

Children's Mercy Kansas City

SHARE @ Children's Mercy

Posters

5-2018

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

Alyssa Stoner

Children's Mercy Hospital

Kadriye O. Lewis

Children's Mercy Hospital

Jennifer Flint

Children's Mercy Hospital

Shekinah Hensley

Children's Mercy Hospital

Brian Lee

Children's Mercy Hospital

See next page for additional authors

Let us know how access to this publication benefits you

Follow this and additional works at: <https://scholarlyexchange.childrensmercy.org/posters>



Part of the [Critical Care Commons](#), [Medical Education Commons](#), and the [Pediatrics Commons](#)

Recommended Citation

Stoner, Alyssa; Lewis, Kadriye O.; Flint, Jennifer; Hensley, Shekinah; Lee, Brian; and Miller, Jenna, "Guided Mentorship: Enhancing Pediatric Resident's Skills in Cardiopulmonary Resuscitation" (2018). *Posters*. 215. <https://scholarlyexchange.childrensmercy.org/posters/215>

This Poster is brought to you for free and open access by SHARE @ Children's Mercy. It has been accepted for inclusion in Posters by an authorized administrator of SHARE @ Children's Mercy. For more information, please contact hlsteel@cmh.edu.

Authors

Alyssa Stoner, Kadriye O. Lewis, Jennifer Flint, Shekinah Hensley, Brian Lee, and Jenna Miller

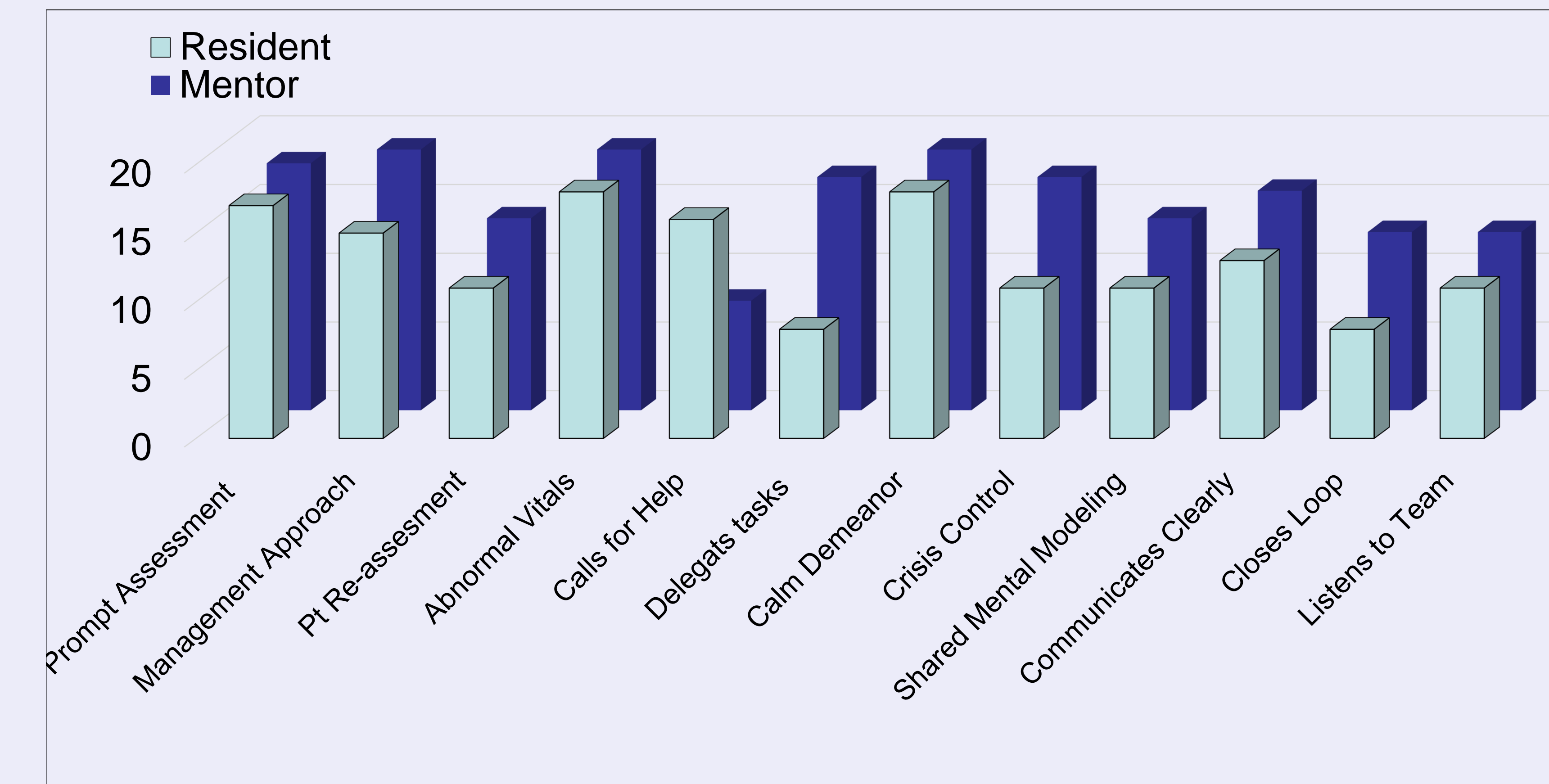
Context

- Literature supports multiple aspects of simulation-based training¹⁻⁵ 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 initiatives⁶
- 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

