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10-16-2023

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Recommended Citation

Craig, Savannah Sierra Nicole; Burrell, Kaitlin D.; and Patrick, Jennifer, "Implementation of a Single-Patient-Use Airway Taping Product in the Operating Room" (2023). *Graduate Publications and Other Selected Works - Doctor of Nursing Practice (DNP)*.

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Implementation of a Single-Patient-Use Airway Taping Product in the Operating Room

Kaitlin Burrell BSN, RN; Savannah Craig BSN, RN; Jennifer Patrick DNP, CRNA

BACKGROUND

- Anesthesia providers use adhesive tape to secure advanced airway devices.
- Rolls of adhesive tape serve as reservoirs for bacteria and pathogens including MRSA, VRE, and Staphylococcus species.^{5,8}
- Rolls of tape do not have instructions on how they are to be reused, cannot be disinfected, and should not be repurposed.^{3,4}
- The re-use of rolls of tape poses a risk to patient safety. Evidence reports tape's risk of cross-contamination, but there is a scarcity of formal guidance for its use and how it is to be stored.^{2,5}

LOCAL PROBLEM

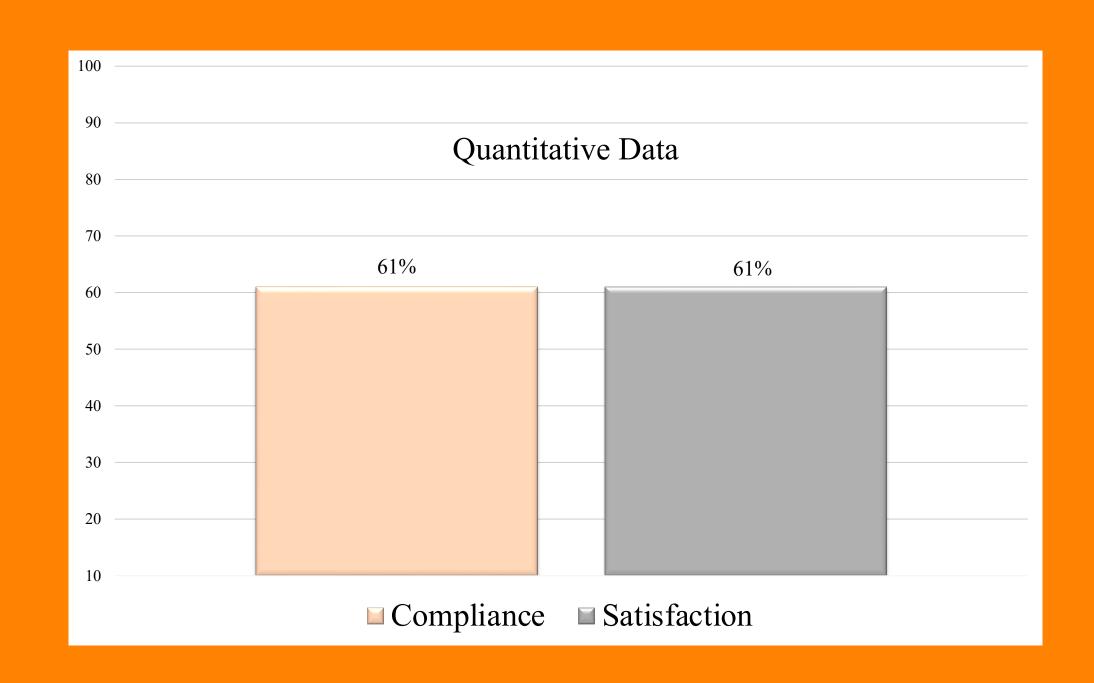
- The project site was the main operating rooms of an academic medical center located in the Southeast region of the United States.
- The facility does not have taping practice guidelines in place.
- The purpose of this evidence-based practice quality improvement project was to implement a single-patientuse taping product for anesthesia providers to utilize when securing advanced airways.
- The AIM was: After six weeks of implementation of a single-patient-use taping product in the main operating rooms of the facility, 60% of providers will report satisfaction and compliance with the new taping product.

