

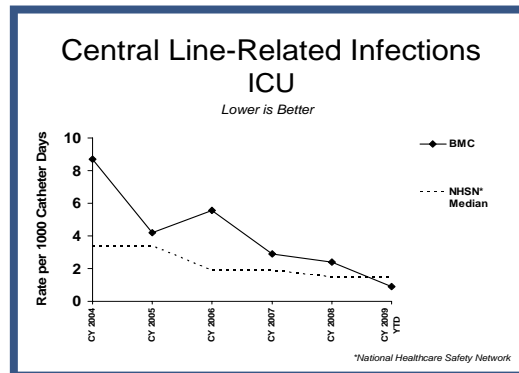
PREVENTION OF CENTRAL LINE INFECTIONS

Where we've been...

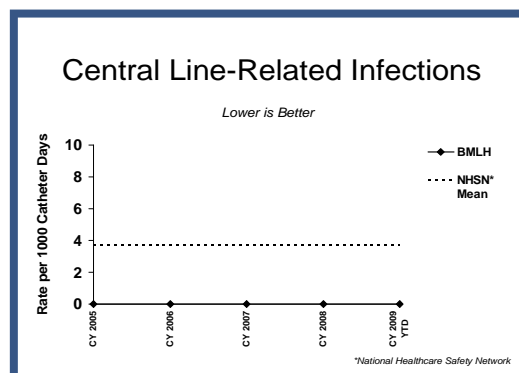
Preventing Central Line-Related Bloodstream Infections (CL-BSI) Ensure that evidence-based prevention interventions (CL-BSI prevention bundle) that decrease or eliminate the risk of infection are used every time a central venous catheter is inserted. The interventions are hand washing before and after the procedure, using maximal barrier precautions and full barrier attire during the insertion (inserter and those in attendance), using chlorhexidine skin preparation, using antimicrobial impregnated foam dressing, picking the correct body location, inserting impregnated catheters, changing the catheter only when necessary, and aseptic management of the lines, tubings and infusate. Collaboration between all three BH hospitals has resulted in the development of an invasive line procedure note to promote and document the use of evidence-based interventions, as well as the pre-procedure time out. This form also provides information to do a root cause analysis in the event a BSI develops. The documentation tool went live system-wide in CIS on August 1, 2007, and is used more than 90% of the time. Additionally, the Massachusetts Department of Public Health requires mandatory external reporting of CL-BSI in all ICU patients and internal reporting to include CL-BSI in all inpatients with central lines.

Where we are now...

BAYSTATE MEDICAL CENTER Best practices for insertion of central lines are taught and validated using the Simulation Lab. In addition, a mandatory on-line education program and mentoring by expert clinical staff have been incorporated into the learning. Dedicated advanced practice nurses insert lines in the NICU, and all practice sites have implemented the CL-BSI prevention bundle. Standardization of line carts, equipment, products, policies, and procedures for insertion and post-insertion care have helped to significantly decrease rates of central line-related bloodstream infections hospital-wide. CL-BSI rates in some units are zero for the first time in 2009.

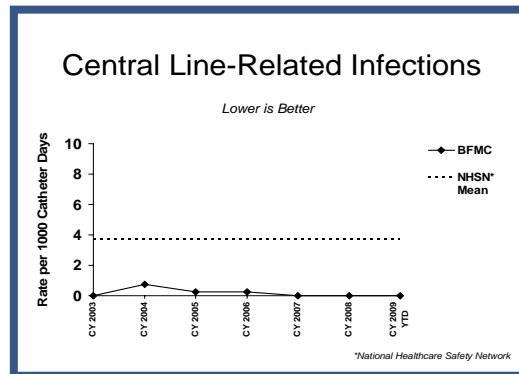


BAYSTATE MARY LANE HOSPITAL BMLH has essentially eliminated central line-related bloodstream infections; there has not been a CL-BSI at BMLH for the past 5 years. To ensure the zero rate continues, the Infection Control Department offers a refresher in the insertion, care, and documentation of central lines. BMLH has also created central line kit "packages," containing the system insertion documentation form and all necessary barrier attire to ensure compliance with insertion guidelines.

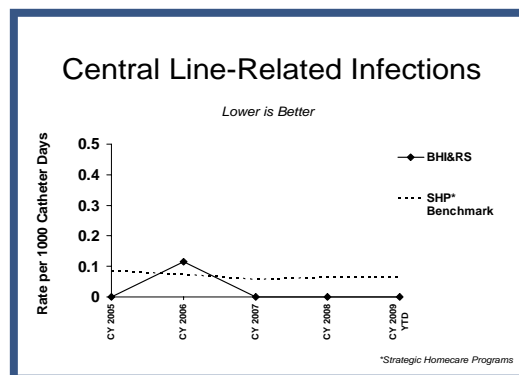


PREVENTION OF CENTRAL LINE INFECTIONS

BAYSTATE FRANKLIN MEDICAL CENTER BFMC's multidisciplinary team worked with the Infection Control and Critical Care Committees to purchase a standardized central line kit that enables providers to have the necessary equipment to support reliable application of the evidence-based recommendations during insertion of central lines. Refresher education is provided to all staff involved in the insertion and care of central lines, as well as use of the electronic insertion procedure note. Education is provided to all new providers as they begin practice at BFMC. Patient Care Services collects device days to determine the central line-related bloodstream infection rate and compliance with the CL-BSI prevention bundle during insertion. The current compliance rate is 100%, and there have been no central line-related blood stream infections in nearly 3 years.



BAYSTATE HOME INFUSION & RESPIRATORY SERVICES BHI&RS has implemented all of the BH recommended central line-related bloodstream infection prevention interventions, including biopatch and chlorhexidine gluconate dressings. There have been no central line-related bloodstream infections for the last 24 months, which is better than the Strategic Homecare Programs national benchmark of 0.06.



Where we are going...

Continued national and state focus on prevention of central line-related bloodstream infections and public reporting of rates reinforce Baystate Health's commitment to preventing hospital acquired infections, thereby ensuring high quality safe care.