



COVID-19 AND INFECTION PREVENTION Preakness Healthcare Center- Wayne, NJ

In recognition of exemplary performance in improving adherence to hand hygiene guidelines.



Preakness Healthcare Center
A Legacy of Caring Since 1929

REDCap Hand Hygiene Infection Control Quality Improvement Project - Sustained Reporting of Adherence to CDC Competency Assessments and Observation Audits Over Time

BACKGROUND

Preakness Healthcare Center (Preakness) is licensed as a 406-bed skilled nursing facility owned and operated by the Passaic County, New Jersey Board of County Commissioners. The facility offers sub-acute care, physical rehabilitation, long-term care, behavioral management, ventilator/respiratory care, hospice and palliative care, and respite services. Preakness has been providing high-quality healthcare since 1929.

Resident-to-resident transmission of organisms in nursing homes occurs via healthcare personnel, who may transiently carry and spread organisms on their hands or clothing during resident care activities. The CDC has outlined the 6 moments for healthcare provider hand hygiene and the steps necessary for hand hygiene competency.

This project aims to promote improved hand hygiene behavior by educating, observing, and auditing hand hygiene practices. The use of automated data collection and reporting are utilized to decrease provider burden. This process will generate data to confirm that the staff know “How” and “When” to complete hand hygiene.

APPROACH

The IPRO QIN-QIO developed

- A REDCap resource to collect hand hygiene competency and observation data.
- A Tableau online data visualization resource was developed for data reporting, identifying areas for improvement and providing reports for monthly QAPI meetings.

The CDC’s education guidance for hand hygiene with soap and water and hand hygiene with alcohol-based hand rubs was used as content for competency assessments.

The CDC 6 moments of Hand Hygiene were used as content for the observation audits in REDCap.

RESULTS

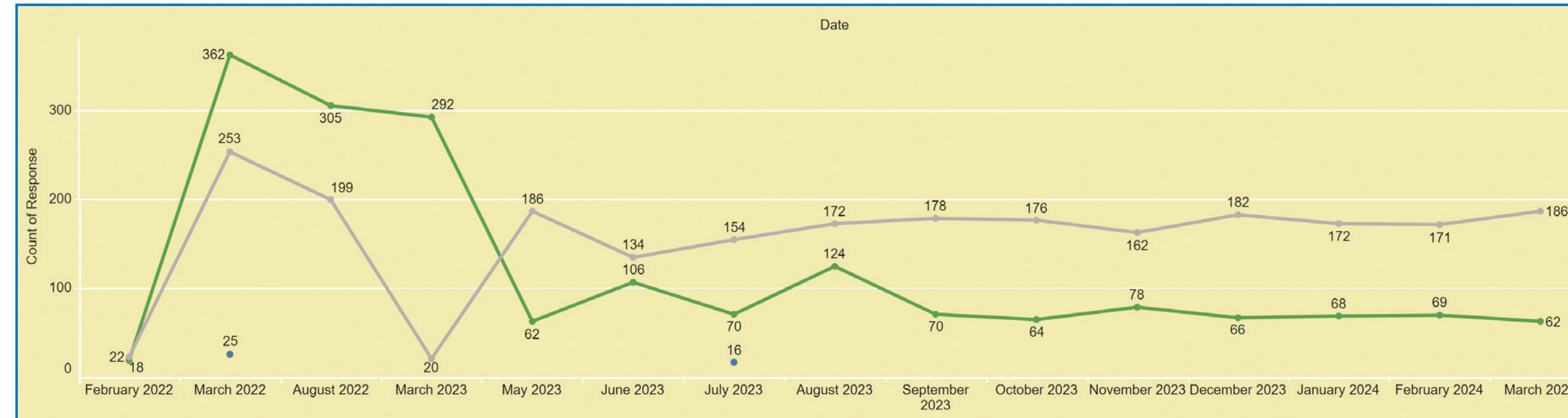
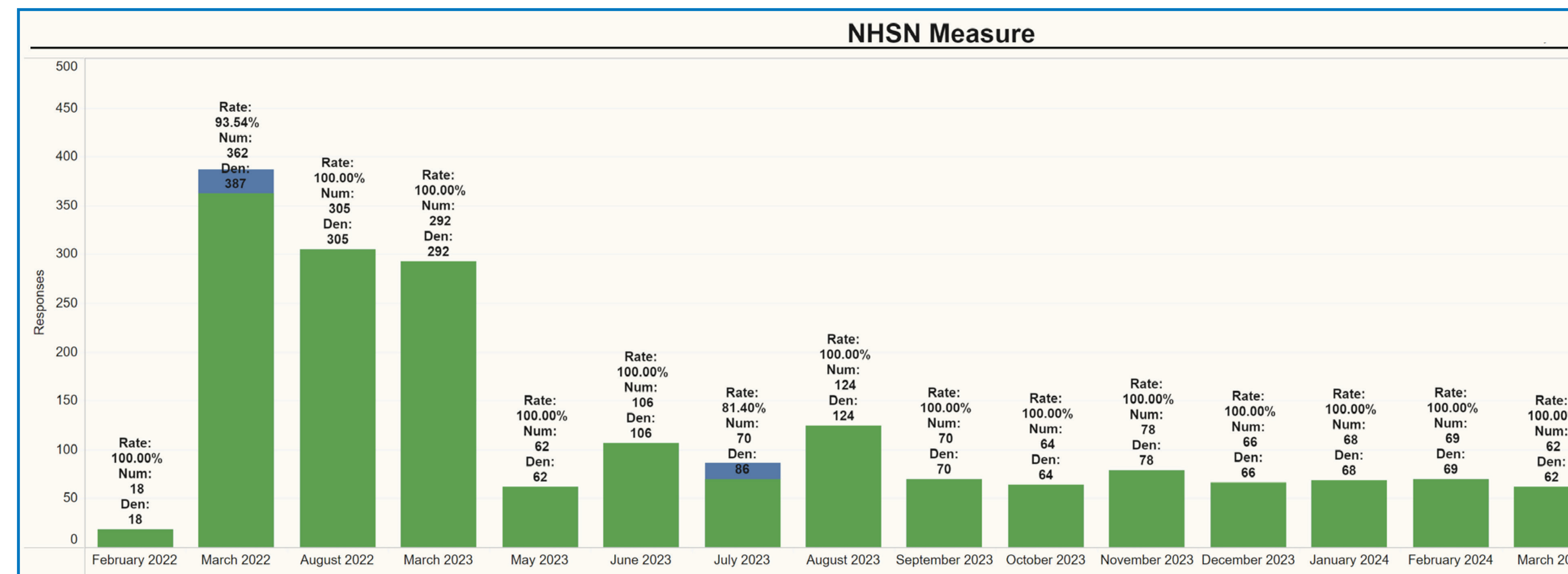


