

Nurse-Led Interdisciplinary Antimicrobial Stewardship Rounds

Mary Bette Forte, DNP, RN-C, PCCN --- Rachel McClanahan, DNP, RN, NCSN, CNE and Penny Weismuller, DrPH, RN

Background

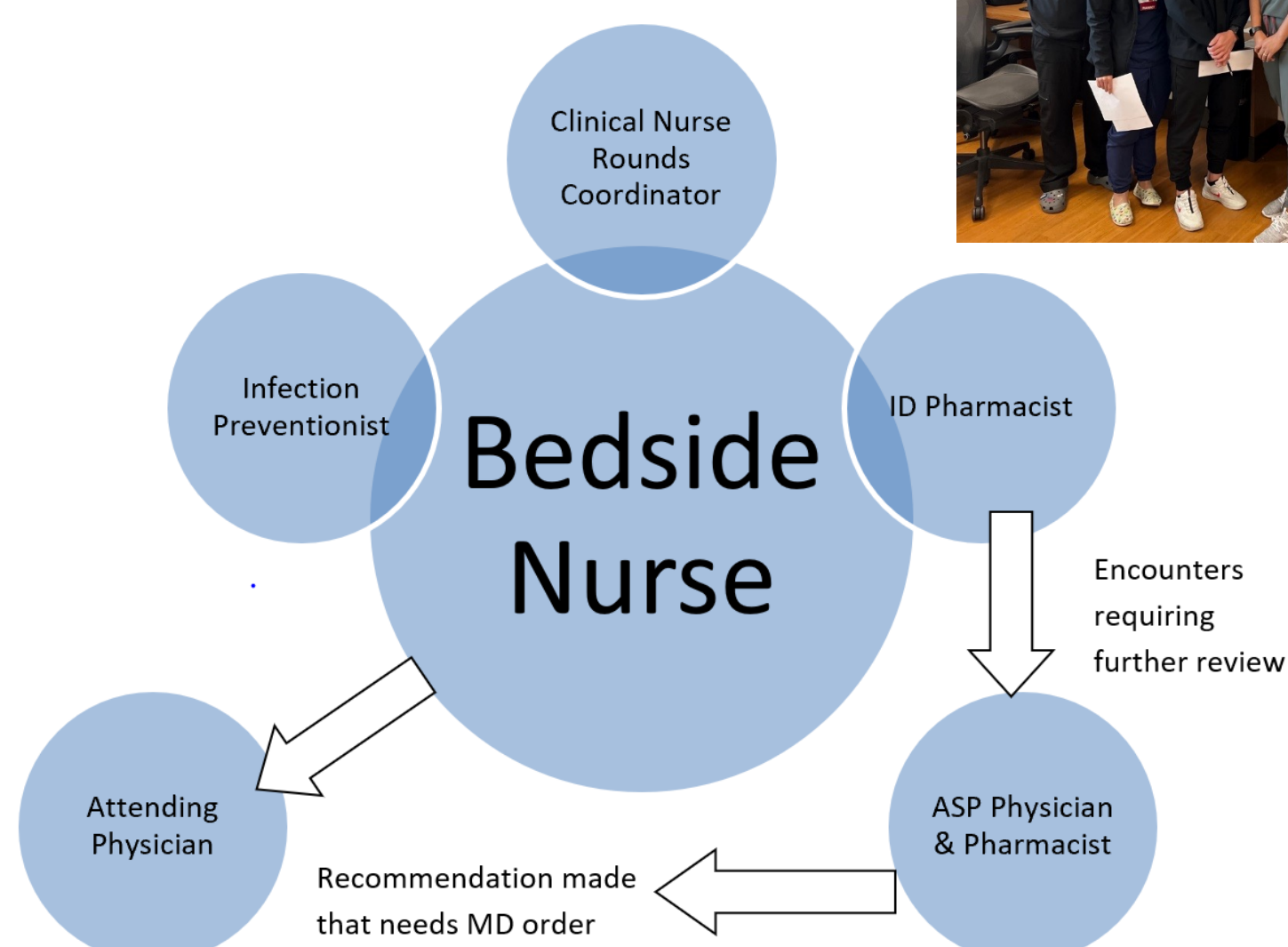
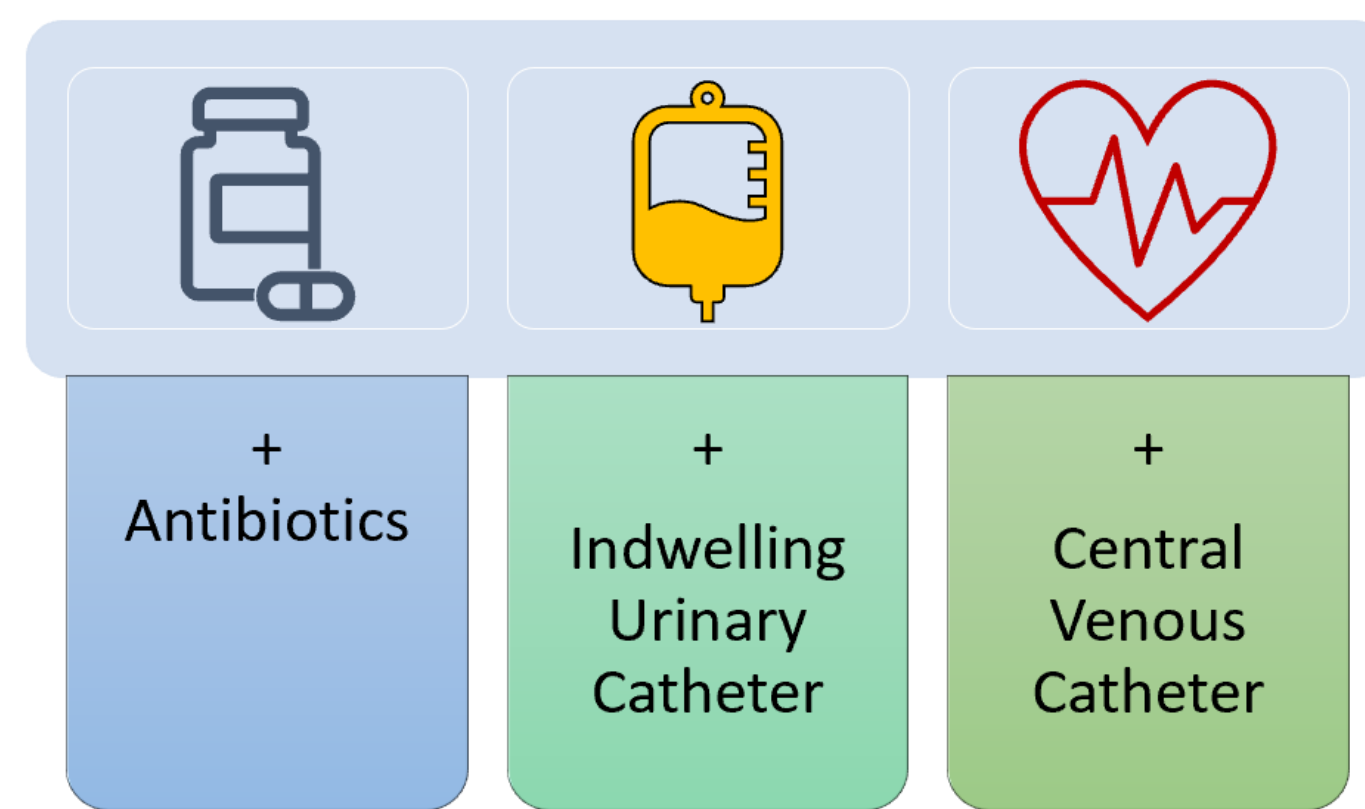
- About 2.8 million people annually in the US are diagnosed with a multi-drug resistant organism (MDRO), causing increased costs and mortality rates
- The overuse and misuse of antimicrobial therapies are factors to the rise in MDROs, causing antimicrobial resistance (AMR)
- Antimicrobial Stewardship Programs (ASPs) can help decrease AMR within the healthcare setting.

