

RECONSTRUCTING RHYTHM INTERPRETATION EDUCATION TO

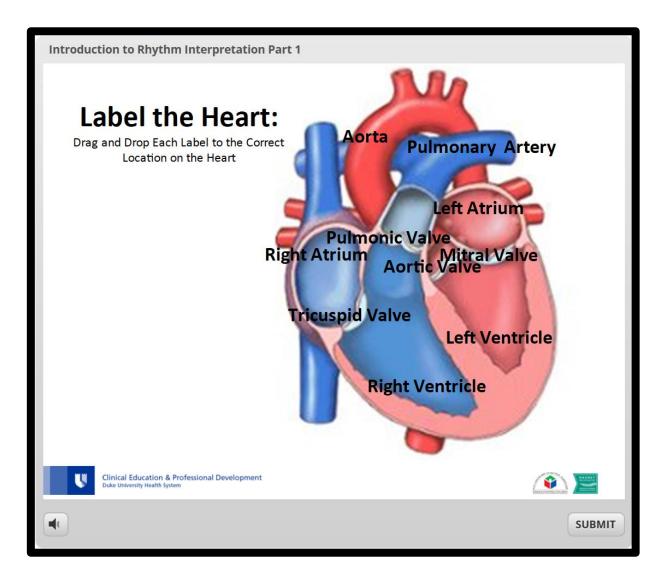
INCREASE EFFICIENCY AND COMPETENCY Stacey O'Brien, MSN, RN-BC; Duke University Health System, Mary Anne Bosher, MSN, RN-BC; Duke University Health System, John Howe, BSN, RN; Duke University Health System, Anne Martin, BSN, RN; Duke Raleigh Hospital, Tracey Stell, BSN, RN; Duke Regional Hospital and Melissa Toper, MSN, RN, CCRN; Duke University Health System

Background:

Rhythm interpretation is a common expectation of nurses who care for patients requiring cardiac monitoring. Basic rhythm interpretation testing is often required to complete orientation. While most nurses are introduced to basic rhythm identification during undergraduate study, adequate education to interpret rhythms is not often provided. Most health care organizations offer some type of rhythm interpretation training.

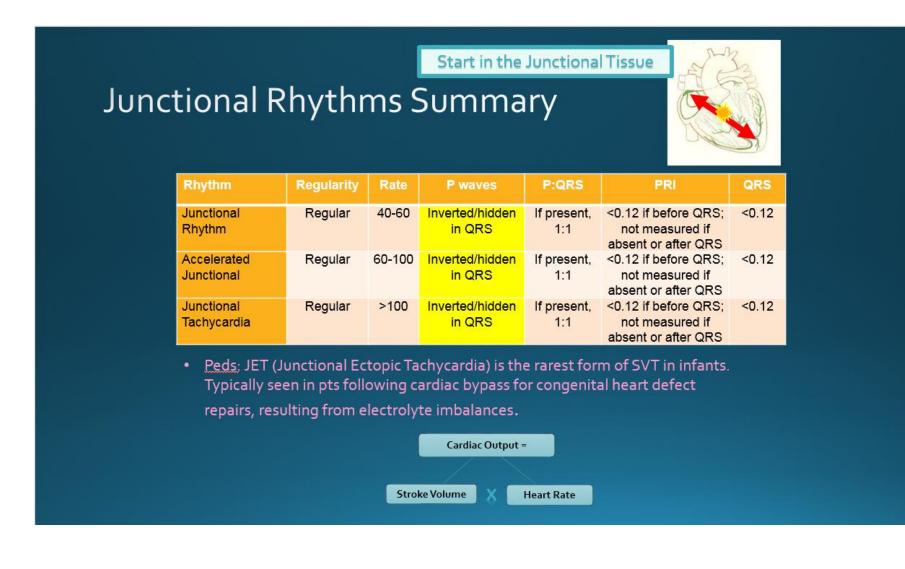
Objectives:

- 1. Assess current content and materials utilized in an established two-day rhythm interpretation course.
- 2. Analyze rhythm interpretation testing results to identify gaps in current class content.
- 3. Identify alternative learning modalities to decrease class time while maintaining or increasing the current testing pass rate for learners.



