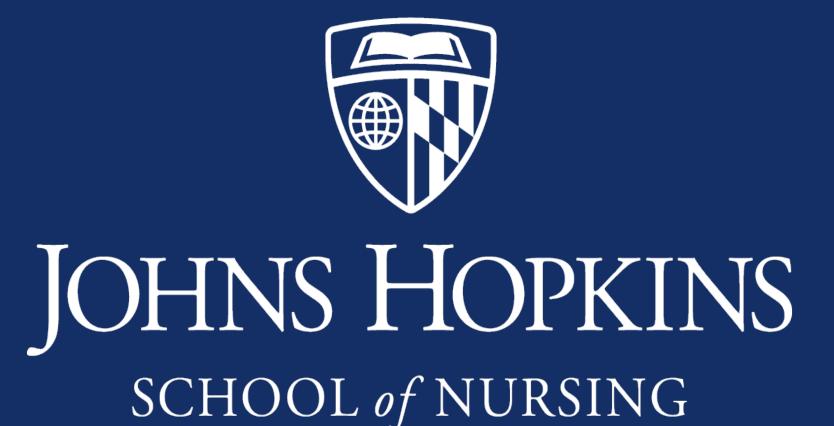
# Effectiveness of a Hand-Off Communication Form on Improving Interdisciplinary

# Collaboration and Standardizing Discharge Education



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# Introduction & Background

- Tracheostomy: an artificial airway for critically ill patients in respiratory failure<sup>2</sup>
- Meticulous home care required to prevent manageable adverse events (accidental dislodgement, infection, and respiratory distress)<sup>1</sup>
- Academic medical center in the Midwest:
  - Lack of communication/care coordination surrounding tracheostomy discharge education
  - Documentation inconsistences
- Evidence-Based Solution<sup>3,4,8</sup>
  - Team-based care
  - Standardized protocols
  - Education
  - Patient/caregiver involvement

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## Purpose & Aims

**Purpose**: Evaluate whether the implementation of a hand-off communication form among health care professionals caring for adult (>18 years) tracheostomy patients on an acute care surgical unit will increase the teams understanding of the patient's discharge process and enhance communication.

Aim 1

Increase the health care professional's understanding of the adult tracheostomy patient's discharge education plan

Aim 2

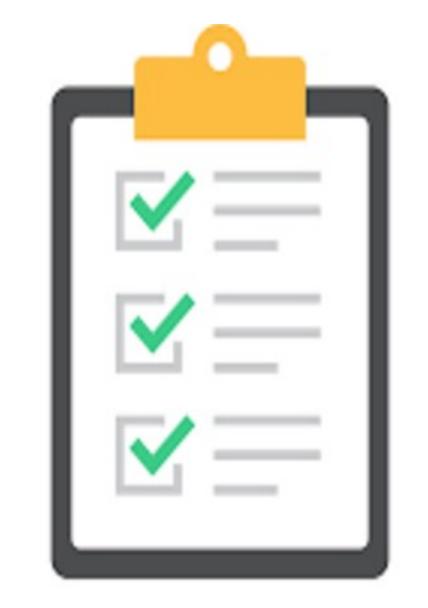
Increase communication regarding discharge education among health care professional's caring for adult tracheostomy patients

Aim 3

To assess health care professional's satisfaction with utilizing the hand-off form

#### Methods

- Design:
  - Pre-Post Quality Improvement Project
- Sample:
  - Healthcare professionals on a surgical unit: Nurses (n=69)
     and Respiratory Care Practitioners (n=135)
  - Adult (> 18 years) tracheostomy patients on a surgical unit
- Setting:
  - 28 bed, adult surgical-telemetry acute care unit
  - Primary Patient Population: Non-Trauma Emergency,
     Otolaryngology, Head/Neck Cancer Reconstruction
- Intervention:
  - Hand-Off Communication Form<sup>3,6</sup>: standardized process that facilitates communication and serves as a method to document education
  - Focuses on: proper hand hygiene, skills competencies, & emergency preparedness
- Procedures:

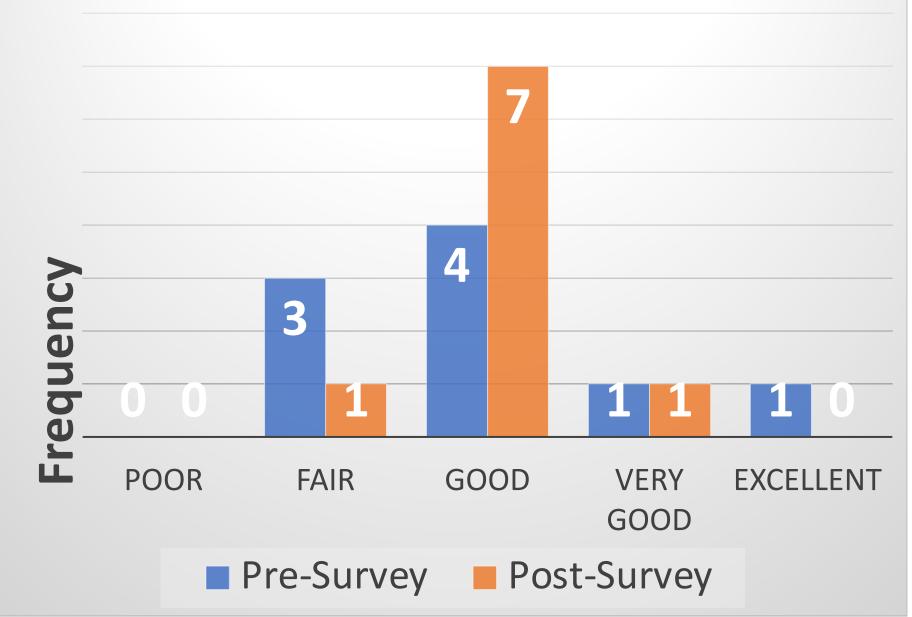


Education Pre-Survey Intervention Post-Survey

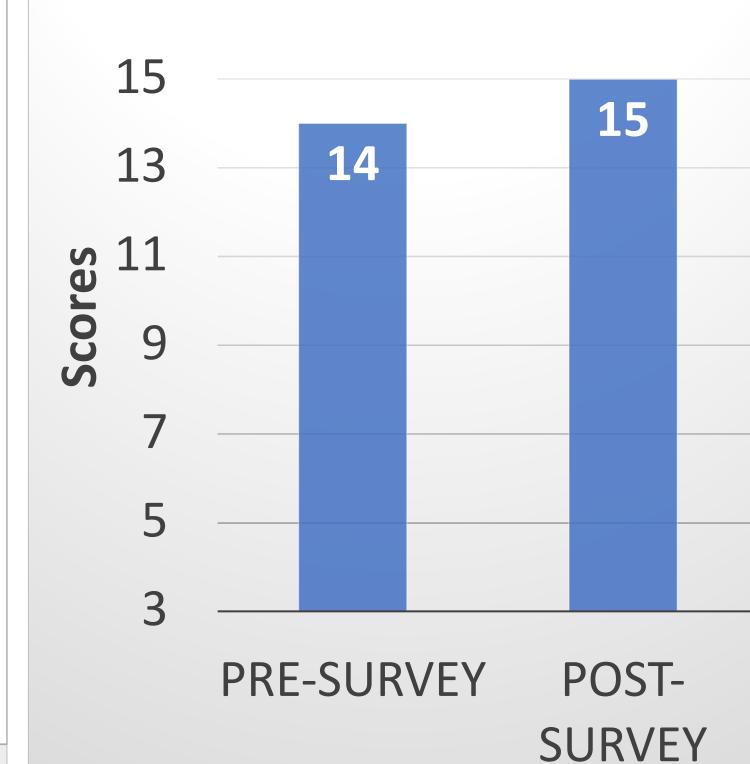
- RedCAP: 5-question pre-survey and a 7-question postsurvey<sup>5</sup>
- 1<sup>st</sup> session: Staff introduced the educational topic
- 2<sup>nd</sup> session: Staff demonstrated skill
- 3<sup>rd</sup> session: Patient/Caregiver returned demonstration
- Weekly Audits

#### Results

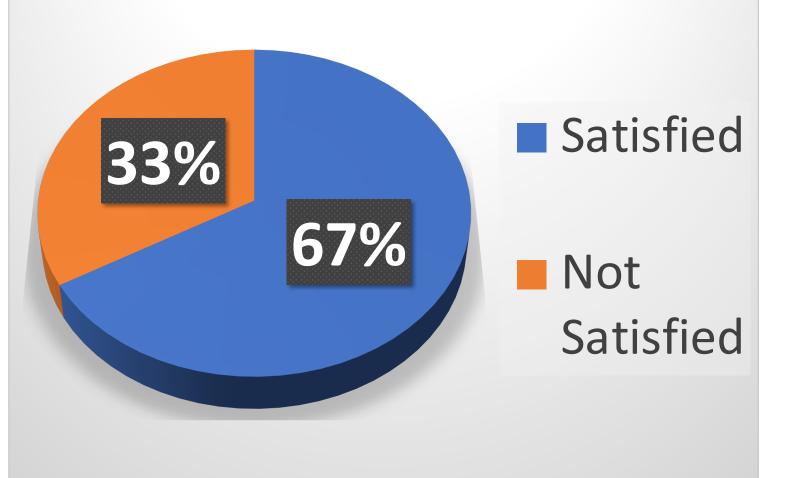
- Following 12-week implementation: Nurses (n=9) demonstrated a small improvement (median score of 14 vs.15) in the understanding of the discharge plan
- Results from a Wilcoxon Signed Rank Test (Z= -.105, p= 0.916) did not elicit a statistically significant change



 66.67% (n=6) of the nurses reported satisfaction with the tool and were interested in continuing to use the form



 Majority of the nurses reported good (n=7) and very good (n=1) communication among team members



#### Conclusion

- A standardized discharge education protocol may:
- Possibly serve as a prerequisite to successfully prepare tracheostomy patients for a safe transition to home
- Positively impact the healthcare provider's understanding of the discharge plan and encourage team members' communication
- Next Steps: Transform tool into EMR



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