Purpose

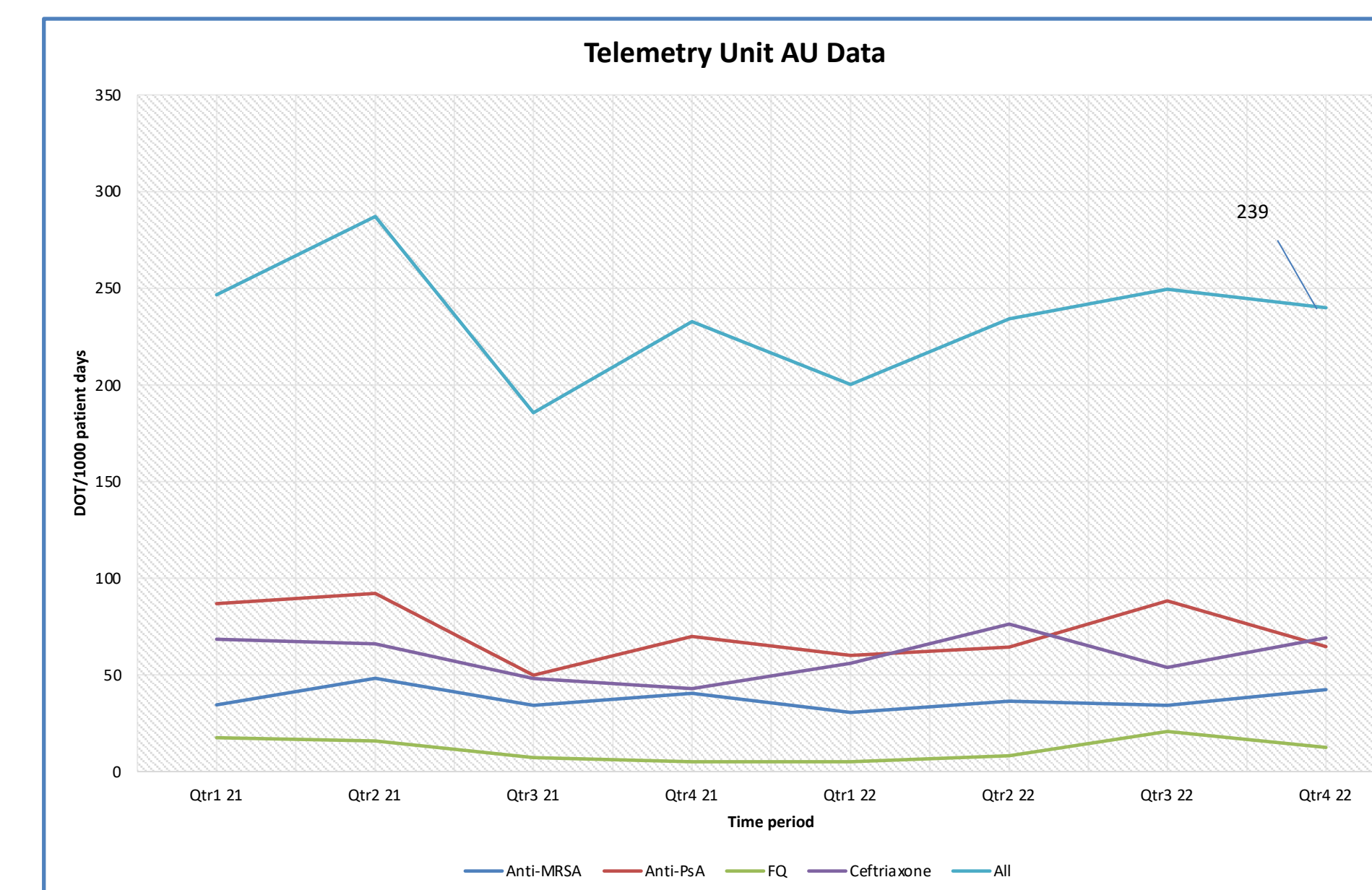
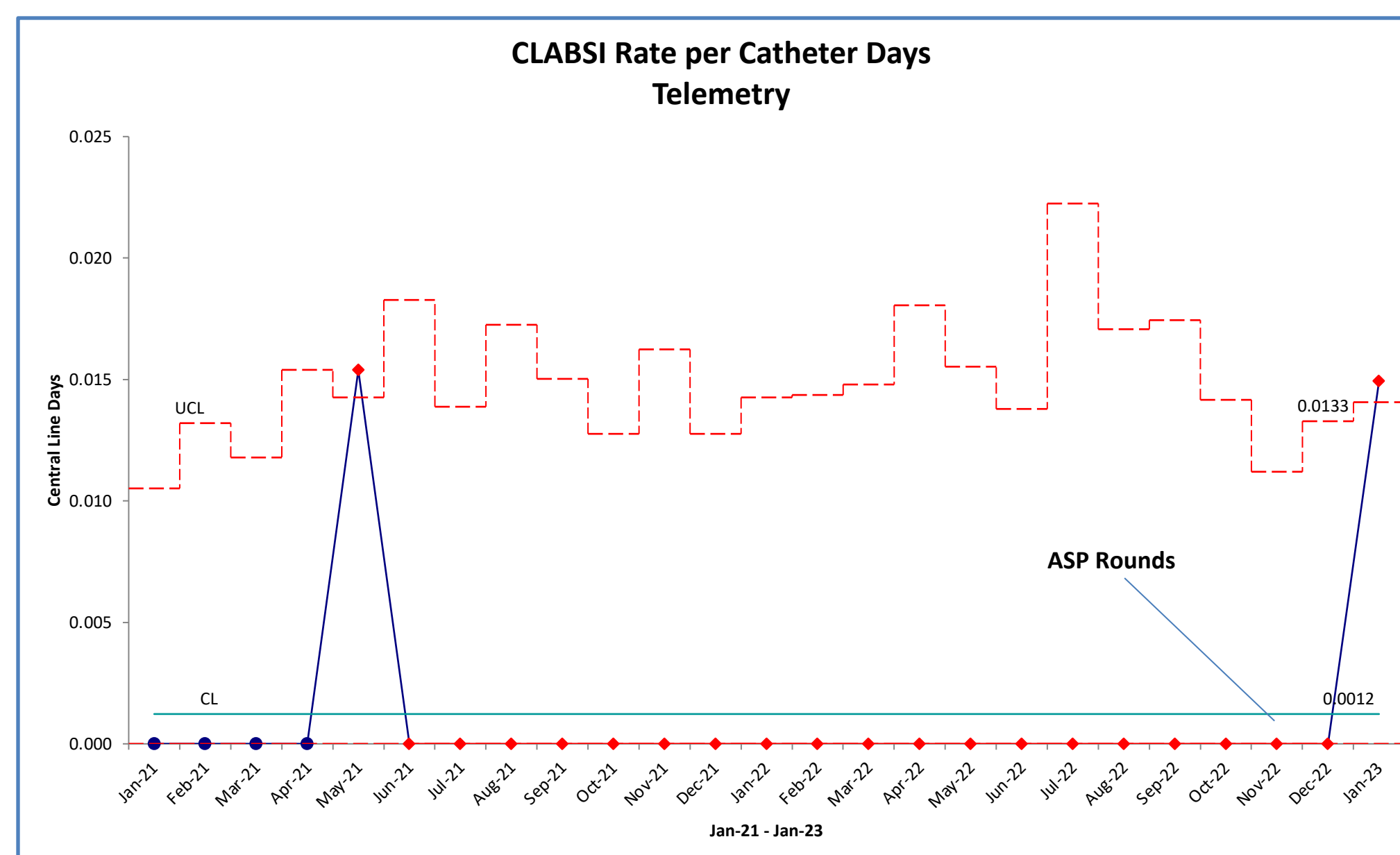
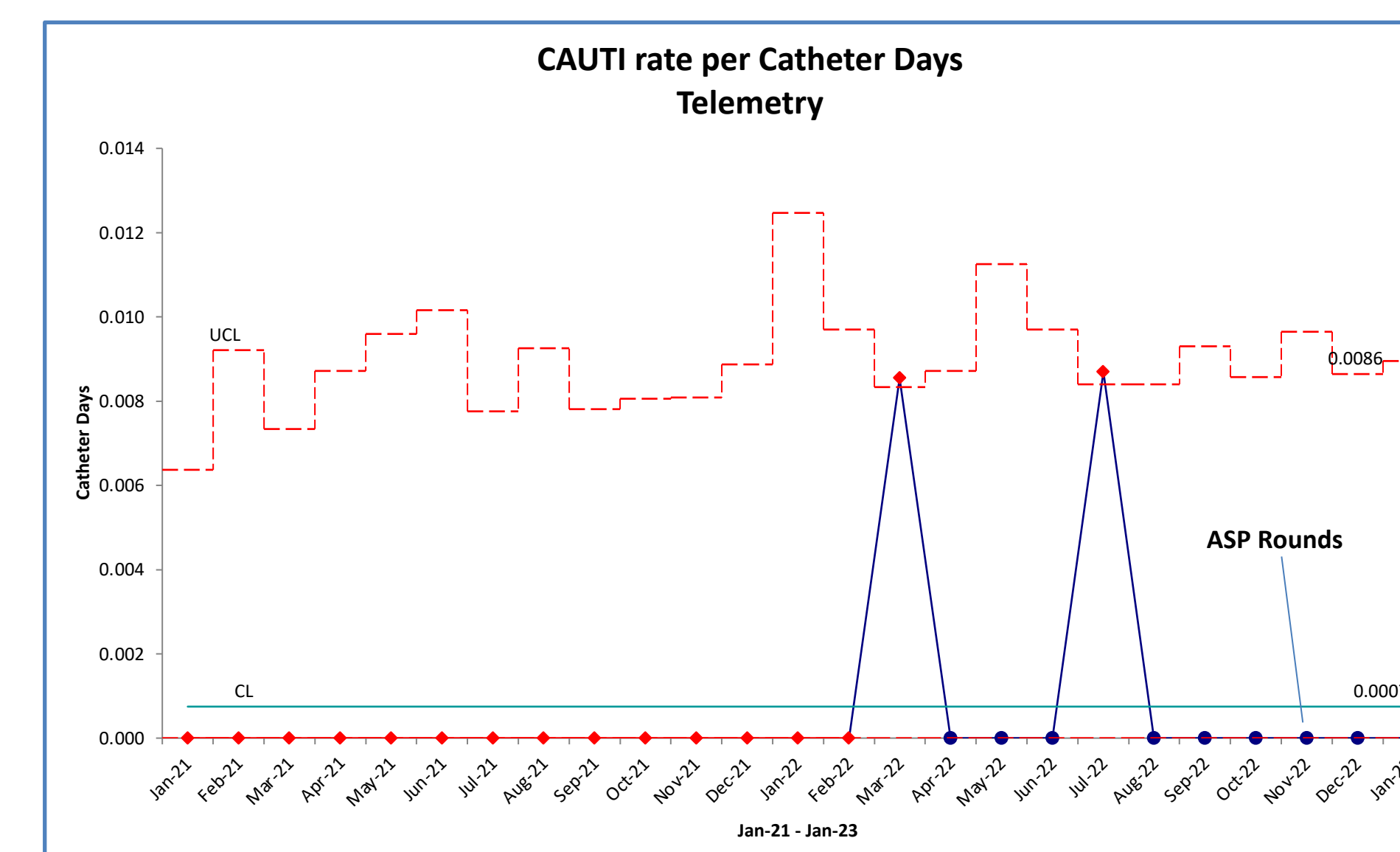
