



Duoderm Trials



Project Coordinators: Bryce Ginsburg BSN, RN, Robbie Hill, BSN, RN, Ryleigh Louis, BSN, RN Sara Potts, BSN, RN, Stephanie Stone BSN, RN
Director: Teri Wells, BSN, RN

Northeast Georgia Medical Center

Units: Cardiovascular Intensive Care Unit

PICOT Question

Does the application of a duoderm dressing for patients receiving airway assistance devices in a Cardiovascular Intensive Care Unit (CVICU) reduce the occurrence of device related pressure injuries compared to patients not using a duoderm dressing over a two-month period?

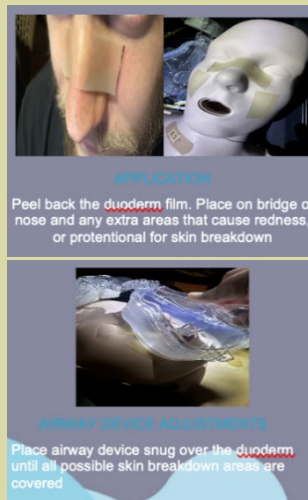
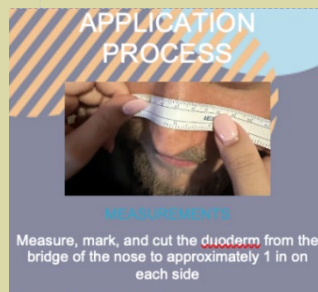
Evidence Summary

- The prevalence of facial pressure injuries related to adult non-invasive ventilation equipment was 25% (Cui, et al. 2022)
- Higher for patients with diabetes, somebodies, fever, longer vent time, facial skin edema, and low GCS scores.
- This showed a 75% reduction in actual injuries with a zero escalation to stage 2 or greater injuries. (Arundel, et al. 2021)
 - For patients using airway assistance devices

Description of Change

We worked with CVICU tissue nurses to investigate any breakdown of tissue on all patients using airway assistance devices, despite present skin breakdown. If noted, we placed a duoderm dressing to further investigate if breakdown improves.

- Coordinate with RT, charge nurse and tissue nurses. Completed on Tuesdays by CVICU nurses.
- Read data from the past month, pertaining to airway assistance devices injuries and compare with new pressure injury bundle over the span of 2 months
- Have tissue nurses fill out a table we created before our intervention, and after every Tuesday for 2 months
- Pamphlet created to better demonstrate placement of duoderm on patients with airway assistant devices



Results

Based on our project and data collection the application of the Duoderm was effective in reducing pressure injuries by 75% for patients with airway assistant devices.

Recommendation

- We recommend applying a duoderm dressing 2 hours after airway initiation and patient stabilization.
- Provide staff duoderm application sites with certain devices
- Stock Duoderm dressing in blue bins.

References

- Wei, Yuting, et al. "The Prevalence and Risk Factors of Facial Pressure Injuries Related to ..." *Wiley Online Library*, 28 July 2022, <https://onlinelibrary.wiley.com/doi/full/10.1111/iwj.13903>.
- Arundel, Linda. "Reducing the Incidence of Medical Device-Related Pressure..." : *Journal of Wound Ostomy & Continence Nursing*." *LWW*, Mar. 2021, https://journals.lww.com/jwoconline/Abstract/2021/03000/Reducing_the_Incidence_of_Medical_Device_Related.3.aspx?context=FeaturedArticles&collectionId=2.