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In adult ICU patients with central lines, does improved staff adherence to the CLABSI prevention clinical practice guidelines reduce the incidence of CLABSIs?

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A central line-associated bloodstream infection (CLABSI) is a serious infection that occurs when bacteria or viruses enter the bloodstream through the central line. **Background:** This project is important because central line-associated bloodstream infections increase hospital mortality rates, lengths of stay, and 30-day readmission rates. They also impose heavy financial burdens on hospital systems. Furthermore, out of all the nosocomial infections, central line-associated bloodstream infections have the highest and most recent incidence rates in this adult ICU unit. **Purpose:** This project aims to identify an intervention to improve staff adherence to the CLABSI prevention bundle and decrease the rate of central line-associated bloodstream infections. **Brief Literature Review:** I performed a systematic literature review guided by the Johns Hopkins Evidence-Based Practice Model. The databases used were CINAHL, EBSCOhost, and PubMed. The keywords I searched were adult ICU patients, CLABSI prevention, critically ill patients, and central line infections. Only research literature from the last five years was retrieved. Other inclusion criteria included peer-reviewed articles, adult patients, and patients in the ICU. **Methods:** To improve staff adherence, daily reminders during shift hurdles to the nurses about nurses' responsibility in preventing CLABSIs. This includes daily chlorhexidine gluconate (CHG) baths, daily linen changes, putting curoc caps to all central line tubing, and ensuring the dressing is intact. **Evaluation:** To evaluate staff adherence, a weekly chart review of patients with central lines will be done to ensure the nurses applied and documented the CLABSI prevention bundle. Eventually, a reduction in the rate of central line-associated bloodstream infections within six months will be a proper indication of the effectiveness of this project.