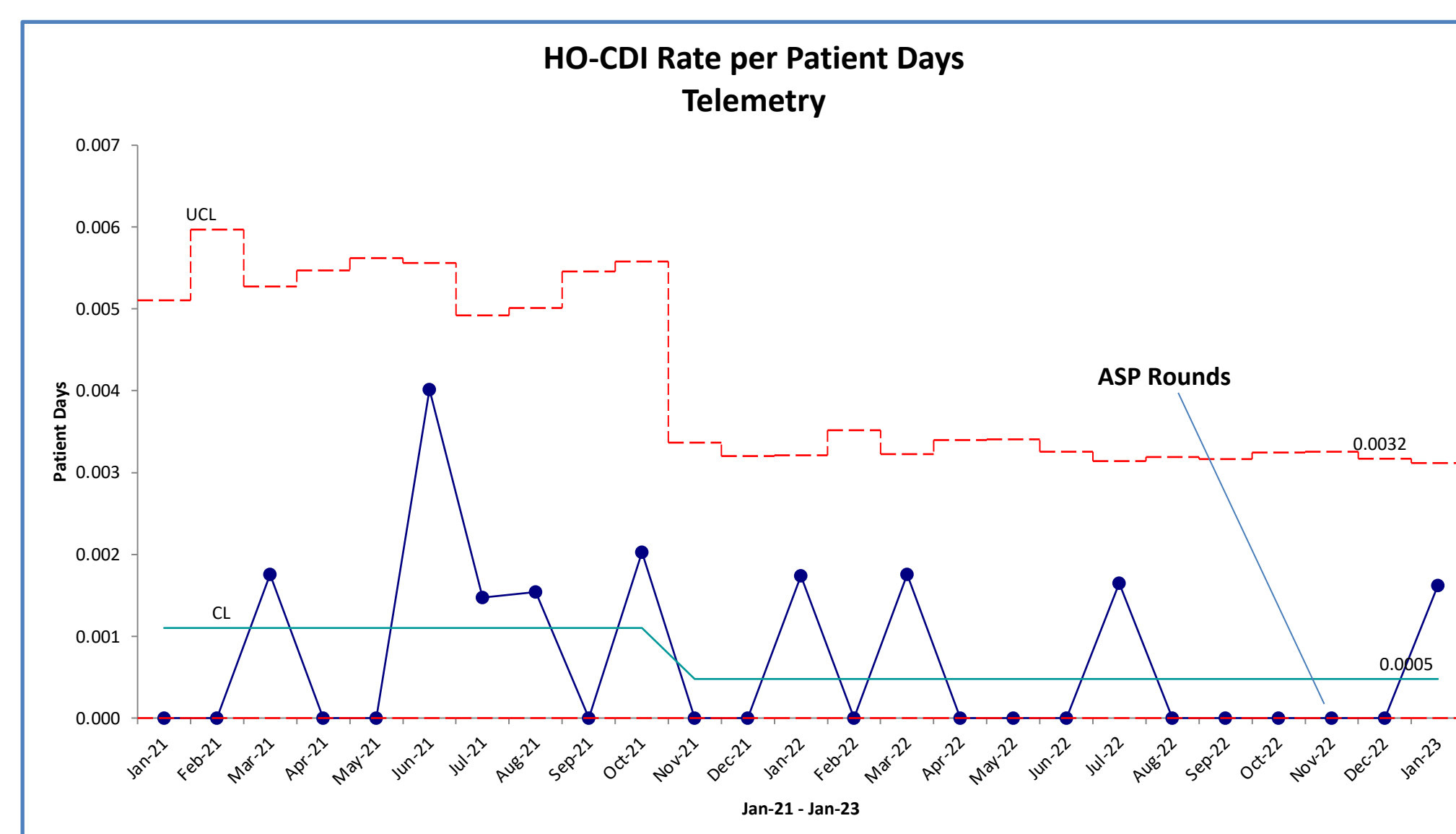
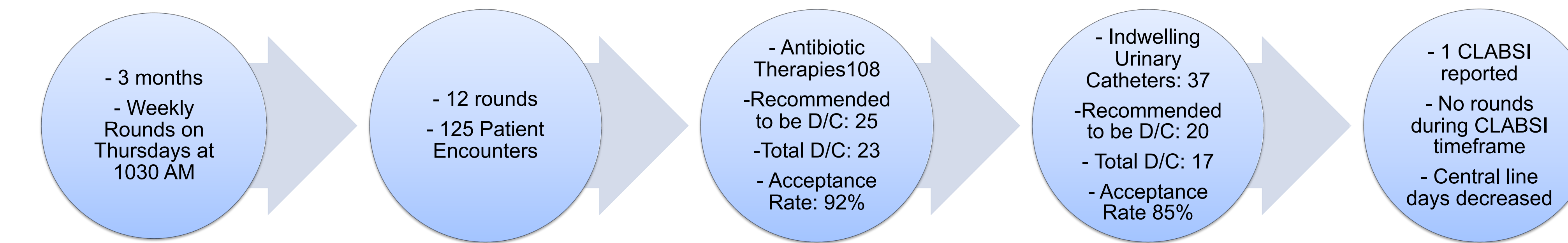
- The purpose of this project was to **develop, implement, and evaluate** a nurse-led interdisciplinary ASP within a trauma, step-down telemetry unit.
- Specific Aims:** Increase bedside nurse knowledge of ASP, Increase unnecessary invasive catheter removal, Decrease HO-CDI rates, CLABSI and CAUTI

