

SCHOOL of NURSING

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Background

- Wearable diabetes technology (insulin pump, CGM) evolving rapidly and increasing utilization of Automated Insulin Delivery (AID) mode
- Professional societies endorse and patients prefer continuation of insulin pump systems during hospitalization
- June 2021, The Joint Commission (TJC) issued Quick Safety 59 which included recommendation that organizations implement a process to validate accuracy of CGM compared to hospital approved glucometer

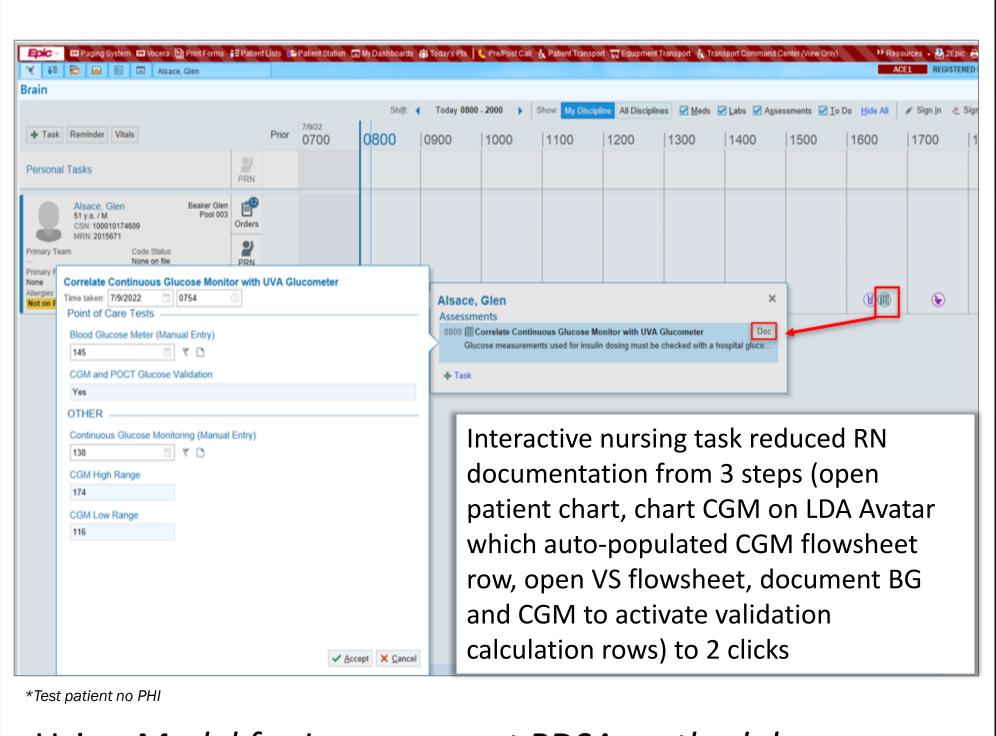
Goal

The purpose of this project was to increase the percentage of patients admitted to the hospital wearing an insulin pump and a continuous glucose monitor (CGM) who have their CGM validated against the hospital approved glucometer per the institutional Clinical Practice Guideline (CPG)

Review of Literature

 Clinical Decision Support (CDS) embedded in the electronic health record (EHR) that provides actionable information can improve nursing process outcomes

Intervention

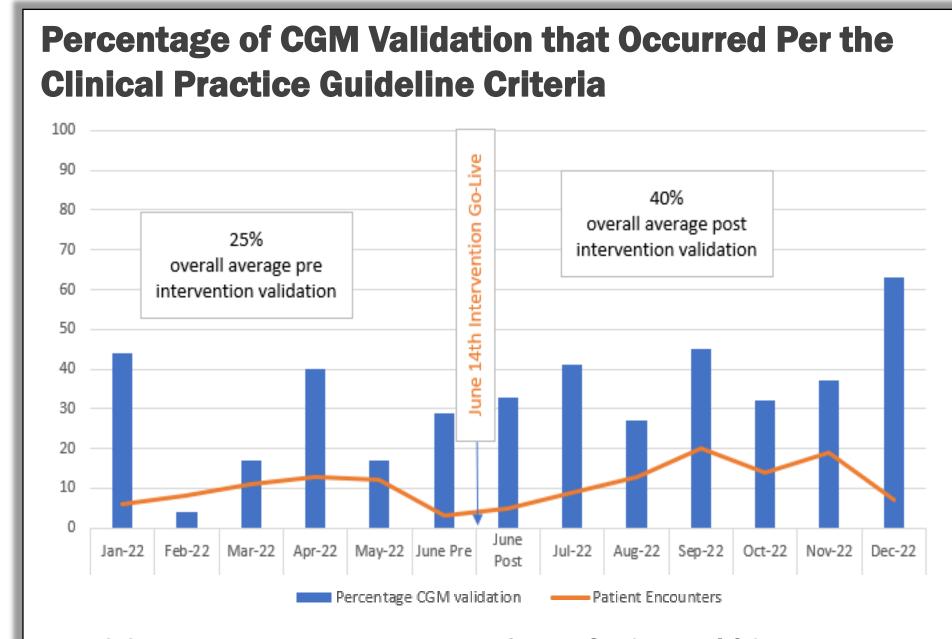


Using Model for Improvement PDSA methodology, we implemented CDS in the form of an interactive nursing task integrated into standard nursing workflow

References

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Results



- CGM validation <u>improved from 25% to 40%</u>
- 71 out of 89 post implementation patient encounters continued AID mode during hospitalization

Evaluation

- CDS targeting nursing practices can improve compliance with CPGs
- Contextual factors within EHRs such as customization within modules impacts effectiveness of CDS
- Opportunities for repeat PDSA:
 - ✓ Tailoring documentation to different modules in EHR that don't utilize nursing workspace
 - ✓ Targeting admission workflow for CGM validation documentation