

Standard drug concentrations and smart-pump technology reduce continuous-medication-infusion errors in pediatric patients.

April 11, 2011

Larsen G, Parker HB, Cash J, et al. Standard drug concentrations and smart-pump technology reduce continuous-medication-infusion errors in pediatric patients. *Pediatrics*. 2005;116(1):e21-e25.

<https://psnet.ahrq.gov/issue/standard-drug-concentrations-and-smart-pump-technology-reduce-continuous-medication-infusion>

This study evaluated the impact of three independent medication safety interventions on the incidence of reported infusion errors. Investigators collected data before and after the interventions and discovered a 73% reduction in reported errors. The authors conclude that implementation of new technology in conjunction with simple system changes provides opportunities to improve the safety of care in an increasingly complex health care environment.