

This technical report describes the creation and use of a real human umbilical cord simulator model for emergency umbilical venous catheter placement training” Sawyer et al (2018).

Abstract:

Emergency umbilical venous catheter placement is a critical procedure during newborn resuscitation. Providing training in this high-acuity and low-frequency procedure is important to optimize the skills of newborn resuscitation teams. Available simulators use simulated umbilical cords which are lower in fidelity than real human umbilical cords and may not provide optimal training. This technical report describes the creation and use of a real human umbilical cord simulator model for emergency umbilical venous catheter placement training. This low-cost model provides learners the opportunity to experience placing an emergency umbilical venous catheter in a real umbilical cord, providing a more realistic training model than currently available commercial simulators.

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Reference:

Sawyer, T., Gray, M., Hendrickson, M., Jacobson, E. and Umoren, R. (2018) A Real Human Umbilical Cord Simulator Model for Emergency Umbilical Venous Catheter Placement Training. *Cureus*. 10(11), p.e3544.

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