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imagine
THE POSSIBILITIES
35th ANNUAL CONFERENCE
April 30 – May 2, 2025
Disneyland Hotel
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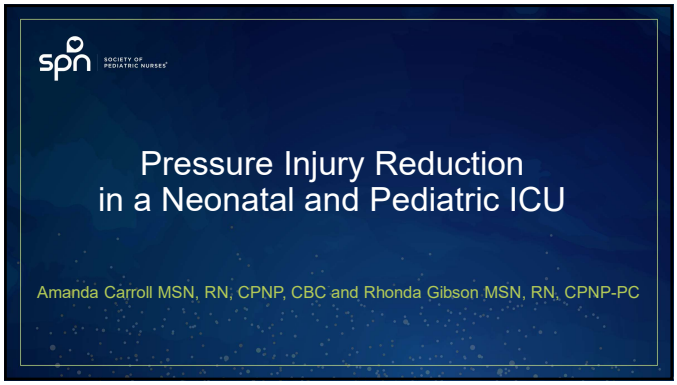
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SOCIETY OF PEDIATRIC NURSES
Pressure Injury Reduction
in a Neonatal and Pediatric ICU
Amanda Carroll MSN, RN, CPNP, CBC and Rhonda Gibson MSN, RN, CPNP-PC

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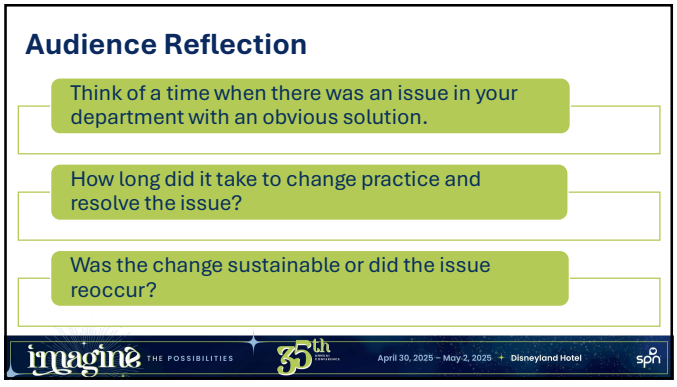
Audience Reflection
Think of a time when there was an issue in your department with an obvious solution.
How long did it take to change practice and resolve the issue?
Was the change sustainable or did the issue reoccur?
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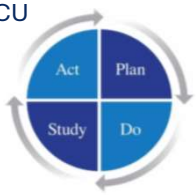
Background

In 2021, our free-standing Children's Hospital had an increase in tracheostomy related pressure injuries (TRPI) in the NICU & PICU

- Literature review: gaps in practice
- Aim: reduce TRPI by 20%
- Methodology: Plan-do-study-act (PDSA)



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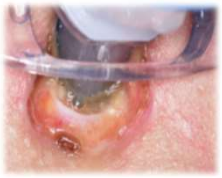
Pediatric Pressure Injuries

Pediatric patients are 70% more likely to develop pressure injuries related to medical devices.

- Without preventative measures, post-operative TRPI risk increases 17%



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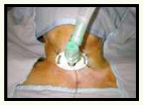
Practice Gaps

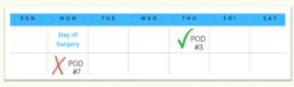
Securement: flange sutures



Securement: twill ties

Lack of barrier dressing

Delayed first tie change



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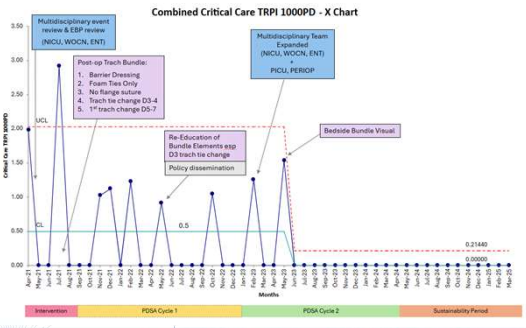
PDSA Cycles



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PDSA Cycles

	PDSA Cycle 1	PDSA Cycle 2
COLLABORATION	NICU RNs NICU Providers WOCN ENT (Chief only) PICU RNs	NICU RNs NICU Providers WOCN ENT (100% of team) PICU RNs PICU Providers Periop Team
COMMUNICATION	**Bundle Dissemination** -Email NICU and PICU RNs -In person education for NICU and PICU RNs	**Bundle Re-Education** -Email NICU and PICU RNs & Providers -In person education for NICU and PICU RNs -Education to OR RNs -Education to all ENT -Bundle visual aides created

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Barriers

- Limited collaboration and engagement
  - Critical Care and ENT providers
  - Periop team
- Ineffective communication
  - Interdisciplinary communication
  - Dissemination of policy and bundle
- Surgical technique variances
- Availability of supplies

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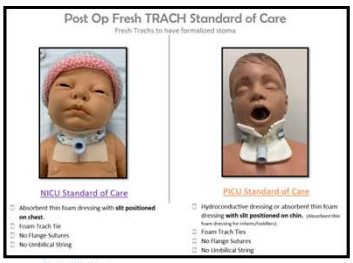
Visual Aide for TRPI Bundle



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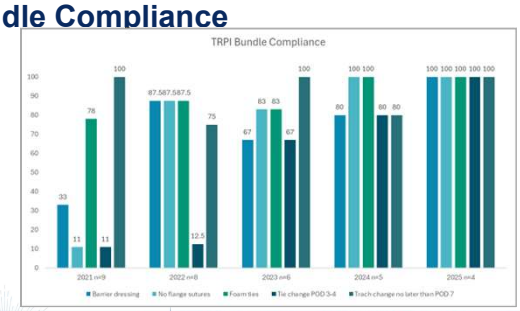
Bundle Compliance



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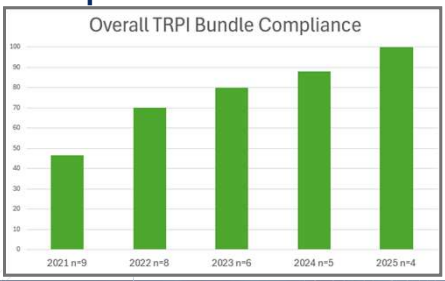
Bundle Compliance



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Outcomes

- 34 patients underwent tracheotomy procedures between April 2021 and March 2025.
- TRPI decreased from 0.5 to 0 per 1000PDs
- TRPI of 0 per 1000PDs has been sustained for 22 months.
- Compliance improved across all bundle elements.
- No accidental decannulations with day 3-4 tie change.

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Conclusions

- Standardization of post-op trach care and interdisciplinary collaboration can reduce TRPI and improve patient outcomes.
- Bundle development and implementation provides a foundation for nurses to advocate and provide best practice for patients.
- Stakeholder engagement is key for sustainability.

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References

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