I Spy with My Little Eye… an iPad!

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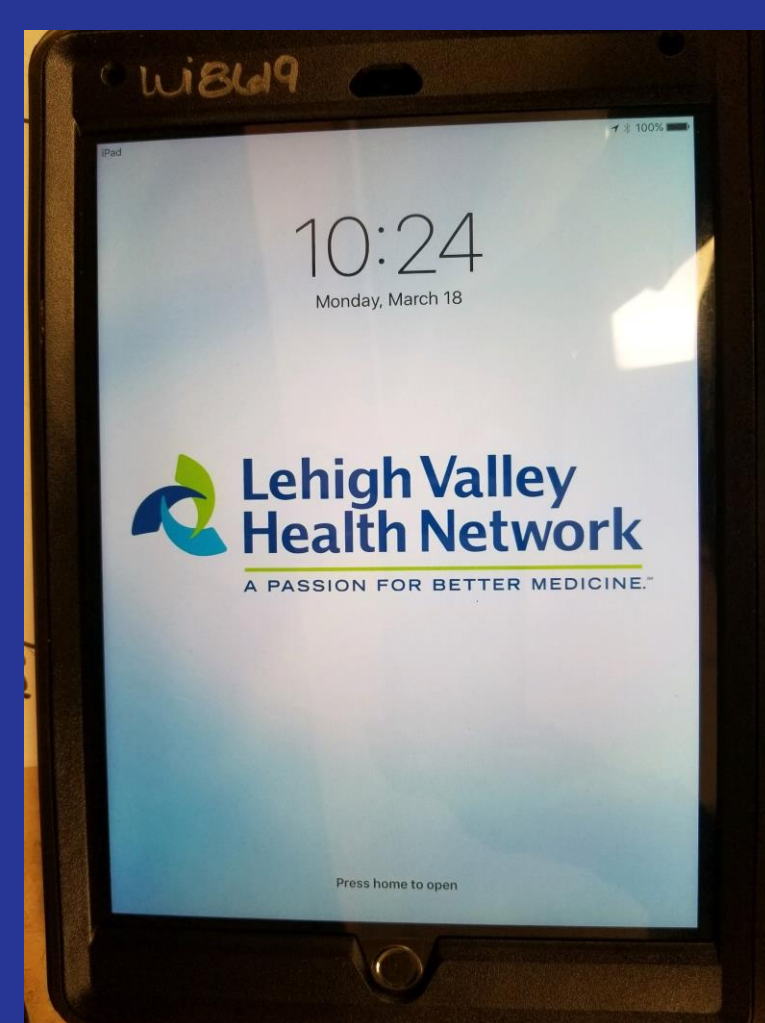Dina Meaney ADN, RN
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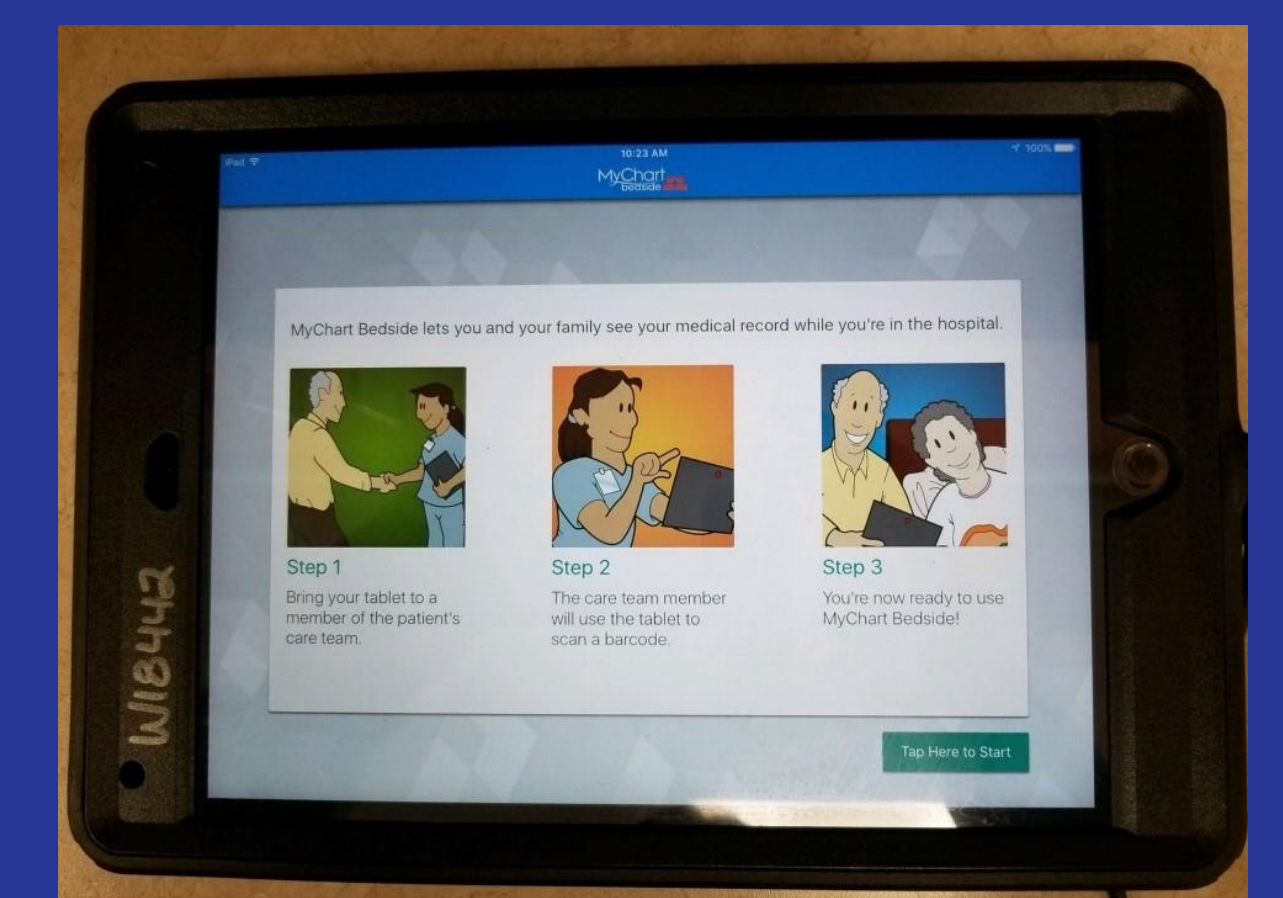
I Spy with My Little Eye… an iPad!

