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Implementation of a Nurse Champion Program to Reduce Peripheral Intravenous Infiltration and Extravasation (PIVIE)

PURPOSE

The goal for the quality improvement project described was implementation of a peripheral intravenous infiltration and extravasations (PIVIE) prevention nurse champion program to reduce the PIVIE rate in a pediatric acute care unit.

BACKGROUND

PIVIEs are a hospital-acquired condition that cause patient harm and can lead to increased length of stay and patient dissatisfaction. A prominent academic pediatric hospital that strives to improve the quality of patient care and patient safety has made attempts to reduce the incidence of PIVIEs by implementing initiatives to enhance the nurse's awareness through education. Although there had been incremental improvement in reducing PIVIEs, the organization continues to be challenged with sustaining the reduction in PIVIEs throughout its acute care setting.

METHODOLOGY

The project followed the Institute for Healthcare Improvement (IHI) Model for Improvement methodology. The intervention included the implementation of a PIVIE champion, a role enhanced by rounding,

improved safety huddles to include PIVIEs, and the initiation of a PIVIE debrief process.

RESULTS

The unit PIVIE rate pre-implementation was 17.1 incidents per 1000 patient days; and after three months, this rate decreased to 13.9, a statistical significance in reduction $t= 32$; ($p<0.001$). Compliance with PIVIE documentation by hospital policy increased from 40% to 79% during this same period, and there was a reduction in PIVIE severities.

IMPLICATIONS

Implementing the PIVIE nurse champion program proved valuable in raising awareness at the unit level, and is a process that could be implemented on other units.