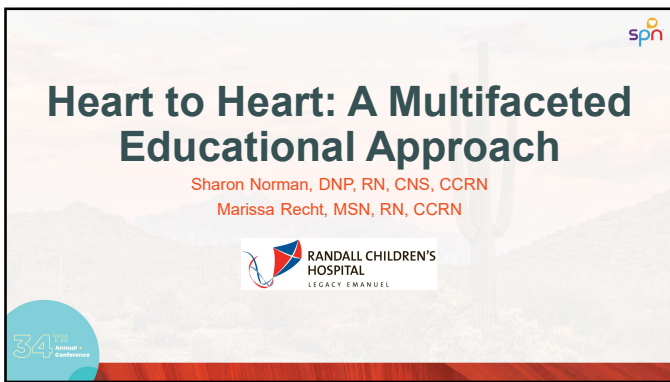




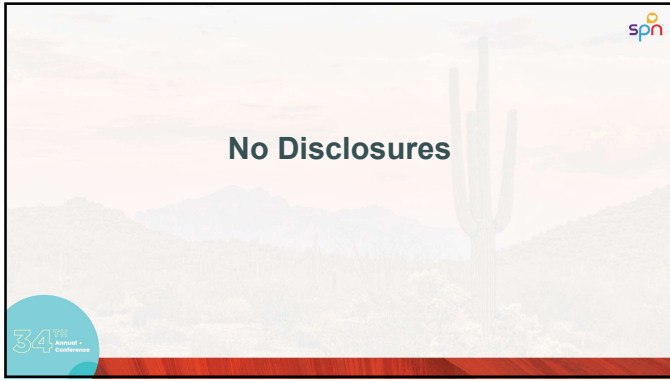
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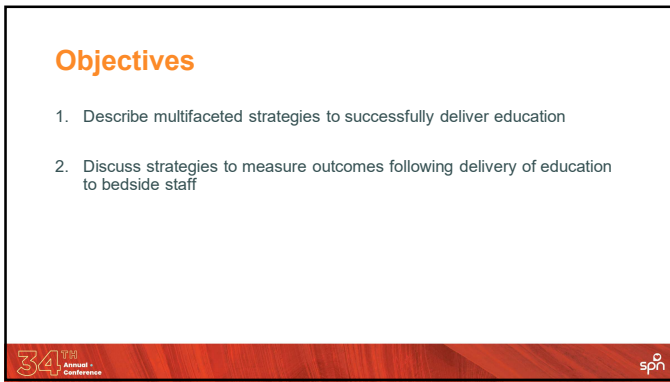
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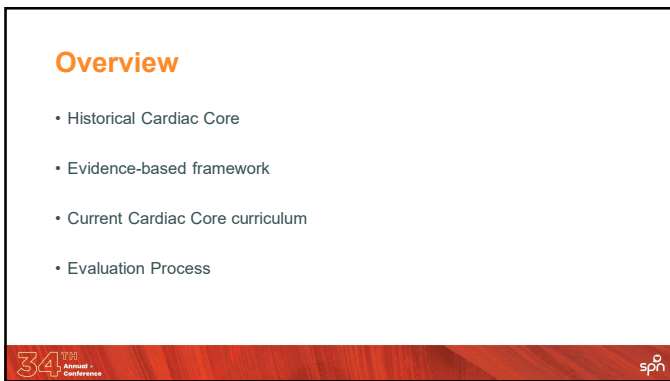
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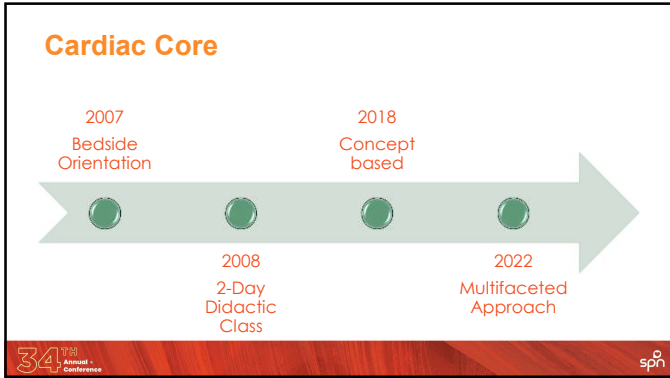
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Historic Cardiac Core Content

Didactic	Cardiac Core Day 1	Concept Based
0800 – 0845	Cardiovascular circulation	<ul style="list-style-type: none"> • Fetal physiology • Hemodynamics • Pharmacology • Rhythms/Pacing • Case Studies
0845 – 0900	Break	
0900 – 1015	Hemodynamics	
1015 – 1130	ASD, VSD, AV Canal, TOF	
1130 – 1230	Lunch	
1230 – 1315	TGA, TAPVR	
1315 – 1430	TA, DORV, TAT	
1430 – 1445	Break	
1445 – 1700	HLHS	

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Current Cardiac Core Curriculum
 Pre-work -> Didactic -> Simulation -> Precepted Orientation -> Capstone Case Study Presentation