ASP Rounds Interdisciplinary Team

Patient Rounds Criteria

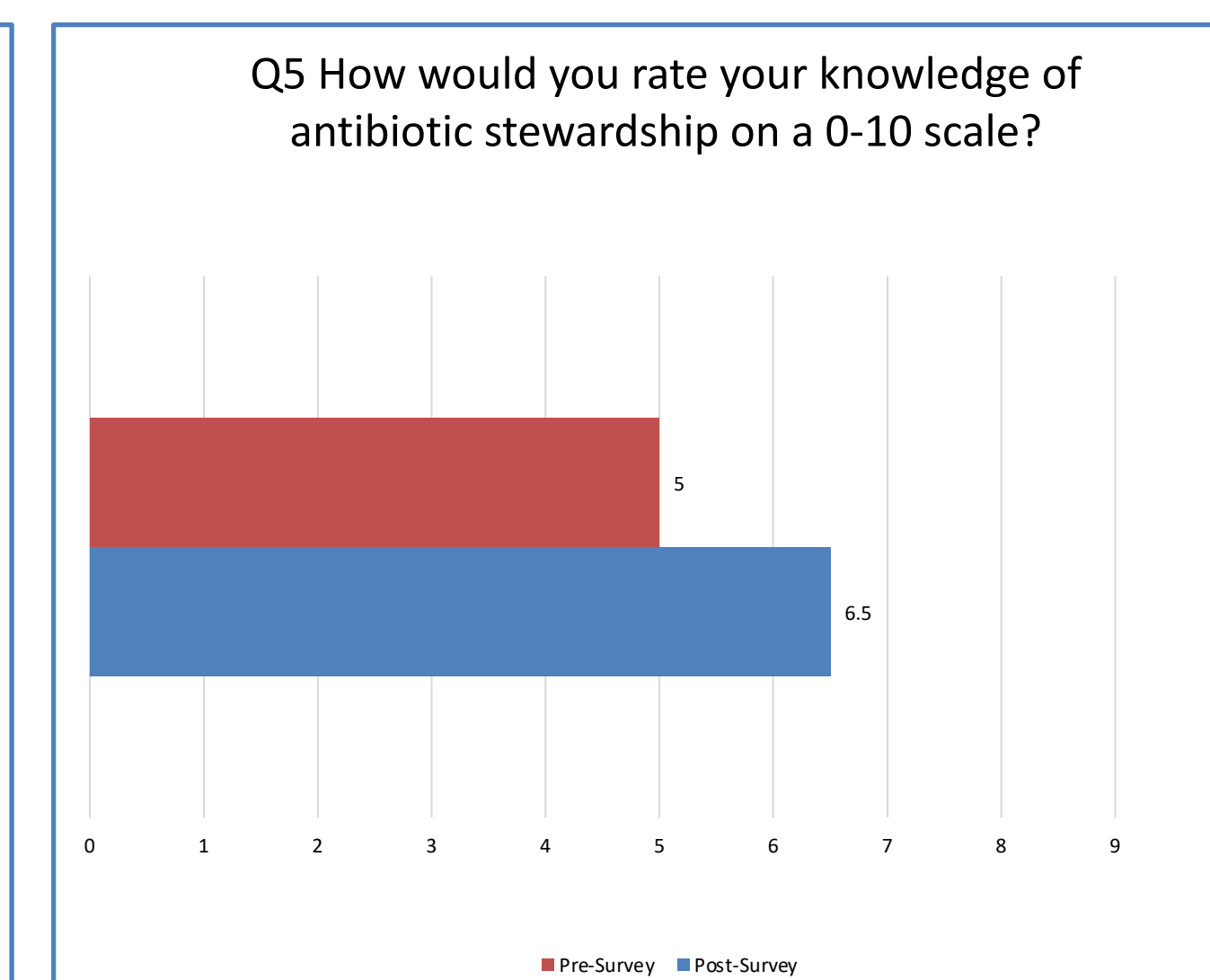
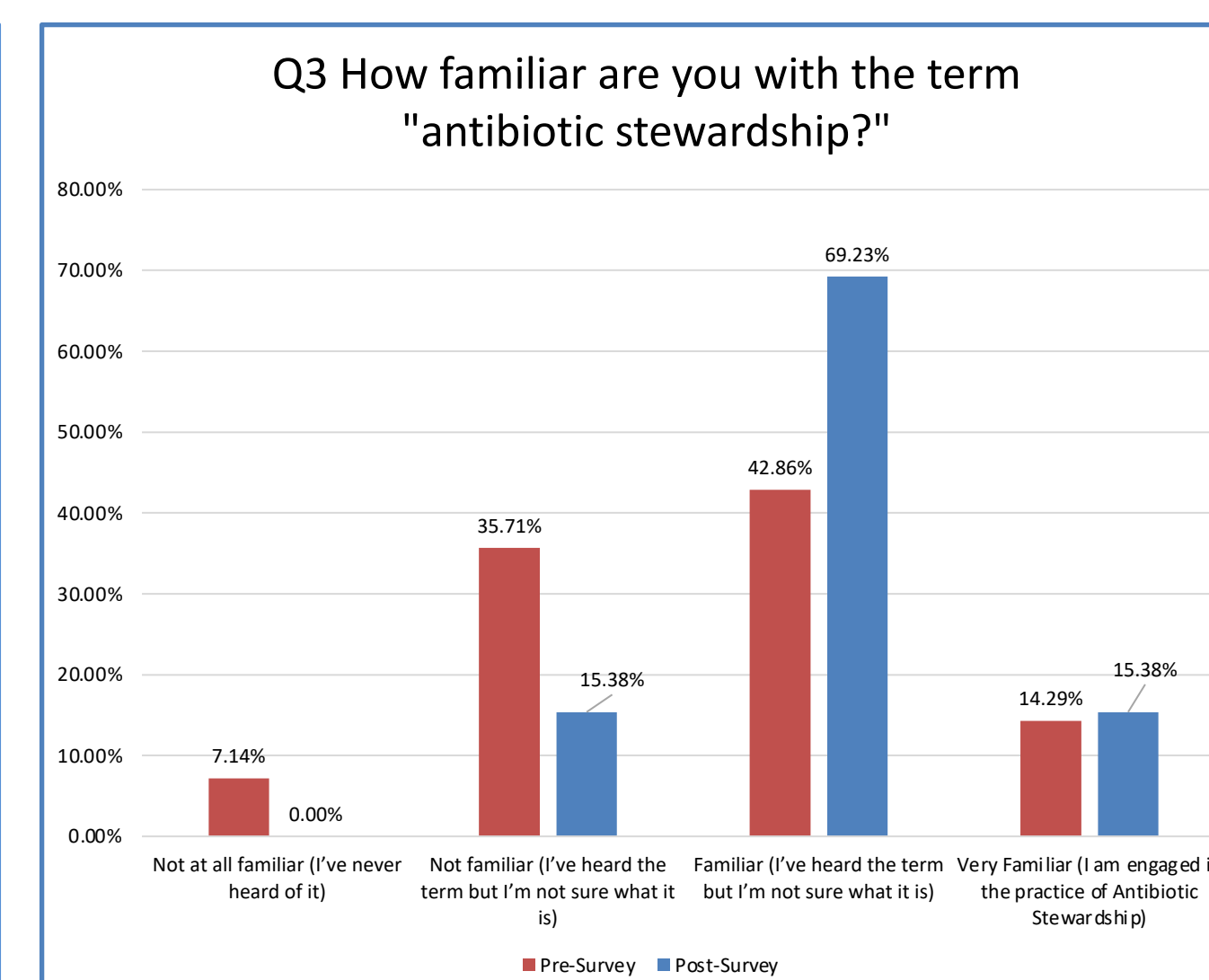