Methods:

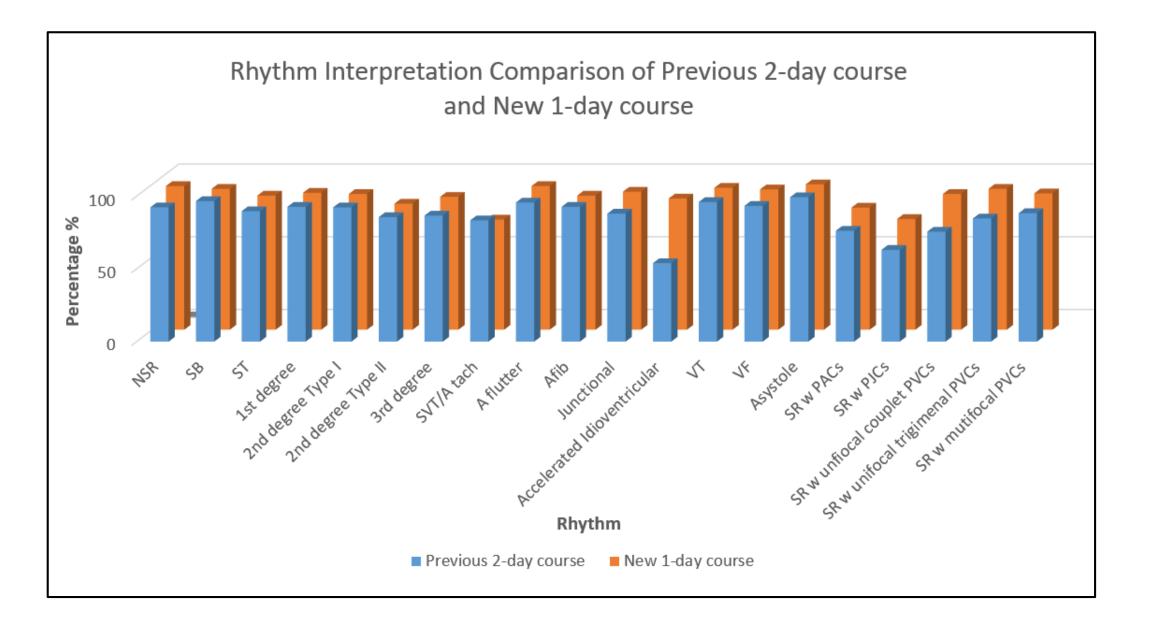
A team of Clinical Nurse Educators (CNE) identified content suitable for interactive webbased learning to be done prior to a face-to-face class resulting in the development of a two-part module. The face-to-face content was reordered to reinforce learning and slides comparing frequently confused rhythms were added. In addition, pediatric specific differences were included in the presentation of each rhythm and a pediatric workbook emphasizing pediatric rhythm considerations was developed. The two-part module and one day face-to-face class was implemented as a pilot.



Idioventricular v. Junctional

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Rhythm	Regularity	Rate	P waves	P:R	PRI	QRS
Idioventricular Rhythm	Often regular	20-40	None	UTA	None	>0.12
Junctional Rhythm	Regular	40-60	Inverted/ hidden in QRS	lf present, 1:1	<0.12 if before QRS; not measured if absent or after QRS	<0.12













Results/Outcomes/Improvements:

lass	% Pass	% Fail
revious 2-day	73%	27%
ew 1-day (n160)	 	↓ 18%

Significance/Implications/Relevance:

- 11% \square remediation time for participants & CNEs
- Approximately $25\% \sqrt{1}$ in class time
- Two-fold return on investment for Nurse Managers:
 - 1 bedside clinical time during orientation
 - 25% () in indirect hour per participant for this class
- We would like to acknowledge Heather Mabry, Nursing Informatics System Specialist, for her help in developing the modules.