

Specialty Rotation: Pediatric Cardiac Anesthesia

Brian Gurr SRNA and Russell Noth SRNA Adventist University of Health Sciences

Project Mentor: Christopher Lancaster MD Chief of Pediatric Cardiac Anesthesia at JLR Medical

Project Chain: Alescia DeVasher PhD CRNA NAP Director at Adventist University of Health Sciences

Description

Our project sought to increase the knowledge of student nurse anesthetists at the Adventist University of Health Sciences on pediatric cardiac anesthesia by creating a learning module and administering a pre and post module test. Scores were then compared to evaluate module effectiveness. In addition, a pediatric cardiac clinical rotation was established.

Review of Literature

Wolf (2012). History – early cardiac surgeries were proved clinically and principally on laboratory animal subjects. Early procedures were catastrophic by today's standards.

Leyvi (2005). During ASD and TOF repairs, early extubation was facilitated when caudal anesthesia was used in conjunction with general anesthesia.

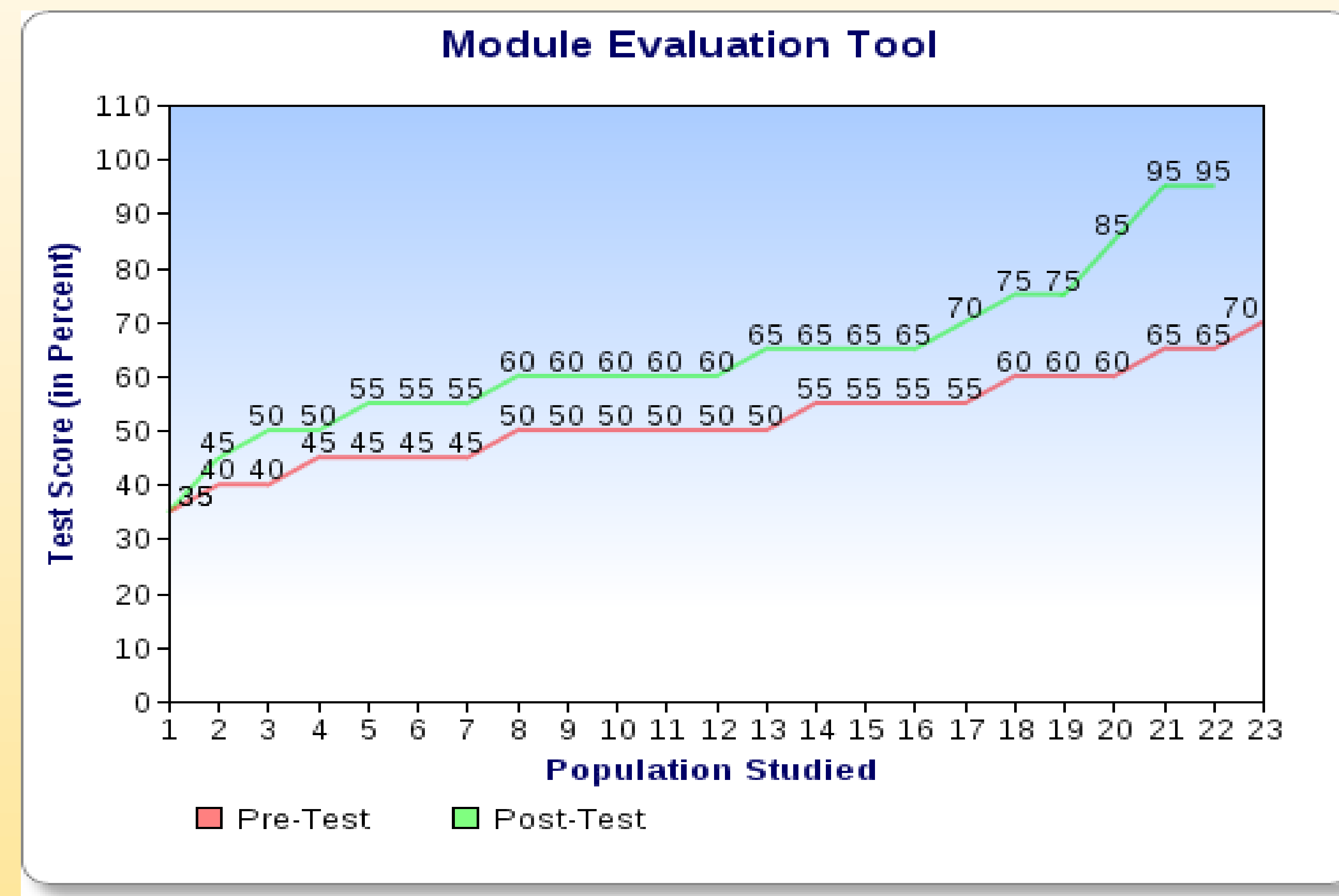
Wong & Morton (2011). TIVA proved to be beneficial due to myocardial preconditioning and free radical scavenging.

Praveen (2012). Dexmedetomidine provided opioid sparing properties leading to early extubation.

Davis (2011). Induction and maintenance with high dose fentanyl of sufenta provide greater hemodynamic stability with no adverse effect on intercirculatory mixing.

Vakamudi (2012). Demonstrated a lack of patient outcome differences when comparing aminocaproic acid with tranexamic acid during cardiopulmonary bypass.

Graph or image title



Results

- 1) Pre and post test scores revealed a 14.1% increase in test scores after module presentation and participant review.
- 2) Two senior SRNA's successfully completed a one month rotation in the pediatric cardiac operating rooms at Florida Hospital Orlando.
- 3) Eligible candidates will be evaluated by ADU faculty as well as JLR medical leadership for next year's rotations.

Results

The most interesting finding from this project was a 14.1% increase in student knowledge after module presentation. In addition, one of the most beneficial aspects of this project was the immeasurable experience gained through the clinical rotation. The addition of this rotation will set ADU apart from other programs.

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