



Targeting Medication Reconciliation Completion Rates via Resident Education

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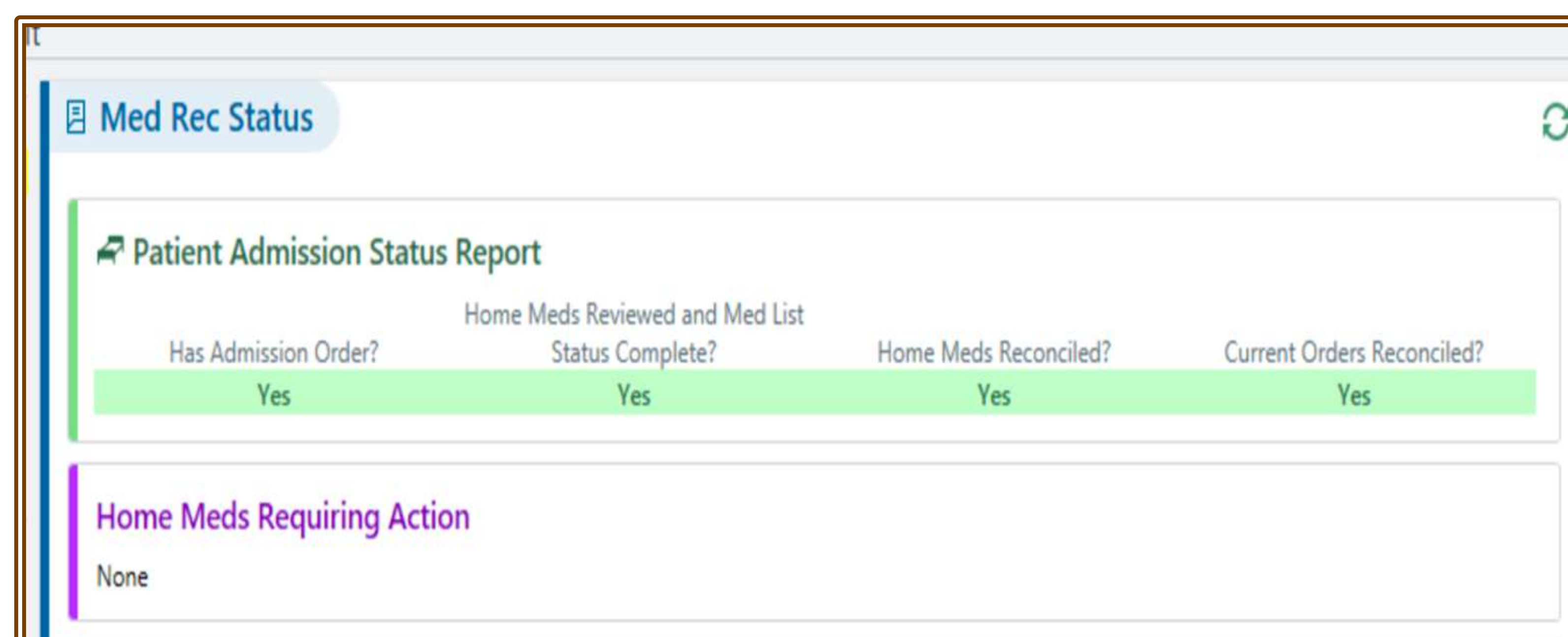


