

# CLINICAL EVIDENCE

## **Clinical Evaluation of the Sorbaview® SHIELD Securement Device Used on Peripheral Intravenous Catheters in the Acute Care Setting**

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### **Abstract**

Peripheral intravenous therapy (PIV) is probably the most common acute care invasive procedure, estimated at 90 percent for all inpatients. Current standards of practice recommend the use of a manufactured catheter stabilization device to secure PIVs. At FirstHealth Moore Regional Hospital (MRH), the PIV policy requires the use of a stabilization device to achieve a 96 hour dwell time for the PIV. The hospital does not utilize an intravenous therapy team; all nurses can insert PIVs and apply the dressing. In 2009, as a cost reduction measure, MRH changed securement devices from a two piece dressing and securement device to the SorbaView SHIELD (SHIELD). A clinical evaluation of the SHIELD was conducted in January 2010, with 109 medical-surgical patients with PIVs, to demonstrate the expected cost savings associated with the SHIELD by maintaining the PIV for 96 hours and meeting patient and staff expectations. In 91.5% of the patients, the PIV stayed in for the length of stay (if less than 96 hours) or for 96 hours, only eight patients had unscheduled restarts. Eighty-six percent of nurses surveyed rated the device as excellent to good. Ninety-one percent of patients reported no discomfort of their PIV site. Changing to this device in 2009 has resulted in an average annual cost savings of \$120,000 over the two piece device and has improved compliance by nursing.

### **Summary**

The purpose of this study at FirstHealth Moore Regional Hospital (MRH) was to perform a clinical evaluation of the SorbaView Shield dressing to demonstrate the anticipated cost savings of the device related to the reduction of unscheduled restarts. The study also sought to demonstrate clinician satisfaction with the dressing.

### **Key Points**

- 109 patients were enrolled
- 91.5% of the patients IVs made it to either discharge or 96 hours
- 86% of the nurses surveyed rated the securement dressing as good to excellent
- The annual cost savings over the hospitals previous product was \$120,000