Paediatric Project ECHO® for Managing Pain in Children & Youth: Use of Simulation-Based Learning to Enhance Healthcare Providers' Clinical Skills

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Background

What is Project ECHO®?

"**E**xtensions for **C**ommunity **H**ealthcare **O**utcomes" Project ECHO® is an innovative model for health professional education. Scan the QR code for more information about Project ECHO®.

Paediatric Project ECHO® for Pain

Goals of Pain ECHO Education Event (E3)

(1) For healthcare providers to develop core competency in paediatric acute and chronic pain management.

(2) To incorporate simulation-based learning to promote skils development.

Study Objective

To evaluate the two-day ECHO E3 in terms of:

- **Acceptability** and **satisfaction**;
- Changes in healthcare provider **knowledge** and **self-efficacy.**

Methods

- Prospective, mixed-method study with repeated measures (post-E3, 6M and 12M).
- Data collection managed via REDCap.
- Study approved by local Research Ethics Board.

Results

Scan the QR code for complete and interactive study results.

Participant Demographics

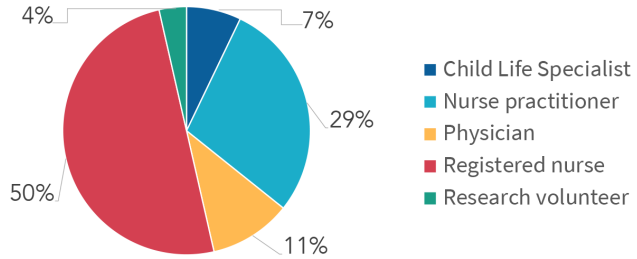

Figure 1. Professional breakdown of E3 participants, n = 28.

Change in Knowledge

For my scope of practice, I currently have an appropriate level of knowledge to…

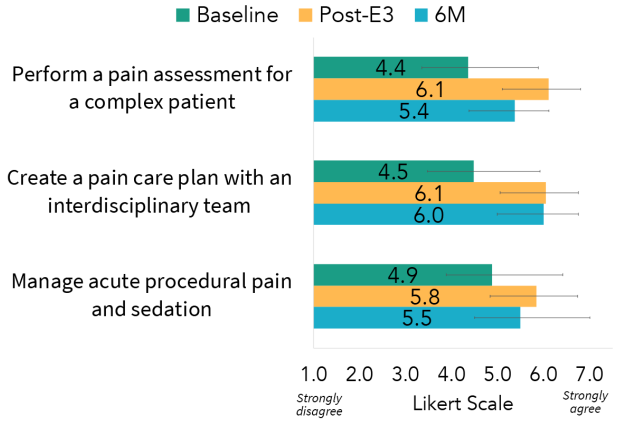

Figure 2. Knowledge related to simulation-based scenarios at baseline (n = 25), post-E3 (n = 20), and 6M (n = 8), using a 7-point Likert scale where 1 = "strongly disagree" and 7 = "strongly agree". Error bars represent standard deviations.

Results (Continued)

Change in Self-Efficacy

For my scope of practice, I feel confident in my ability to…

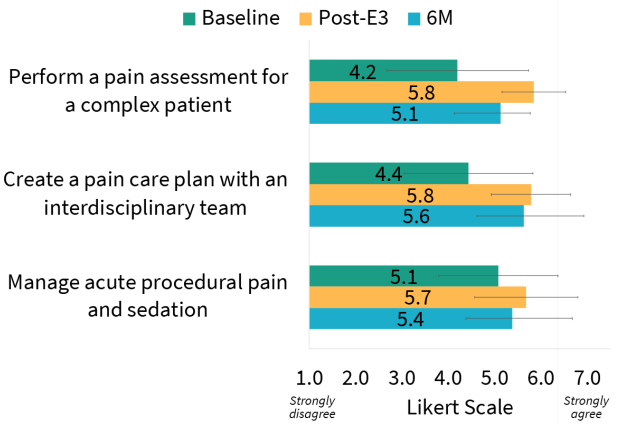

Figure 3. Self-efficacy related to simulation-based scenarios at baseline (n = 25), post-E3 (n = 20), and 6M (n = 8), using a 7-point Likert scale where 1 = "strongly disagree" and 7 = "strongly agree". Error bars represent standard deviations.

Conclusions

- E3 participants report moderate-to-high acceptability and satisfaction with simulation-based learning.
- Increases in knowledge and self-efficacy were observed post-E3 and at 6M.

Acknowledgements

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