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Background and Purpose

BACKGROUND
- Patient education is important and required by accrediting institutions
- iPads on ICU-M and RHCM units are not being utilized on a consistent basis
- Nurses don't have a patient inclusion and exclusion screening tool for iPad use
- Nurses are not aware of available iPad resources

- The purpose of this EBP project is to evaluate the effect of nursing staff education, exclusion criteria, and interprofessional workflow on the frequency of implementation of iPads by nurses in the critical care and progressive care settings.

PICO Question

- For critical care and progressive heart care nurses, will education, exclusion criteria, and an interprofesional workflow process increase the number of iPads provided to patients compared to current usage rates?

- P: critical care and progressive heart care nurses
- I: nursing staff education, exclusion criteria, and an interprofessional workflow
- C: current practice
- O: increased implementation of iPads for patients

Evidence

- Gonzaga (2018) and Yildiz et al. (2018) found that when patients are given education based on a pre-education knowledge deficit, learning information is retained.
- Bulmer et al. (2001) found that 65% of patients studied preferred the computer-generated information system over the traditional leaflets platform.
- Sutherland-Fraser, McInnes, Maher, & Middleton (2012) and Sheffer, Barone, & Anders (2011) used pre- and post- test/survey/ questionnaire designs to show that nurses showed significant improvements in knowledge, assessment, and actions after education materials were provided. Nurses' attitudes, knowledge, and behaviors also improved post-education.

Implementation Plan

- Conduct a short pre-survey for ICU-M and RHCM nurses
  - Self-reported knowledge and practice regarding iPads prior to interventions - 90 surveys provided, 41 total surveys returned
- Develop and distribute a screening tool using exclusion criteria to determine if patient is a candidate for iPad use
  - Encourage ICU-M and RHCM nurses to use screening tool for all patients - 90 screening tool sheets provided
- Require nurses to report iPad use during huddle for two months
  - Collaborate with APs and ULs to champion this project
- Conduct a short post-survey for ICU-M and RHCM nurses
  - Self-reported knowledge and practice regarding iPads after interventions - 41 surveys provided, 29 total surveys returned
- Compare pre- and post-intervention iPad usage

Exclusion Criteria

Exclusion criteria was used to assess patients for iPad appropriateness. If the patient met one or more of the exclusion criteria, it was deemed they were not a suitable candidate for iPad use.
- Exclusion criteria included:
  - Cognitive or behavioral impairments (delirium/CAM positive, psychosis, CIWA > 8, sedation, altered level of consciousness, mitts, restraints)
  - Contact Precautions (per policy)
  - Hospice or palliative services
  - Patient or family refusal

