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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