

Background

Complete and accurate documentation provides a clear picture of a patient's condition and their responsiveness to treatment and care decisions. Nurses encounter time constraints and interruptions throughout their shifts that may impact documentation and completeness.

Time constraints and interruption during shift may impact documentation and completeness.

- Two inpatient unit implemented an artificial intelligence (AI) application that utilizes voice charting and integrates with the organization's electronic health record to boost the documentation compliance and decrease paperwork.
- Pain reassessment compliance rate in Unit 1 (6 South) was 93% and Unit 2 (8 South) was 94% pre intervention. Compliance is defined as a complete pain reassessment within 60 minutes after pain medication administration to ensure efficacy of pain management treatment.

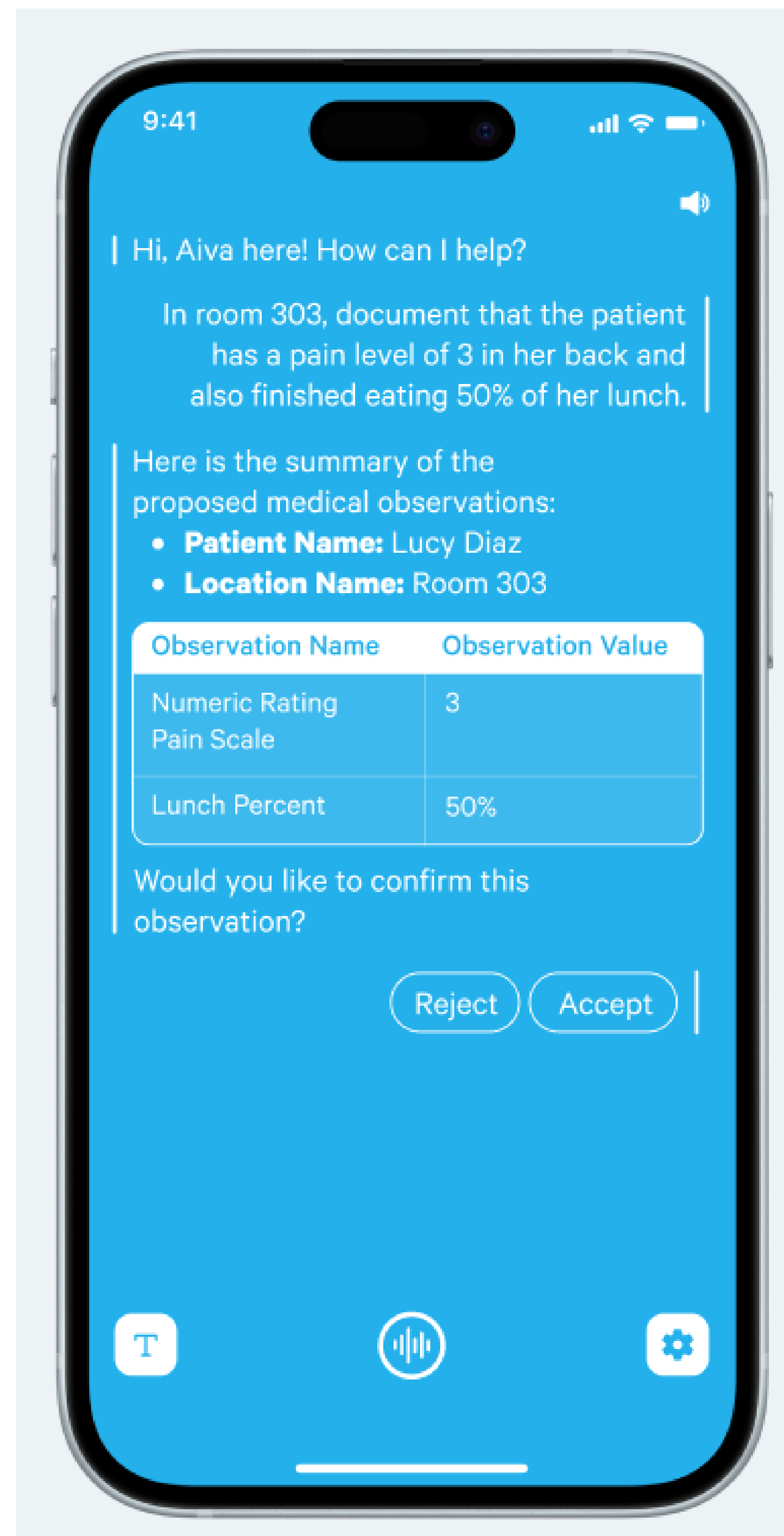


Figure 2
AI Application Snapshot

AI Voice Charting Interface

- Captures voice documentation of assessments.
- Able to set reminders for timely documentation.
- Integrates with electronic health record.

