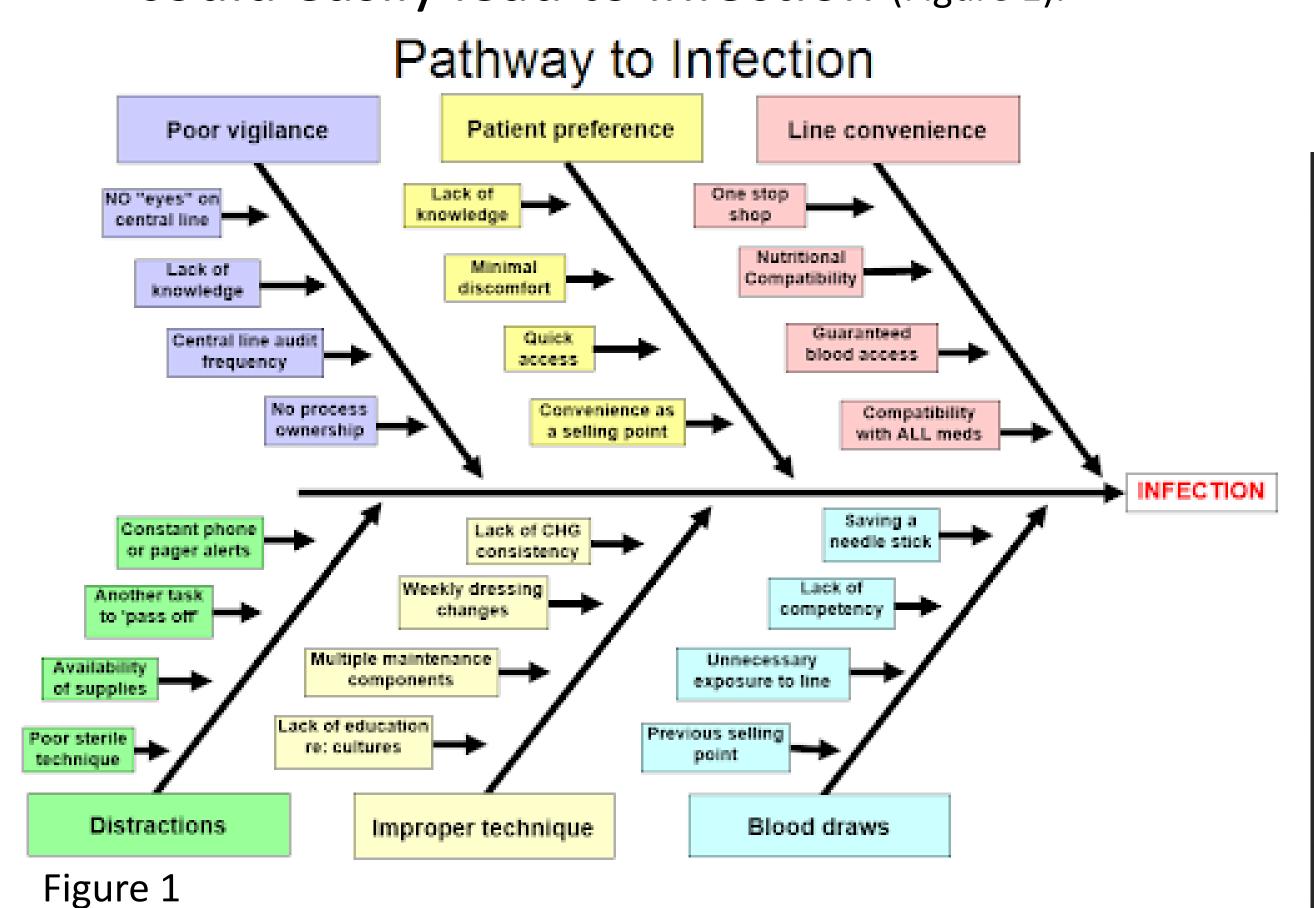
# Asking BEFORE Accessing: Increasing Patient Safety While Decreasing Central Line Utilization CHI Health Lakeside Hospital Omaha, NE



