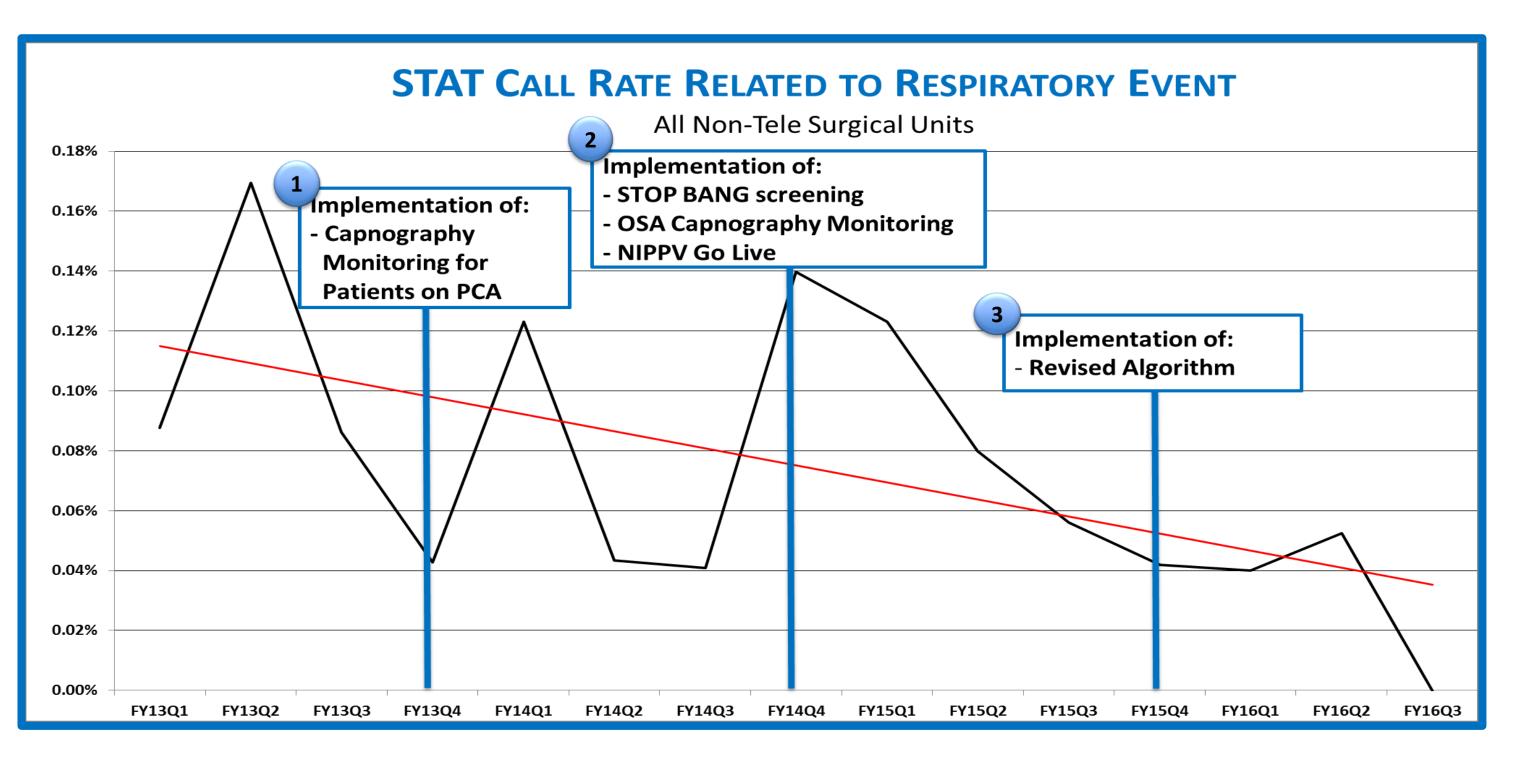


A multidisciplinary team was formed to develop an action plan.

- **1** Patients on patient controlled analgesia (PCA) were placed on capnography and/or oximetry as the first step in addressing the post operative respiratory complications.
- 2 Surgical patients were evaluated preoperatively using the STOP BANG OSA screening tool followed by an algorithm for monitoring and treatment.
 - > Patients with a history of, or those found to be at risk for, OSA were placed on capnography monitoring in the Post Anesthesia Care Unit (PACU). Admitted patients continued to be monitored with capnography until discharge.
 - Patients with recurrent respiratory events consistent with OSA were placed on noninvasive positive pressure ventilation (NIPPV).
 - Patients received OSA education upon discharge and instructions to follow up with the primary care physician, as appropriate.
- 3 After implementation the team improved and revised the algorithm: > Consultation and evaluation by the physician prior to placing the patient on NIPPV
 - Changes created a more optimal level of communication and care coordination

A two-tailed *t*-test with 95% confidence interval was preformed to evaluate emergency response calls related to respiratory events, transfers to ICU from non-telemetry surgical floors, and Postoperative Respiratory Failure (as defined by the Patient Safety Indicator) rates prior to the teams initiatives compared to the rates at present.