Observation/Evaluation

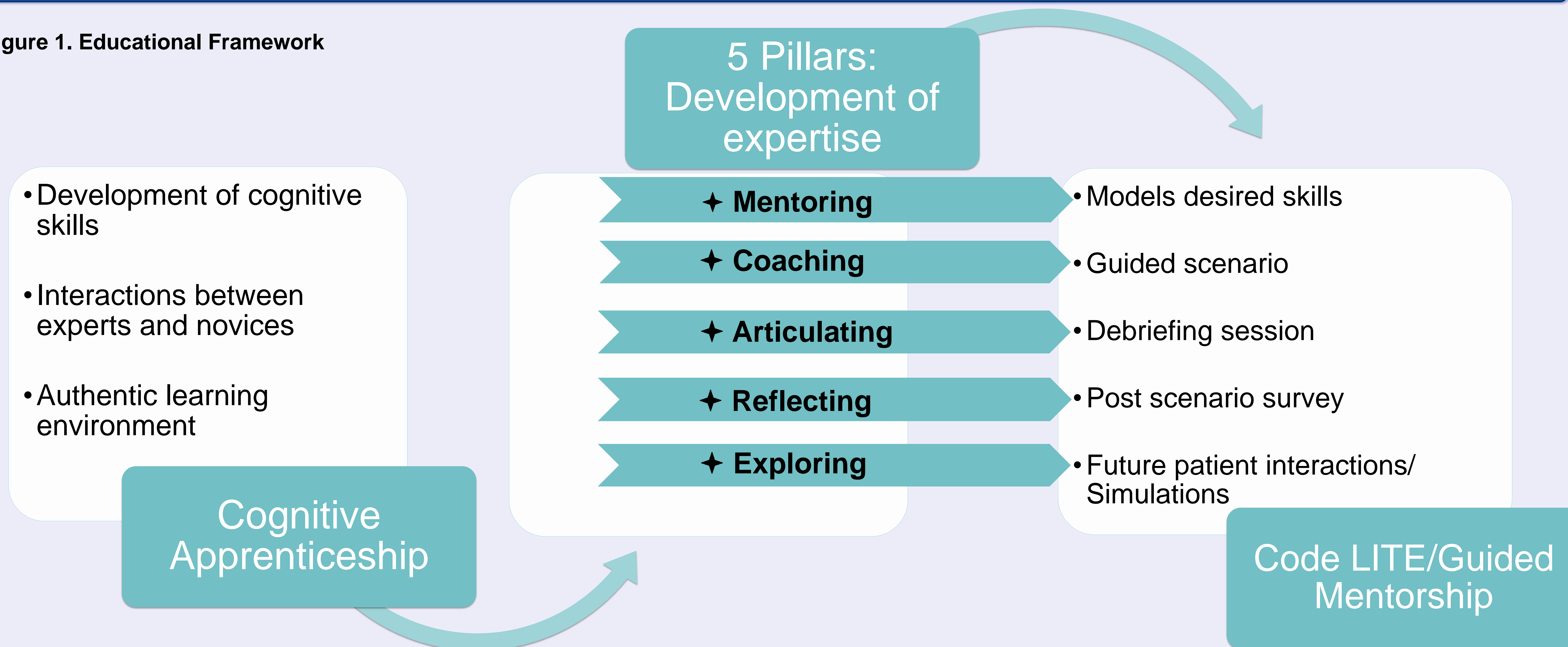
- Pre- PICU Survey Completion: 44/55
- Post-PICU Survey: 26/38 (14 exposed; 12 unexposed)
- Code LITE in-situ simulation session: 24/29 completed
- Over half, 57.1 % strongly agreed to prefer guided mentorship during simulation
- Observational data n=20
 - Compared to residents, mentors are more likely 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

Graph1. Desired Behaviors



Description

Figure 1. Educational Framework



Discussion

- Preliminary data demonstrates that it is feasible to conduct Code LITE with guided mentorship within in 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

1. Biese KJ, et al. Using screen-based simulation to improve performance during pediatric resuscitation. Academic emergency medicine : official journal of the Society for Academic Emergency Medicine. 2009;16 Suppl 2:S71-5.
2. Nadel FM, et al. Teaching resuscitation to pediatric residents: the effects of an intervention. Archives of pediatrics & adolescent medicine. 2000;154(10):1049-54.
3. Van Schaik SM, et al. Pediatric resident confidence in resuscitation skills relates to mock code experience. Clinical pediatrics. 2008;47(8):777-83.
4. Hunt EA, et al. Pediatric resident resuscitation skills improve after "rapid cycle deliberate practice" training. Resuscitation. 2014;85(7):945-51.
5. Stone K, et al. Increasing pediatric resident simulated resuscitation performance: a standardized simulation-based curriculum. Resuscitation. 2014;85(8):1099-105.
6. Mickelsen S, et al. Reduced resident "code blue" experience in the era of quality improvement: new challenges in physician training. Academic medicine : journal of the Association of American Medical Colleges. 2011;86(6):726-30.
7. Dennen VP, Burner KJ. The cognitive apprenticeship model in educational practice. Handbook of research on educational communications and technology. 2008;3:425-39.

