

Use of interchangeable, single-design IV sets across gravity and automated infusions minimizes disruptions to closed systems, may reduce nurses being distracted from patients' clinical needs when replacing sets, and may yield supply cost savings" Hedlund et al (2017).

Abstract:

This retrospective study of 6426 hip replacement, coronary artery bypass graft, and colectomy surgeries across 23 US hospitals found that intravenous (IV) set designs that can be interchanged for use both in gravity-fed and automated pump delivery systems are replaced less frequently than IV sets designed for use primarily by one delivery method. Semistructured interviews with nurses highlighted the impact of set design on nursing workflow when moving between gravity-fed and pump-based administration. Use of interchangeable, single-design IV sets across gravity and automated infusions minimizes disruptions to closed systems, may reduce nurses being distracted from patients' clinical needs when replacing sets, and may yield supply cost savings.

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Reference:

Hedlund, N., Sarangpur, S., Kayler, S., O'Brien, K. and Beer, I. (2017) Primary Intravenous Set Consumption Across 3 Branded Infusion Pumps. *Journal of Infusion Nursing*. 40(4), p.206-214.

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