Barriers

There were two main barriers to completing this project:
- Many patients in ICU-M are not eligible to use the iPads based on the screening tool developed
- The RHCM iPad log managed by the administrative partners (APs) was not consistently documented
  - For a period of time only one AP had access to the online log
  - The log was transferred to a paper copy to allow all APs to document
  - From discussion with APs, some forgot to update the log, potentially skewing the results

Results

iPad Usage — Pre-Intervention / Post-Intervention (ICU, RHCM)
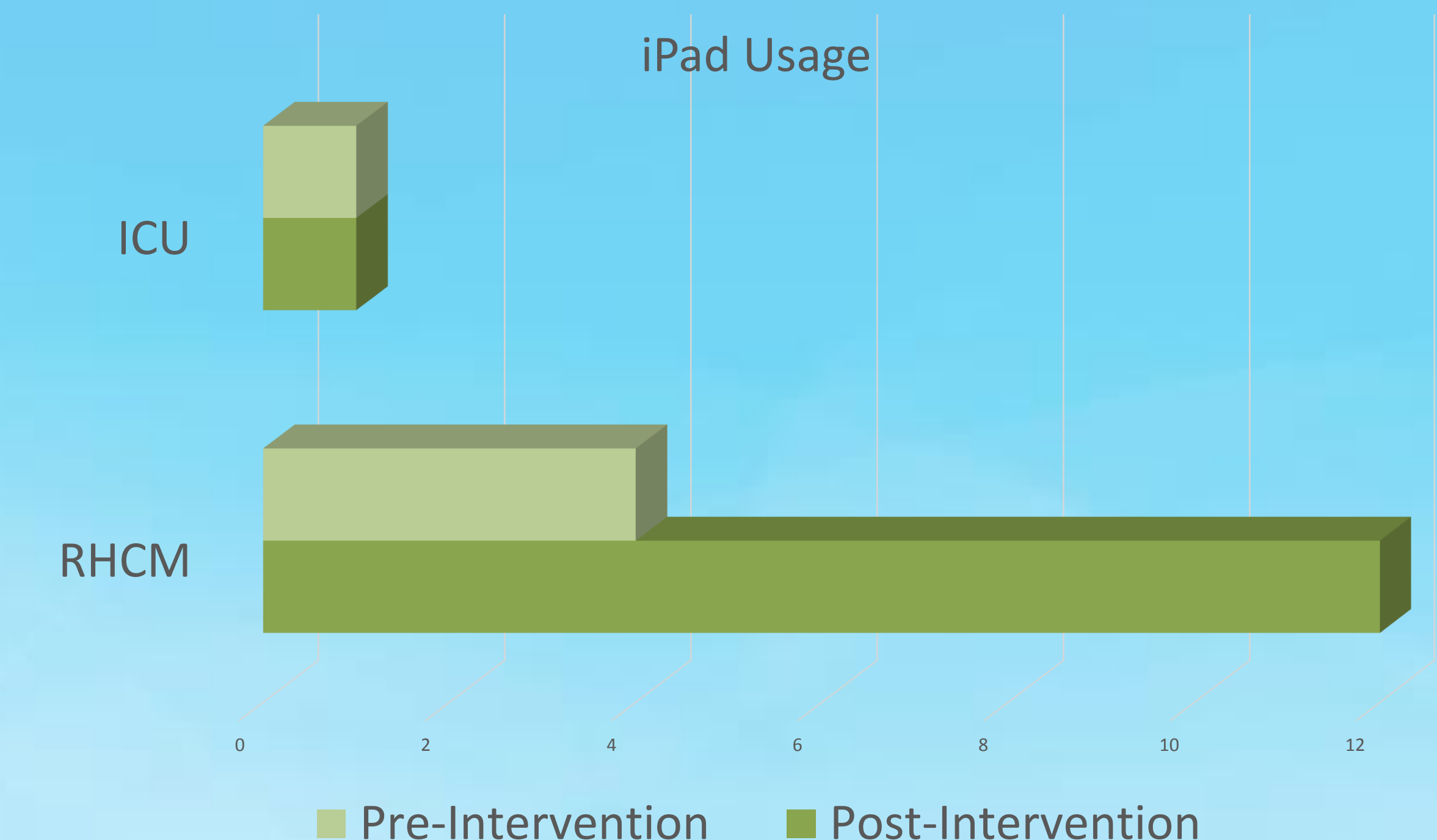
Conclusion and Next Steps

CONCLUSION
- iPad use increased overall after providing education sheets and a screening tool to the staff.
- Based on the surveys completed by the nurses, after the interventions nurses reported:
  - Increased frequency of encouraging patients to use iPads
  - Feeling more comfortable assessing patients for iPad use
  - Feeling the screening tool was helpful

NEXT STEPS
- Educate RHCM APs regarding using paper log to record iPad usage

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