

CPR Coach Competency Training for Acute Care Pediatric Nurse Practitioners



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Kids deserve the best.

What is a CPR Coach?

- Code team member who provides REAL TIME, VERBAL FEEDBACK of CPR performance directly to the chest compressor
- Gathers data from external and internal metrics to guide high quality CPR
- Redirects the workload of the team leader to global management

QCPR Coach Role Card

Monitor effectiveness of CPR by the following:

GOAL (influenced by rate/recoil) >25 under 1 year >30 If over 1 year

minimal goal >15

ZOLL (assure pads in proper place and compressors rotating) COMPRESSION RATE of 100 - 120 per minute COMPRESSION DEPTH Infants ~1.5 Inches (≥1/3 diameter of chest) **children ~2 inches** (≥1/3 diameter of chest) adults ~2 - 2.4 Inches (max)

Next Steps

- Refresher training frequency
- Remediation
- Rolling capture of new hires
- Analysis of Zoll® compliance data
- Data analysis, specifically comparison of trained and "untrained"
- Kirkpatrick Level 3 (Behavior-bedside) & Level 4 (Results) → Does it improve patient care and outcomes?

Kern's 6-Step Approach

- Visual assessment alone overestimates CPR quality
- CPR quality impacts outcome/survival
- Simulated studies = improved AHA compliance w/ CPR coach
- No standardized CPR Coach training currently exists

Needs **Assessment**

Problem

- Apprenticeship model
- Real time experiential learning
- Variability in practice

Goals & **Objectives**

- Knowledge, confidence, and readiness to effectively execute the CPR Coach role in real patient arrest events
- Association effect of improvement in AHA compliance

Educational Strategy

- Flipped classroom methodology
- Pre/Post knowledge test
- Pre/Post survey regarding knowledge, skills, & attitudes
- Rapid Cycle Deliberate Practice (RCDP) simulation

Implement-

- Learners: Critical Care Pediatric Nurse Practitioners
- Rolling recruitment, currently 90% trained
- Supported by leadership
- Creation of a CPR Coach cognitive aid
- ation

Eval &

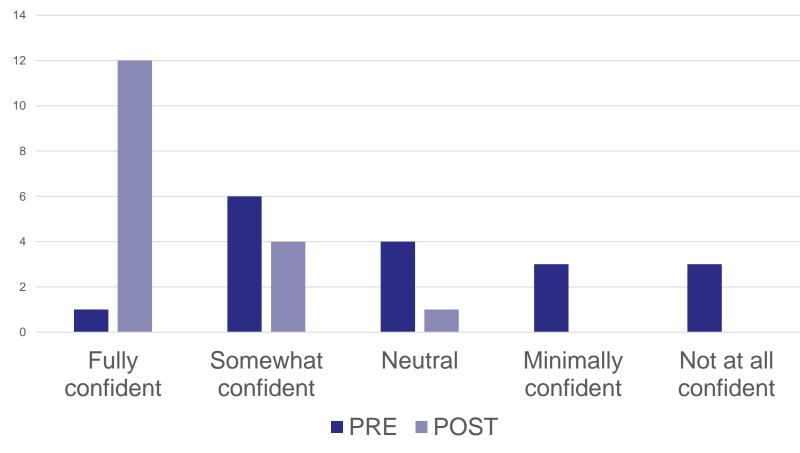
Feedback

- Survey results = more confident
- Knowledge test performance = improved
- Kirkpatrick Level Outcomes

Outcomes

- Kirkpatrick Level 1 (Reactions)
- Training overall rated "good" & "excellent"
- Strengths: RCDP simulation method, small learner groups, & hands-on practice
- Improvement opportunity: more time
- Kirkpatrick Level 2 (Learning)
- Confidence

Survey item: I feel confident in my ability to function effectively as a CPR Coach right now



- Knowledge test performance

Knowledge Test Scores (n=17) % correct item responses		
	PRE	POST
Range	41.7 - 83.3%	50 - 100%
Mean	57.8%	85.3%

- Kirkpatrick Level 3 (Behavior-simulation)
- Simulated performance to level of "perfection" as defined by expert observers & per RCDP methodology