



# ASPIRE Collaborative Meeting

July 14, 2023  
Henry Center - East Lansing, Michigan

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# ***How to Implement Quantitative Neuromuscular Monitoring into Your Practice***

Ross Renew, MD - Mayo Clinic, Florida



**Risks of residual neuromuscular blockade include hypoxemia, impaired pulmonary function, upper airway obstruction, postop pneumonia, and respiratory failure.**

## **Assessment Nomenclature:**

- Clinical assessment = 5 –sec head lift, grip strength, etc...
- Subjective evaluation = Peripheral nerve stimulator (PNS)
- Quantitative (objective) monitoring = monitor that stimulates a peripheral nerve, measures the response to stimulation, and converts this signal to objective data

## **2023 ASA Practice Guidelines for Monitoring & Antagonism of NMB**

Refer to [\*\*Dr. Ross Renew's presentation\*\*](#) for practical interpretation and application of these recommendations.

# ***Reimagining our Patients and Their Care: Simple (and not so simple) changes to improve surgical patient care.***

Afton Hassett, Psy. D- Associate Professor University of Michigan

Perioperative Psychological stress = Poor Outcomes

- Resilience strongly predicts chronic pain outcomes.
- Build resilience by engaging in pleasant activities, savoring, and acts of kindness.

## **Practicing Gratitude:**

Emotional exhaustion (EE) in health care providers is common and linked to lower quality of care.

- A single-exposure trial conducted by Adair and colleagues (2020), found that writing a gratitude letter improved well-being.
- 1575 health care workers
- Significant improvements in **emotional exhaustion, happiness, and work-life balance** between the intervention and 1-week follow-up ( $P < .001$ ).

## **Moving Forward:**

- Typical concerns of patients: What's scary?
- Points of contact: Preop & Induction. Asking patients to describe their top travel destination during induction.
- Environmental changes: Calming environments reduce stress -> better outcomes

# ASPIRE Quality Improvement Stories

## PAIN 01 - Holland Hospital

Quality Champion: Chris Wedeven, MD

ACQR: Amy Poindexter, BSN, RN

- Began tracking scores 2019
- Created an order set that was completed in February 2023 to add oral acetaminophen for pre-op sedation
- >25% improvement in performance!

## PONV 05 - Henry Ford - W. Bloomfield

Quality Champion: Bryan Cohen, MD

ACQR: Kim Finch, MSN, RN

- Monitored performance starting in Jan 2022
- Released 3 Epic PONV prophylaxis BPAs in May 2022 (available in Epic BPA library)
- Involved system-wide committee for PONV education
- More than 2-fold improvement system-wide!
- Educational materials:
  - Emails
  - BPA posters
  - Educational 1-2 page flyers regarding risk factors and ways to reduce PONV

# MSHIELD: Carol Gray, MPH and Matthias Kirch, MS



## *Health Equity and Social Determinants of Health.*

- MSHIELD CQI (Michigan Social Health Interventions to Eliminate Disparities) is a “partnering CQI”
- MSHIELD has expertise in working with data involving social determinants of health and health disparities
- One of MSHIELD’s primary goals is to be a partner to all existing CQIs to help each CQI achieve their quality improvement goals in a way that advances health equity

For more information, visit <https://www.michiganshield.org/>