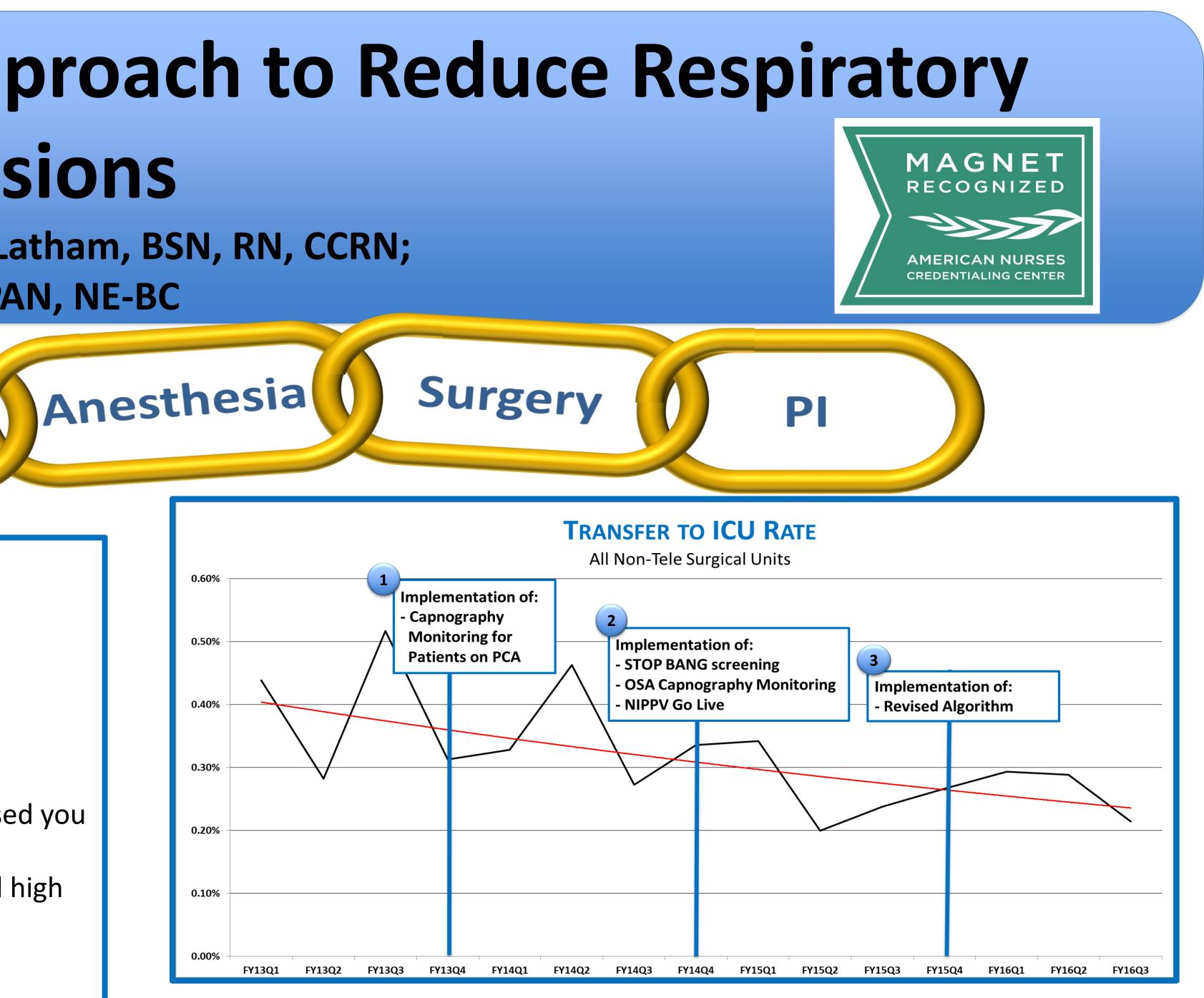


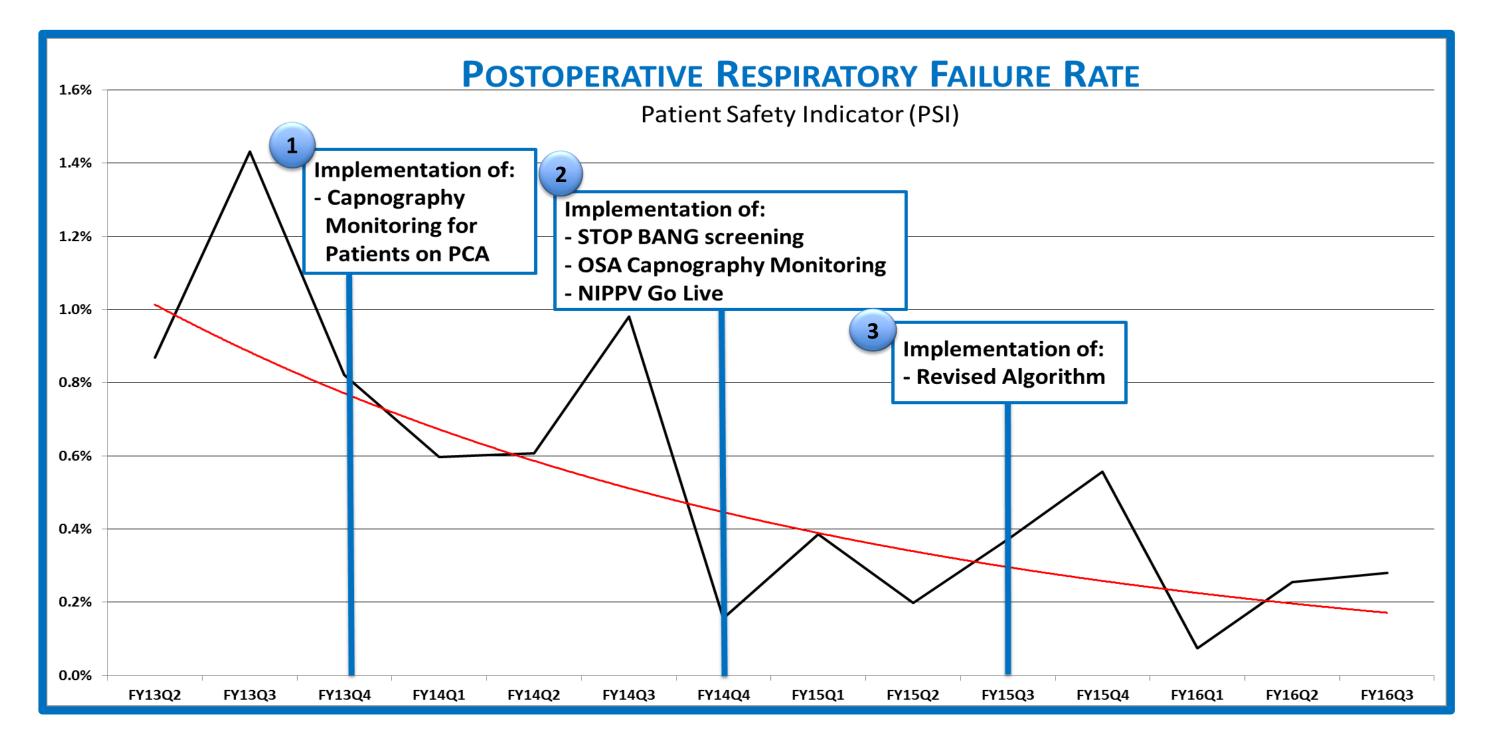
Emergency response call rates decreased from 0.088% to 0.00% (p< 0.01)</p>

and implement interventions.

Pulmonology

> Upon implementation of new OSA protocol an increase in emergency calls was noted. However, the call rate decreased as nurses became more empowered through further education and experience to identify





Implications for Quality

Using a multidisciplinary team approach improved safety and quality of care for patients who had known or at risk for OSA. This project required the organization and cooperation of multiple departments and disciplines. Every link in the chain of teamwork was essential to the success of the project.

Next Steps:

- Ongoing evaluation of the process
- patients with chronic lung issues.

Transfer to ICU Rate decreased from 0.438% to 0.214% (p<0.01)</p>

Postoperative Respiratory Failure rate decreased from 1.6% to 0.28% (p < 0.004)</p>

Development of a similar OSA screening process for non-surgical hospitalized patients with known, or at risk for OSA. Implementation of protocol for Respiratory Therapy to assess and treat