Results

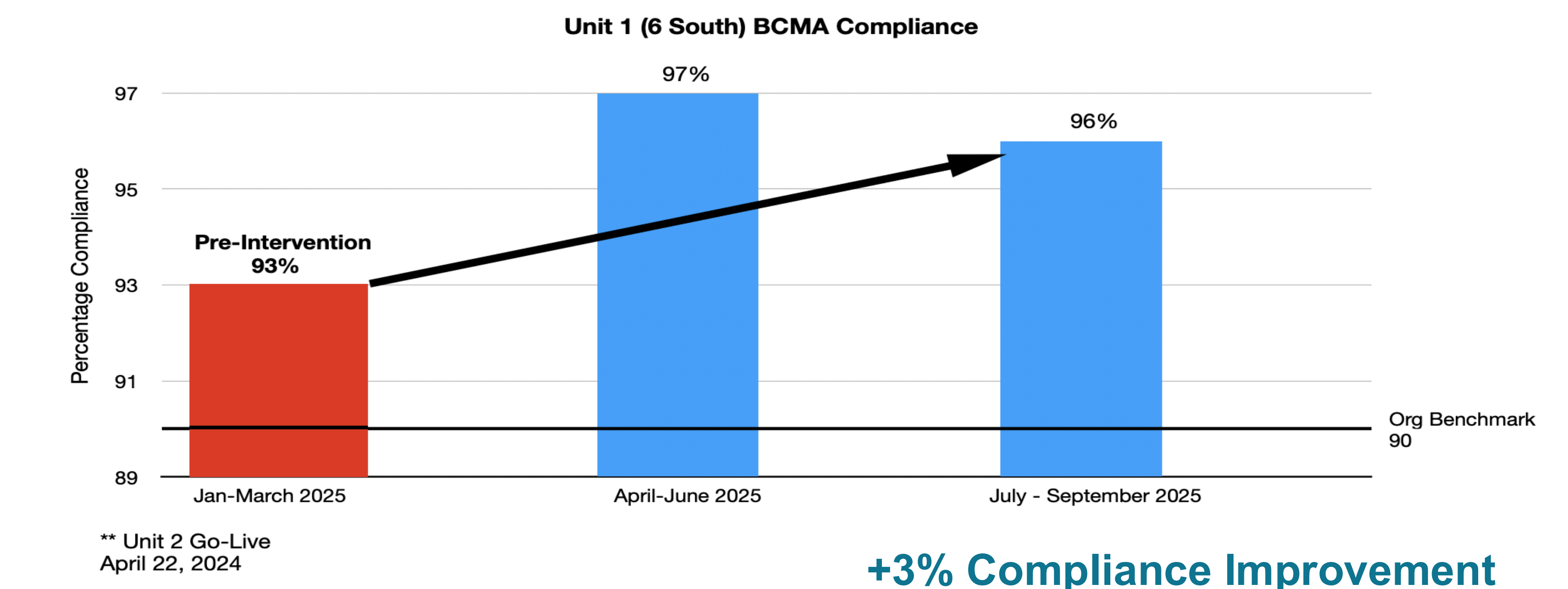


Table 1
Unit 1 (6 South) BCMA Compliance

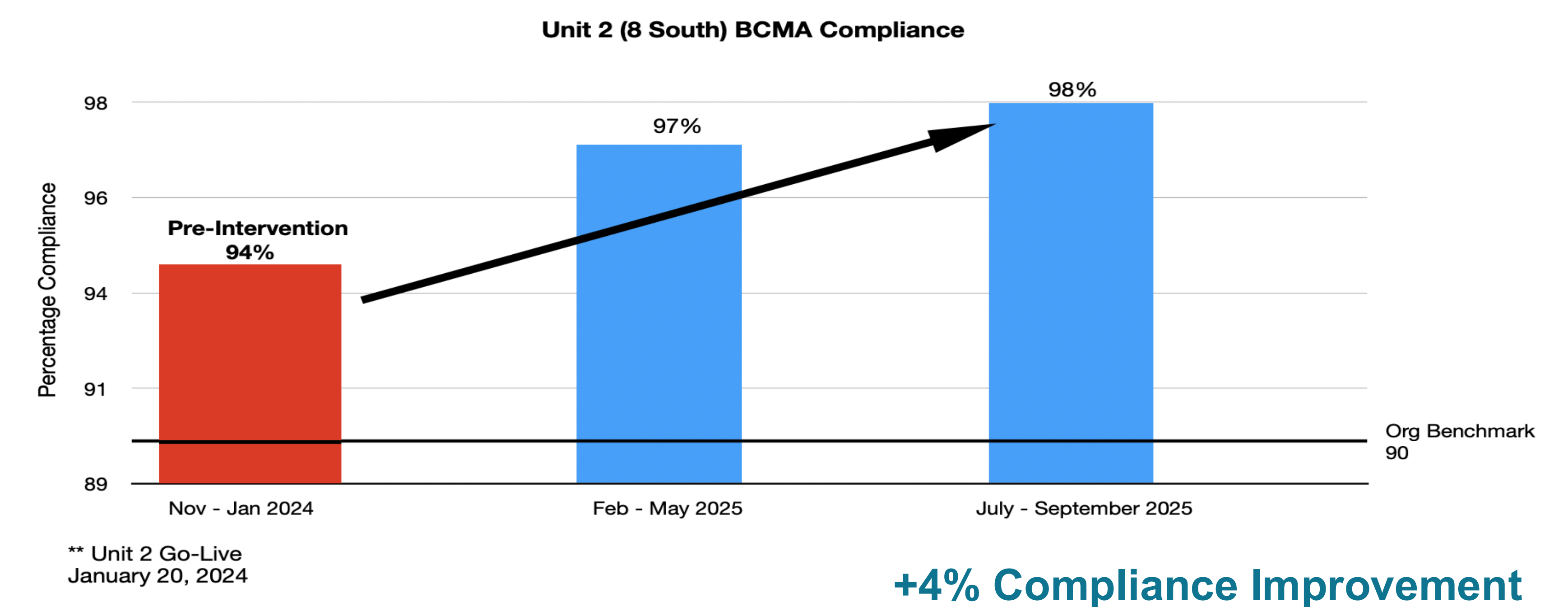


Table 1
Unit 2 (8 South) BCMA Compliance

SMART Aim

Increase pain reassessment documentation
>2% above baseline
 within **3 months** using AI voice charting

Implementation

- Nurses were to document post pain intervention as part of the standard practice of utilizing AI application voice charting.
- Education given through skills lab, in-services and 1:1 nursing education.
- Pain assessment badge buddy was created as a quick reference for proper voice prompting for accurate voice documentation.
- Nursing leaders partnered with artificial intelligence engineers to upgrade the application, adding features that allow staff to set documentation reminders and receive prompts on missing field.



Figure 1
AI Application

Conclusions

- Improved pain reassessment compliance documentation.
- Improved workflow for easier documentation.
- Ensured compliance of critical documentation impacting quality nursing care and care decisions.
- Demonstrates scalable AI integration to improve nursing documentation compliance across other nursing units.

Nursing Implications

The implementation of an AI-enabled voice dictation application demonstrated improved compliance with pain reassessment among unit staff. By streamlining nursing workflows, the application facilitated more efficient documentation, supporting adherence to critical documentation standards that influence quality of care and clinical decision-making.

