

Two methods of fluid resuscitation-the commonly used push-pull technique (PPT) and a new fluid infusion technique using the LifeFlow device (410 Medical, Inc; Durham, NC)-were compared in a simulated patient model” Spangler et al (2019).

Abstract:

Rapid fluid resuscitation is used to treat pediatric septic shock. However, achieving fluid delivery goals while maintaining aseptic technique can be challenging. Two methods of fluid resuscitation-the commonly used push-pull technique (PPT) and a new fluid infusion technique using the LifeFlow device (410 Medical, Inc; Durham, NC)-were compared in a simulated patient model. PPT was associated with multiple aseptic technique violations related to contamination of the syringe barrel. This study confirms the risk of PPT-associated syringe contamination and suggests that this risk could be mitigated with the use of a protected syringe system, such as LifeFlow.

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Reference:

Spangler, H., Piehl, M., Lane, A. and Robertson, G. (2019) Improving Aseptic Technique During the Treatment of Pediatric Septic Shock: A Comparison of 2 Rapid Fluid Delivery Methods. *Journal of Infusion Nursing*. 42(1), p.23-28.

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