the electronic health record systems, it is imperative to incorporate existing paper based checklists in medical practice as part of the electronic health record. It is important that checklist is self-developed, precise and operationally suited.

Wishard-Eskenazi Health Hospital in Indianapolis, Indiana is in the process of automating the MICU checklist.

Introduction and Background Checklists can be effective tool to improve care processes and lead to better outcome. Checklists are common in some medical fields like surgery, intensive care unit and emergency medicine. The implementation of multidisciplinary daily rounding checklist in the intensive care units has been shown to reduce mean ventilation-associated pneumonia, reduce mean catheter-related blood stream infection and in the process improve the quality of care while also reducing cost.

Method The MICU team indicated their interest in automating the multidisciplinary paper-based checklist which they call the ‘Orange Sheet’. The Clinical Informatics team analyzed the workflow of the MICU team after which a meeting with the stakeholders (MICU team) was convened to clarify terms used in the existing paper form and define the functional requirements of the software.

Results Some of the requirements desired were the ability of the software to interact with the users, reminder and prompting ability, messaging features, pre-populate antibiotics, hyperlink to evidence –based practices, leveraging this in multiple spaces (for example order interface) and it’s use as part of nursing care plan.

Conclusion The first meeting between the developers of the electronic medical record system (the New Gopher) raised questions about some of the functional requirements specified which could not be immediately addressed as the developers brainstorm on the design for the project. This project is ongoing and is expected to follow the sequence outlined in the diagram.

