OSF St. Francis Medical Center– Central Line-Associated Blood Stream Infections

OSF Saint. Francis Medical Center Peoria, IL

Submitted by the J.C.R. H.E.N. with hospital permission

1. Adverse Event Title and Baseline Rate: Reduction in Central Line-Associated Blood Stream Infections

2. Introduction and Background of the Adverse Event: Central line-associated blood stream infections continues to be one of the most deadly and costly hospital-acquired infections in the United States. C.L.A.B.S.I.s have a 12% to 25% mortality rate. Of the 15 million central venous catheter days of exposure in I.C.U.s, there are 80,000 C.L.A.B.S.I.s.

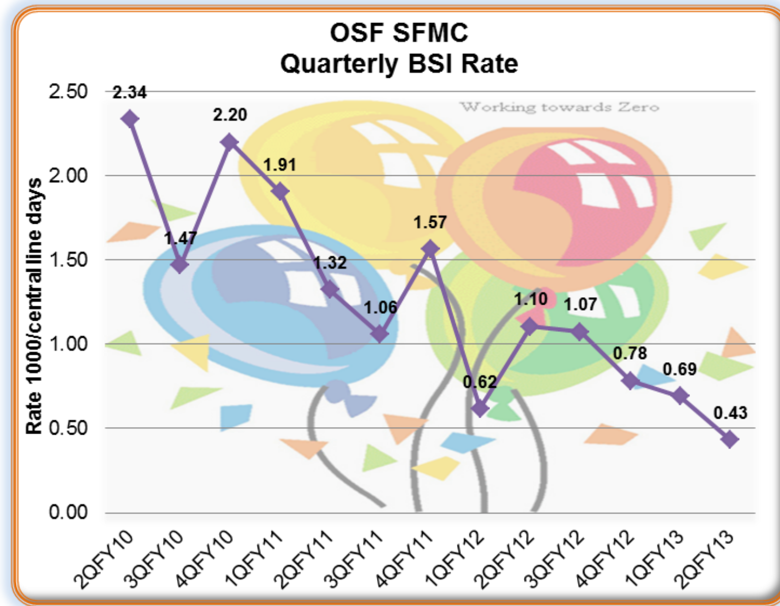
3. Project AIM Statement / Goal: Baseline: 2QFYY10: 2.34
   May 2013: 0.26

4. Challenges and Barriers Faced:
   a. Physician level
      i. Removal of unneeded line
      ii. Defining criteria for line necessity
      iii. Use of Stat-Lock, Position for BioPatch on insertion
   b. Nursing level
      i. Dressing care (no change date/time/not occlusive)
      ii. Tubing maintenance (no hang date/time, expired)

5. Methods Used to Launch the Effort:
   a. Change to C.H.G. impregnated patch at insertion site (BioPatch)
   b. Updated dressing kit to be all inclusive
   c. Changed to translucent and neutral caps
   d. Added C.H.G. bath for all C.V.C. pts (Except leuk on chemo-patch test first)
   e. Updated care/maintenance procedures
   f. Added annual re-education to all staff that handle lines, added return demonstration to competency training
   g. Point of care education by P.I.C.C. team on insertion with monthly point of care maintenance audits
   h. Infection Practitioner Point of care audits on units having a patient with a C.L.A.B.S.I.
   i. Unit Point of Care audits on 10 patients minimum monthly

j. Insertion checklist on all lines with tracking by Quality/Safety department on any gaps
k. Encouraged Stat-Lock and position for BioPatch on insertion
l. Root cause analysis on all C.L.A.B.S.I. incidents (include physician, nursing, lab feedback)

6. Results: Copy of the Run Chart



7. What has been embedded in the system that has sustained the change?
   a. Point of care audits by professional nursing congress
   b. C.H.G. baths

8. Respectfully submitted by:_Patricia Ham Date: 6-28-13