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Cardiac Core Pre-work

- *Cardiac Knowledge Inventory* – completed prior to further educational offerings
 - Example: "Define cardiac output and discuss how to assess the adequacy of cardiac output in a post-op cardiac surgical patient."
 - Example: "What cardiac defects have increased pulmonary blood flow? What signs/symptoms would you expect and why? If you took a CXR of a child with this type of defect, what might you see and why?"
- Electronic self-learning modules
 - Introduction to caring for pediatric cardiac surgical patients
 - Rhythm interpretation
 - Temporary pacemakers

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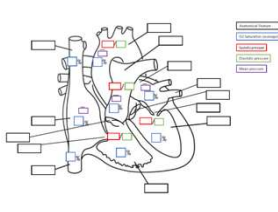
Cardiac Core Pre-work


- Cardiac resource exploration
 - Common defects
 - Common surgical repairs
 - Consider the following:
 - Are arrhythmias common? If so, which ones?
 - What do you expect to happen regarding fluid shifts?
 - Low cardiac output signs and symptoms?
- Pressures and sats worksheet

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Didactic – with Cardiac Experts


- Complementary to pre-work, minimal concept repetition
- Presentations by cardiologists
 - Hemodynamics
 - Rhythm interpretation
 - Tetralogy of Fallot Case Study
- Presentation by cardiothoracic surgeon
 - HLHS case study
- Presentation by pediatric pharmacist
 - Cardiac infusions




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Simulation




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Precepted Orientation

- Three 12-hour orientation experiences:
 1. Post-op recovery
 2. Simple defect
 3. Complex defect
- Post-op cardiac competencies

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Case Study Presentations

- SBARQ format
 - **Situation:** Briefly describe the cardiac defect and surgical repair, including indications
 - **Background:** Past medical and surgical history, including previous admissions
 - **Assessment:**
 - Pathophysiology of patient's diagnosis, especially flow dynamics
 - Anticipated post-op complications
 - Relevant significant findings and variants
 - **Recommendation:** Nursing care provided to patient
 - **Questions:** Provide three relevant clinical questions to stimulate group discussion

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Evaluation

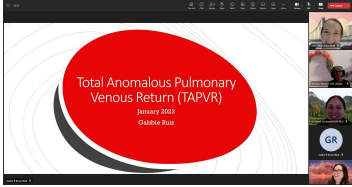
- Case presentation
- Post-class knowledge inventory
- Clinical judgement

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Case Study Presentations

- Arranged following orientation for all current class participants
- Four-hour online meeting, teaching peers and educators



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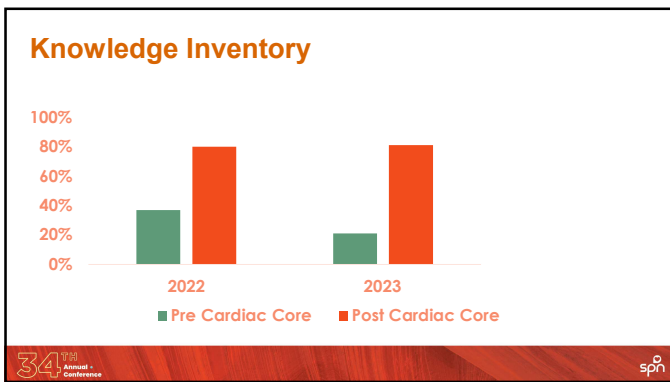
Case Presentations



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Clinical Judgement



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Implications for Practice



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Selected References

- Beckett, H. (2022). Effect of e-learning on nurses' continuing professional development. *Nursing Management*, 29(4).
- Everett, A. D. & Liu D. S. (2021). *Illustrated Field Guide to Congenital Heart Disease and Repair*. (4th ed.). Scientific Software Solutions.
- Fields, L., Trostler, B., Moroney, T., & Dean, B. A. (2017). Active learning pedagogy transformation: A whole-of-school approach to person-centered teaching and nursing graduates. *Nurse Education in Practice*, 53, 103051.
- Lewis, K. A., Ricki, T. N., Rowin, A., Nelson, C., Gabbidon, L., & McEneaney, C. (2019). Davis simulation training for acute care nurses improve patient safety outcomes: a systematic review to inform evidence-based practice. *Workshops on Evidence-Based Nursing*, 16(5), 380-396.
- Rowles, G., Gagnon, M. P., Cobb, J., Payne-Gagnon, J., Hudson, E., Dubois, C. A., & Bouak-Picasso, J. (2019). Effects of e-learning on continuing education content on nursing care: systematic review of medical literature research. *Journal of systematic qualitative, quantitative, and mixed-studies reviews*. *Journal of Systematic Reviews*, 8(1), 1-10.
- Wilkes, S., Jowsey, T., & Chen, Y. (2021). How do nurses promote critical thinking in acute care? A scoping literature review. *Nurse Education in Practice*, 53, 103074.

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