



# Improving Compliance with Institutional Performance on Train of Four Monitoring

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**Train-of-four (TOF) monitoring prevents residual neuromuscular blockade and has been shown to reduce pulmonary complications as well as recovery room length of stay**

Routine application of neuromuscular monitoring remained low which represented a gap between clinical practice and research-driven guidelines. A Quality Improvement (QI) Project was created to evaluate TOF monitoring performance and consensus guideline adherence.



## REDCap Surveys

Pre- and post- intervention surveys were delivered to participants



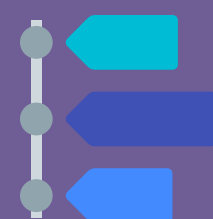
## MPOG Program

Provider-specific performance reports on TOF monitoring were distributed



## QuizTime App

Participants completed daily questions on neuromuscular blockade/reversal and then reviewed related content



## Phased Approach

Initially included 25 learners but then expanded to 400 providers. The QI spanned a 6-month period.



## Identified Barriers to TOF monitoring:

- Issues with equipment/technology
- Differences in provider preferences
- Frequency of handovers

## QI Project Results and Outcomes:

- The combination of RedCap Surveys, MPOG reports, and QuizTime learning **improved** TOF monitoring from **42% to 70%**
- This change reflects a **significant increase in delivery of guidance-concordant patient care**
- Future studies will focus on sustaining adherence and investigating its impact on the rate of postoperative pulmonary complications