Background

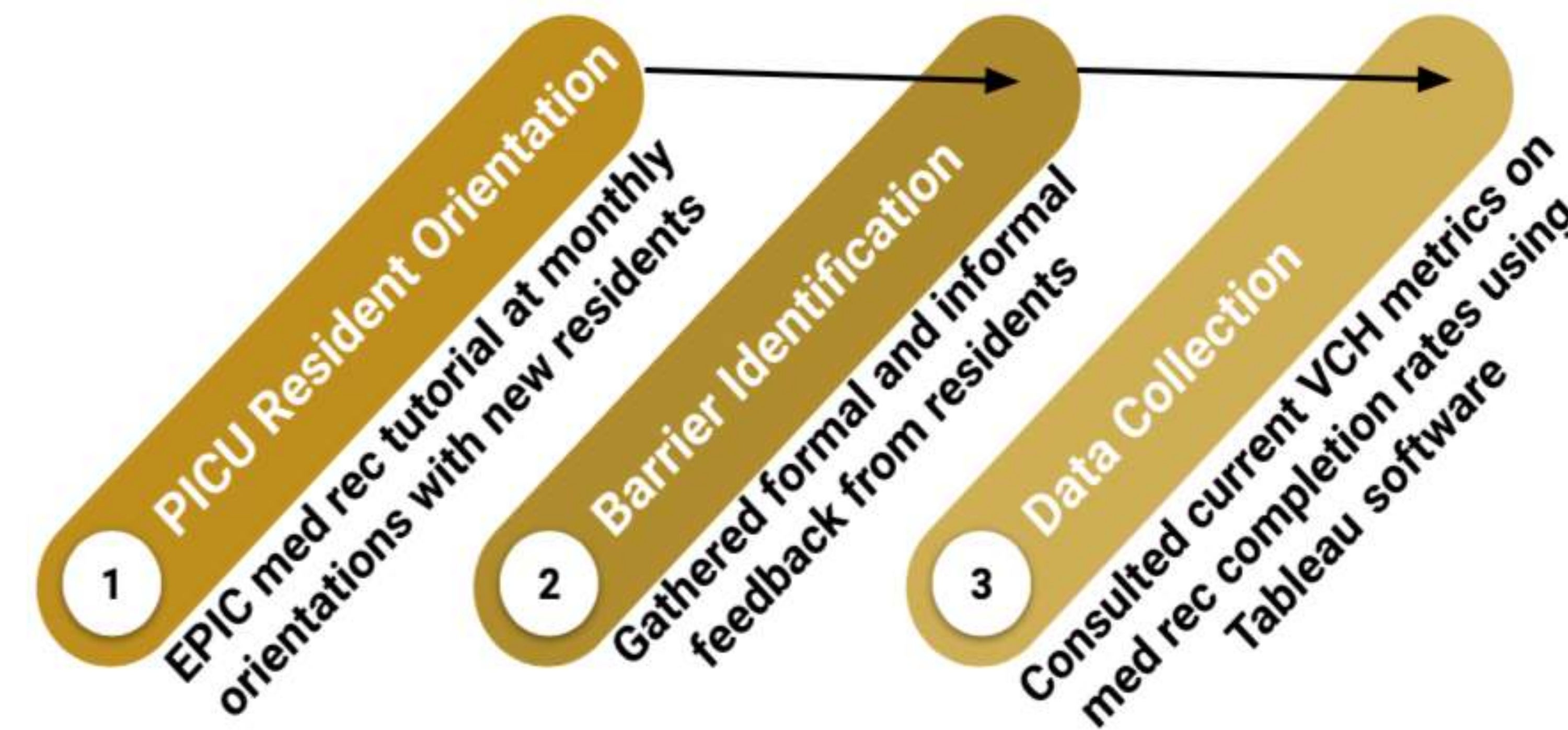
- ❖ Medication reconciliation is a National Patient Safety Goal¹ and a WHO High 5 standard²
- ❖ 50% of medication errors occur at admission, transitions, or discharge³
- ❖ Review of potential adverse drug events in pediatric ICUs show:
 - 45% were made in admission history⁴
 - 55% were errors in order reconciliation⁴
 - 45% were dosing errors⁴
- ❖ Best Possible Medication History → Best strategy⁵
 - Outside pharmacy, hospital and patient records reconciled against one another⁵
 - Involvement of EMR programs, physicians, nurse practitioners, RNs, pharmacy staff and the patient⁶
- ❖ Vanderbilt tracks rates of 100% reconciliation within 24 hrs of admission to the PICU in EPIC

Aim

- ❖ Improve rates of complete medication reconciliations for new patients admitted to the PICU from the current 80% to 90% by March 2020 by providing education on EPIC functions and medication reconciliation to residents.



Interventions and Measures



Results

Completion rate data was collected weekly. 'Successful' week = med rec completion at 90% goal

