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Using high-fidelity simulation as an innovative approach to family education for children requiring chronic ventilation

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Jodi Lucas Thrasher, MSN, C-FNP, RN

Joyce Baker MBA, RRT-NPS, AE-C

Children's Hospital Colorado, Aurora, Colorado

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3 **Objectives**

- Describe innovative ways to utilize high fidelity simulation for educating families caring for children who require chronic ventilation
- Explore the steps to utilizing high fidelity simulation with family caregivers

4 **Breathing Institute**

5 **Ventilator Care Program**

6 **Imagine**

7 **Family Caregiver Education Toolbox**

- Performance Based Education utilizing teach back
- Interdisciplinary approach
- Videos
- Handouts
- CPR training

8 9 **Literature**

Tofil, N., et al. (2012). Ventilator caregiver education through the use of high-fidelity pediatric simulators: A pilot study. *CLIN PEDIATR* 2013 52: 1038

Sullivan -Bolyai S., Bova C., Lee M., & Johnson K. (2012). Development and pilot testing of a parent education intervention for type 1 diabetes: Parent education through simulation-diabetes. *The diabetes educator* 2012; 38:50-57.

10 **Logistics**11 **Evaluation**12 **Results**

40 caregivers for 21 individual patients

Table 1: Two sample t-test comparing family response to debrief

13 **Results**

Table 2: Two sample t-test Simulation as compared to:

14 **Next steps**

- Add additional manikins to match the size of the child
- Expand to include family caregivers of tracheostomy patients

- Explore opportunities to partner with home care community to offer simulation

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