

## **A Randomized Controlled Trial to Compare the Complications of 2 Peripheral Intravenous Catheter-Stabilization Systems**

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### **Abstract**

An open-label, prospective, randomized, noninferiority study was conducted at a large academic, Magnet-designated, Level I trauma center to compare the peripheral intravenous catheter securement-related complication rates of 2 different stabilization systems. The control stabilization system included the StatLock device with a nonwinged catheter, and the investigational stabilization system included a closed catheter system with a specially designed Tegaderm dressing. Data from 302 subjects indicated that the investigational stabilization system was noninferior or similar to the control stabilization system with respect to the overall securement-related complications. The cost of the investigational stabilization system was approximately 75% of the cost for the control stabilization system.