



To measure performance, fidelity and preference of two emergency umbilical vessel catheter (eUVC) simulation models” Awyer et al (2017).

Abstract:

Objective: To measure performance, fidelity and preference of two emergency umbilical vessel catheter (eUVC) simulation models.

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Study Design: A randomized crossover trial of senior pediatric residents randomized to place an eUVC first using a real cord (RC) or simulated cord (SC), and then place an eUVC using the other model. The eUVC placement times were recorded and analyzed. Subjects rated physical and functional fidelity and preference for each model.

Results: The eUVC placement time (mean±s.d. s) was slower in RC vs SC (153 s ±71 vs 88 s ±35, P<0.001), however, there was no difference in eUVC placement time in the group that worked with SC first (115 s ±36 vs 97 s ±35, P=0.161). Physical and functional fidelity of RC were rated higher than SC (P<0.001), and RC were preferred.

Conclusion: RC has higher physical and functional fidelity, and are preferred for training by pediatric residents, despite longer placement times.

Reference:

Sawyer, T., Starr, M., Jones, M., Hendrickson, M., Bosque, E., McPhillips, H. and Batra, M. (2017) Real vs simulated umbilical cords for emergency umbilical catheterization training: a randomized crossover study. *Journal of Perinatology* 37, p.177-181.

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