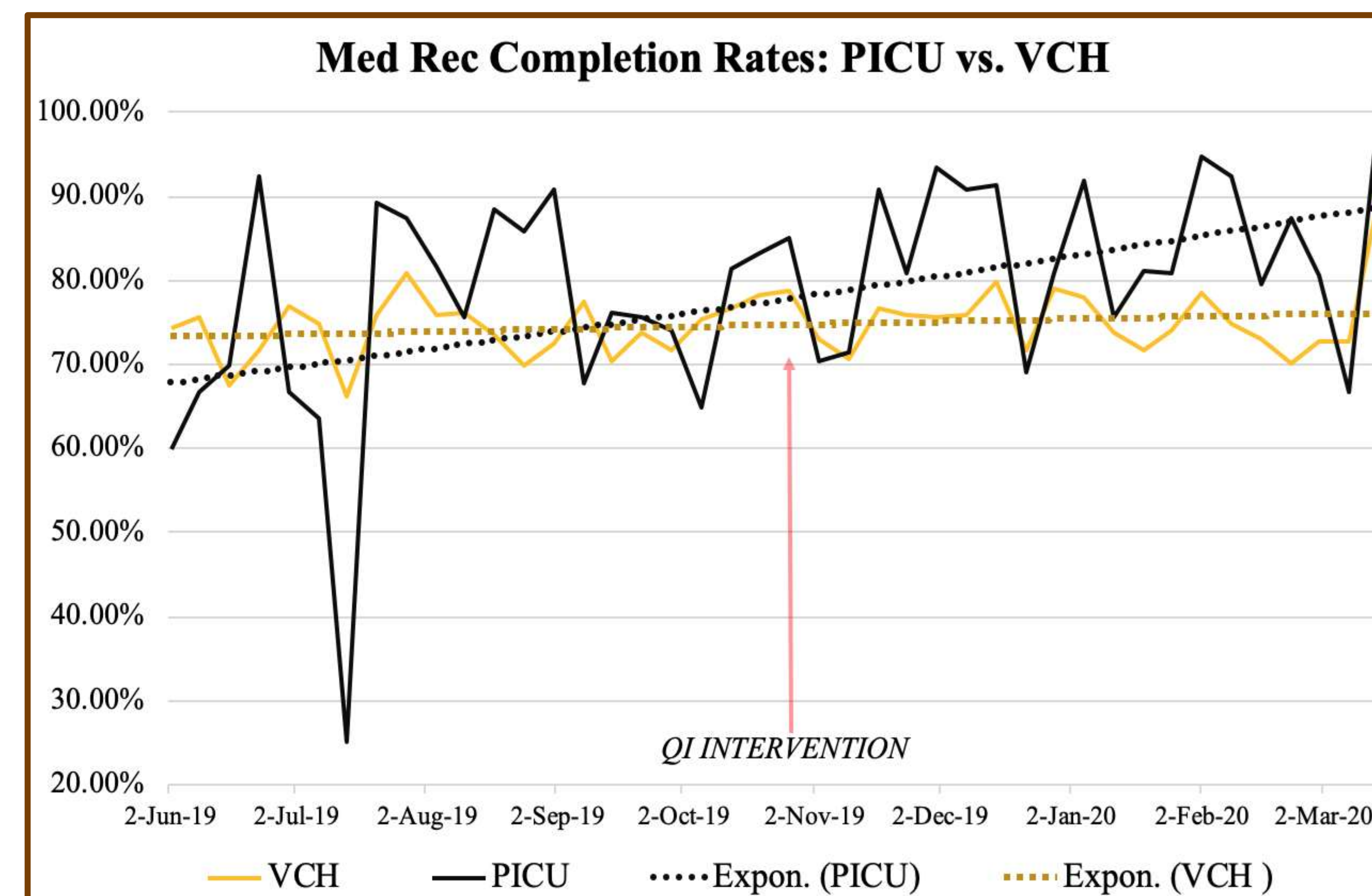
❖ **August 4, 2019 - November 24, 2019**

➢ **11.8% of weeks were 'successful'**

Intervention initiated November 20, 2019

❖ **November 24, 2019 - March 15, 2020**

➢ **41.2% of weeks were 'successful'**



Barriers

- ❖ EPIC functionality - some data did not carry over into subsequent reconciliation forms
- ❖ Holiday schedule - some residents working in this time did not receive med rec training
- ❖ Potentially missed long term patients
- ❖ VPIL cohort missed one orientation session
- ❖ COVID-19 clinic withdrawal

Conclusions

- ❖ Successes
 - Medication Reconciliation completion rate increased over time
 - PICU rate increase > VCH rate increase
- ❖ Future plans
 - All monthly orientations with rotating PICU residents will include Med Rec education
 - Encourage future VPIL cohort to continue

Acknowledgements

- ❖ Pediatric Critical Care Unit, Monroe Carell Children's Hospital at Vanderbilt
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- ❖ PICU Medication Reconciliation Work Group

References

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