Results



Nurse Knowledge and Attitudes Survey

	Pre-Survey (N = 14)	Post-Survey (N = 13*)
Number of Years as a Registered Nurse	Average = 6	Average = 6
Age	Average = 35 years	Average = 37 years
Gender	Female = 12 Male = 2 Other = 0	Female = 11 Male = 2 Other = 0
Ethnicity	White = 4 (28.57%) Asian = 8 (57.14%) Hispanic = 2 (14.29%)	White = 6 (46.15%) Asian = 6 (46.15%) Hispanic = 1 (7.69%)
Degree	Associates = 3 (21.43%) Bachelors = 9 (64.29%) Masters or higher = 2 (14.29%)	Associates = 4 (30.77%) Bachelors = 9 (69.23%)



Framework and Methods

- Framework:** The Iowa Model of Evidence-Based Practice
- Design:** Descriptive data, retrospective, observational. Pre- and post- interventional electronic survey
- Setting:** 24-bed Step-down Trauma Telemetry Unit in Acute Care Hospital
- Participants:** Patient encounters based on rounds criteria. Convenience sample for pre- and post- survey

Discussion

Key Findings

- ASP Rounds can increase nurse knowledge of stewardship processes
- Nurses want to learn more about ASP
- ASP can lead to increase discontinuation of unnecessary invasive catheters

Nursing Implications

- Nurses perform stewardship practices every day
- Help to achieve TJC program standards

Strengths

- Leadership Support
- Engagement of Staff
- Infrastructure & Integration into EMR

Limitations

- Survey – limited sample size
- Competing Priorities
- Learning modules not mandatory

Recommendations

Sustainability

- Leadership Support
- Continued Education
- Constant feedback for improvement

Future Research

- Continue to collect retrospective clinical data for special cause variation
- Larger sample size
- Expand to other units hospital wide

References

Email mbforte89@csu.fullerton.edu for references