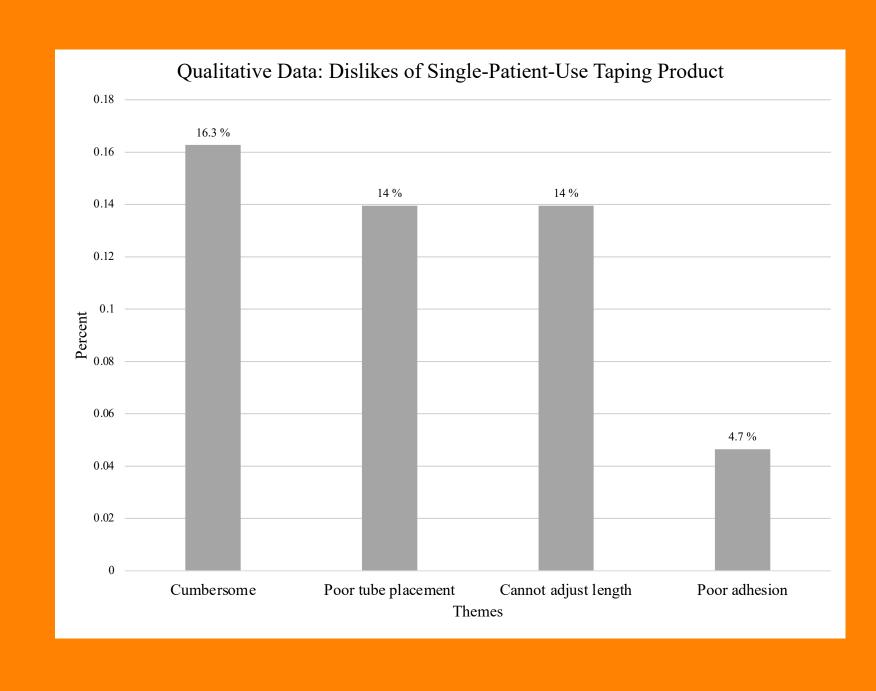
METHODS

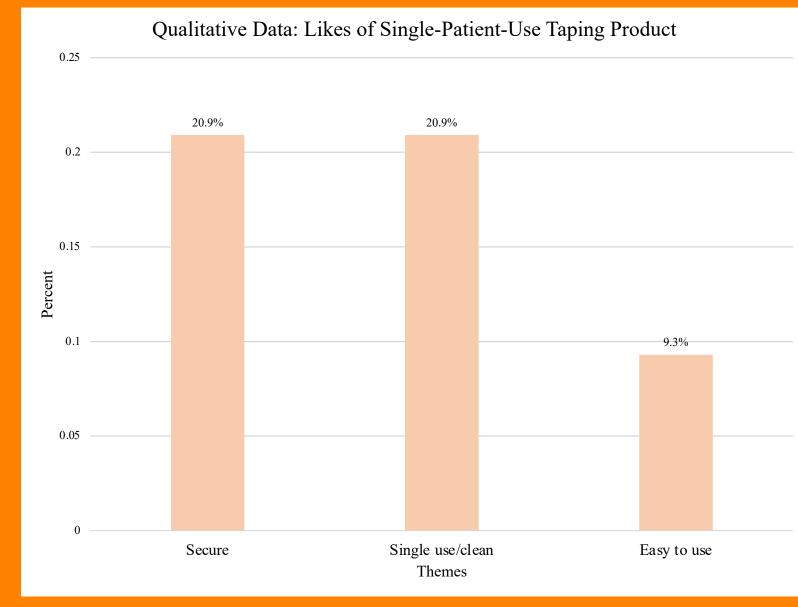
- The Evidence-Based Practice Improvement model was used to outline this project.⁶
- Literature search and critical appraisal demonstrated good evidence supporting the use of single-patient-use items.^{1,8}
- The measured outcomes were anesthesia provider satisfaction and compliance with the single-patient-use taping product, which was evaluated by a questionnaire.

The project AIM for satisfaction and compliance were met; and

incorporating a single-patient-use product allows anesthesia providers to increase patient safety.









ACKNOWLEDGEMENTS/FUNDING DISCLOSURE:

Anesthesiology (AANA) Foundation awarded grant.

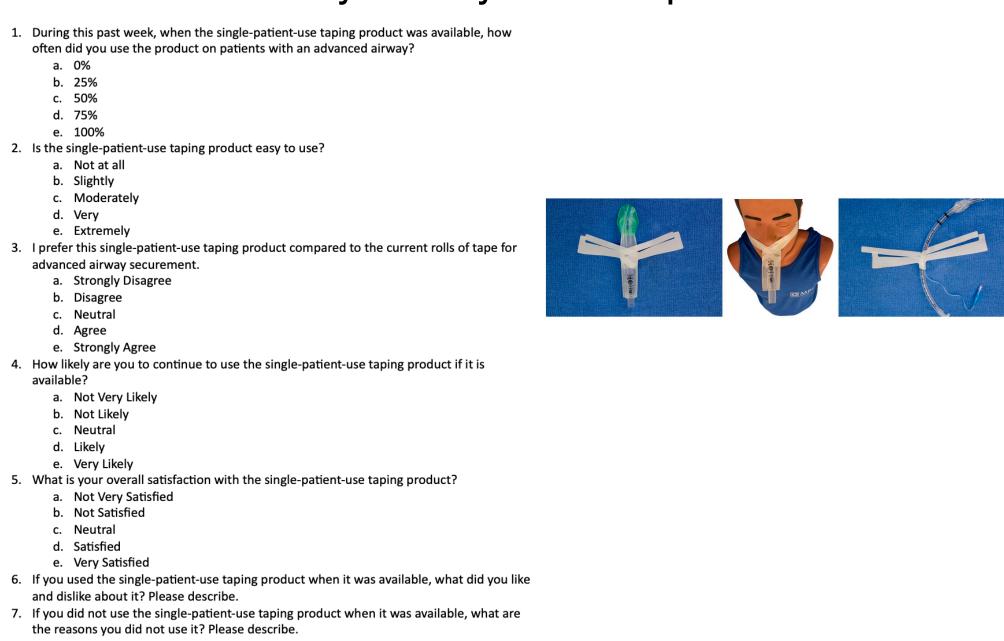
Financial support was provided by an American Association of Nurse





INTERVENTIONS

- A single-patient-use taping product was distributed to anesthesia providers to secure advanced airway devices perioperatively.
- Providers then completed a questionnaire designed to assess their satisfaction and compliance with the product, which were the measured outcomes.
- 8 Plan-Do-Study-Act Cycles completed



RESULTS

- The project AIM for satisfaction & compliance were met.
- 61% of anesthesia providers agreed that they would continue using the product if available.
- 61% of providers were satisfied with the product.
- Qualitative Data:
- "If you used the single-patient-use taping product when it was available, what did you like and dislike about it? Please describe."
- Coded by positive and negative themes.

CONCLUSIONS

- Anesthesia providers remained compliant and satisfied with the single-patient-use product.
- Implications for practice
 - Aligns with accrediting agencies' goals and priorities.^{3,7}
 - Anesthesia providers have a direct impact on patient safety.
 - Provider satisfaction & compliance with the product guides administration's decision regarding continued investment in the product.
- To sustain product use, the facility would need to continue to purchase the product at non-educational pricing.