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Alyssa Stoner
Kadriye O. Lewis
Jennifer Flint
Shekinah Hensley
Brian Lee

See next page for additional authors

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Authors
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Guided Mentorship: Enhancing Pediatric Resident's Skills in Cardiopulmonary Resuscitation

Alyssa Stoner, MS, DO; Kadriye O. Lewis, EdD; Jennifer Flint, MD; Sheikah Hensley, MSN, RN,CCRN; Brian Lee, PhD; Jenna Miller, MD

Children’s Mercy Kansas City, Kansas City, MO; University of Missouri Kansas City School of Medicine, Kansas City, MO

Graph 1. Desired Behaviors

5 Pillars: Development of expertise

- Mentoring
- Coaching
- Articulating
- Reflecting
- Exploring

- Models desired skills
- Guided scenario
- Debriefing session
- Post scenario survey
- Future patient interactions/
  Simulations

- Pre- PICU Survey Completion: 44/55
- Post-PICU Survey: 26/38 (14 exposed; 12 unexposed)
- Code LITE in-situ simulation session: 24/29 completed
- Over half, 57.1 % strongly agreed to prefer guided mentorship during simulation
- Observation data N=20
  - Compared to residents, mentors are more likely to display behaviors in the desired domains: Task delegation, crisis control, shared mental modeling, clear communication, closed loop communication and listening to team input
  - 90% of mentors encourage resident participation
  - 80% of mentors actively teach during scenario
  - 70% of mentors utilize shared mental modeling

Figure 1. Educational Framework

- Literature supports multiple aspects of simulation-based training to impart technical skills and behavioral skills
- Effects of different pedagogies have not been investigated in simulation
- Pediatric residents have minimal exposure to pediatric cardiopulmonary resuscitation (CPR) due to restrictions in work hours and increasing quality and safety initiatives
- Code LITE (Low-tech, Internal, Training Experience) is a simulation environment for our residents utilizing a guided mentorship approach, known as cognitive apprenticeship
- Residents completed pre and post rotation surveys and participating residents were observed during their simulation experience
- Just-in-time, in-situ simulation program
- 10 minute specific scenario with 10 minute debriefing session
- Interprofessional team: nurses, respiratory therapists, pharmacists, attending physicians and pediatric residents

Description

- Development of cognitive skills
- Interactions between experts and novices
- Authentic learning environment

Discussion

- Preliminary data demonstrates that it is feasible to conduct Code LITE with guided mentorship within a large academic PICU
- Residents are exposed to behaviors in desired domains through mentor interaction
- Guided mentorship approach is well-aligned with the framework of cognitive apprenticeship within an in-situ simulation environment
- Facilitates residents’ learning behaviors/skills necessary to lead a pediatric CPR scenario
- A majority of residents endorse positive learning experience, and would recommend the experience to their peers

References