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Thinking Outside the Box: Development and Utilization of a PICC Suite
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PICO Methodology

P: Patient’s requiring PICC line insertion at bedside and challenges related to maintaining maximum barrier protection.

I: Identify a separate space, in close proximity to radiology, to provide a controlled environment to increase compliance of IHI central line bundles related to maximum barrier protection and reduction of risk for infection.

C: Comparison of central line infection rates in patients who have had a PICC line inserted at bedside versus those placed in the PICC Suite.

O: Improved patient and staff satisfaction, staff efficiency and productivity, earlier turn-around-time for treatment, consistent Time Out processes, and maintain the National Healthcare Safety Network (NHSN) hospital’s 10th percentile for catheter line associated bacteremia.

Limitations

Exclusion Criteria

- Intensive Care Unit patients
- Patients isolated in a negative pressure room
- Continuous Fetal Monitoring patients
- Pediatric patients requiring sedation

Conclusions

Lehigh Valley Health Network is a Magnet-designated, multi-site facility comprised of 981 acute care beds.

- 3,990 - total number of PICC lines inserted at Cedar Crest Campus from January 18, 2010 through June 30, 2011
- 1,758 inpatient PICC lines inserted in the suite since opening in January 2010
- 46 percent of inpatient PICC lines inserted in suite
- 41% - 2010
- 51% - 2011
- Annual infection rate
  - Cedar Crest Campus – 0.38
  - Muhlenberg campus – 0.24
- Although no affect on annual infection rate, remain at the NHSN 15th percentile

Next Steps

- Evaluate feasibility for additional PICC suite at the Muhlenberg campus

Outcome Evaluation

- Improved patient and bedside nurses satisfaction
  - Post procedure door to x-ray < 10 minutes
  - Early initiation of treatments and interventions post procedure
  - Enhanced PICC nurses satisfaction
  - Reduction of interruptions and maintain patient privacy
  - Centralized supplies
  - Expansion of services to outpatient population
    - Annual revenue realized – $130,000

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