Tableau run chart showing sustained adherence to hand hygiene over time. The green line shows the “yes” responses and the gray line the “Not observed” responses, and blue data points show the “No” responses.



Preakness served as a pilot site for the development of a NHSN report. This report is available for all participating NHs to easily identify the numerator and denominator for the NJ required reporting in NHSN.

This graph shows a consistent decrease in “No” responses over time and sustained “Yes” responses.

CONCLUSIONS

- A total of 463 Hand Hygiene Competency assessments and 528 observations have been completed since 2022.
- Preakness has demonstrated that a large NH can conduct regular competency assessments and observation audits.
- The REDCap and Tableau automation decreased provider burden in data collection and reporting.
- Tableau reports have been utilized to complete hand hygiene NHSN reporting and reports for monthly QAPI meetings.
- Preakness providers collaborated on the development of a new module on the topic hand hygiene during wound care. The new module was released in April to all project participants. The Preakness team will serve as consultants for the development of Tableau reports for monthly QAPI meetings.
- Preakness has most recently served as a consultant on the development of a new module for the Nursing Home Covid-19 and Infection Prevention project on the topic of infection control and hand hygiene during wound care. The new module was released in April 2024 to all project participants.

REFERENCES

Guideline for Hand Hygiene in Healthcare Settings. Recommendation of the Healthcare Infection Control Practices Advisory Committee and the HICPAC/SHEA/APIC/IDSA Hand Hygiene Task Force. MMWR 2002; 51:RR16.

CDC Hand Hygiene Guidance. <https://www.cdc.gov/handhygiene/providers/guideline.html>

CDC Healthcare Provider Hand Hygiene Guidance. <https://www.cdc.gov/clean-hands/hcp/clinical-safety/index.html>

CDC 4 E’s of an Effective Hand Hygiene Program <https://www.cdc.gov/clean-hands/hcp/training/index.html>