### Background

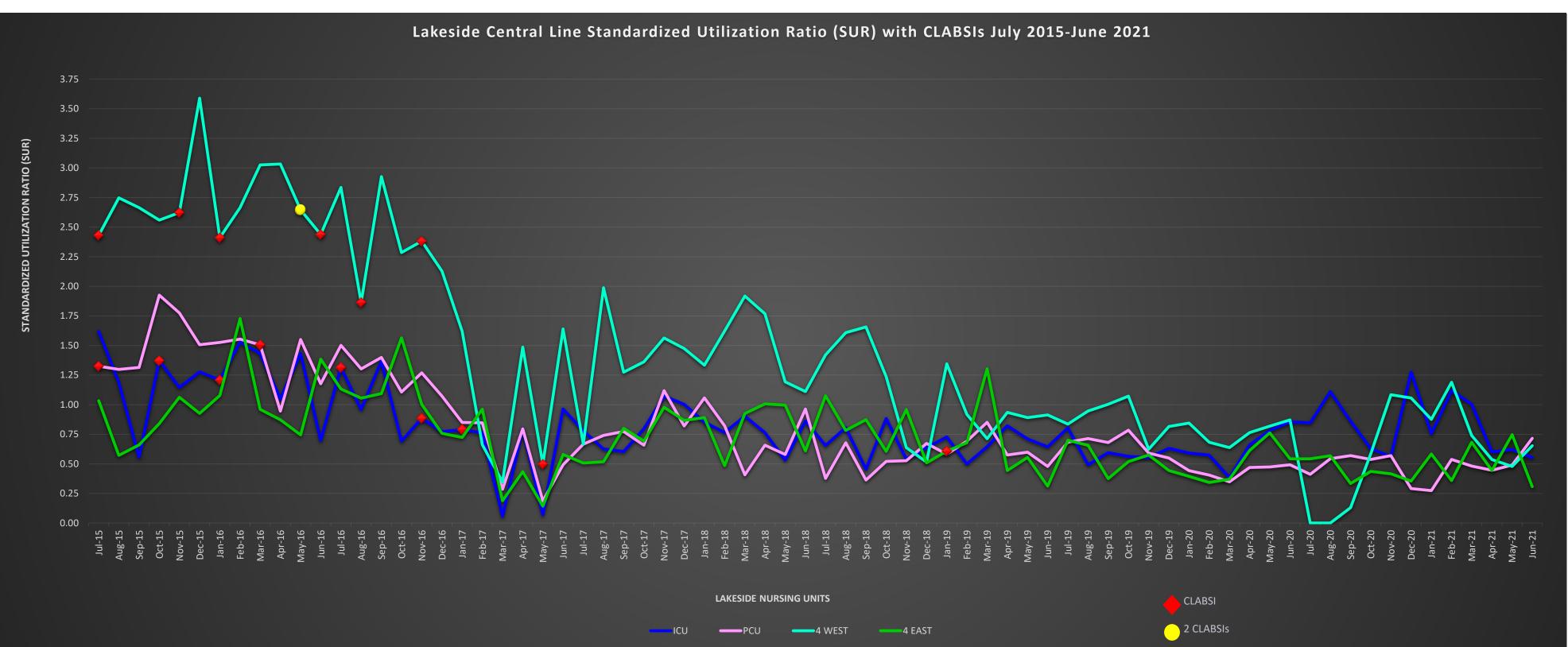
- CHI Health Lakeside: 157 bed acute care hospital located in the Omaha Metro.
- Despite no change in nursing practice, a dramatic rise in Central Line Associated Blood Stream Infections (CLABSI) was noticed and reviewed in early 2016.
- FY2016 CLABSI SIR: 2.55, SUR: 1.54 (Figure 3)
- CLABSI task force was formed by staff active in quality improvement and shared governance.
- Research, literature reviews and point prevalence studies were completed to look for themes. The taskforce developed strict standards for central line care and a strong stance as to when they are appropriate for use. Mapping out the various issues that could easily lead to infection (Figure 1).



Monitoring – audits/questioning the need for central lines became a daily piece of interdisciplinary care rounds, as did central line dressing checks

Plan

- Algorithm created to guide staff to appropriate central line usage (Figure 4).
- Staff collaborated with Radiology and the ED to ensure all patients received same message regarding access/use of central lines.
- Nursing partnered with Lab: peripheral blood draws = norm, limiting use of central lines for blood draws. Two vein viewers purchased to aid peripheral • IV starts.
- Questioning central lines: Is the reason for line appropriate? Can the line be removed?
- Infection prevention rounded daily to reinforce practices and answer questions.
- Staff scripted cares to CHG treatment rather than CHG bath to emphasize importance.
- Education given to patients regarding the importance of CHG treatments, reinforced by Hospital Medicine Physicians during rounding
- Staff required to attend mandatory annual skills day. Stations offered a variety of topics, including central line care. Staff educated on proper technique, educational checklists, perform a return demonstration and instructed on policy and procedures. Figure 2



#### Aims

Reduce central line infections and device utilization rates.

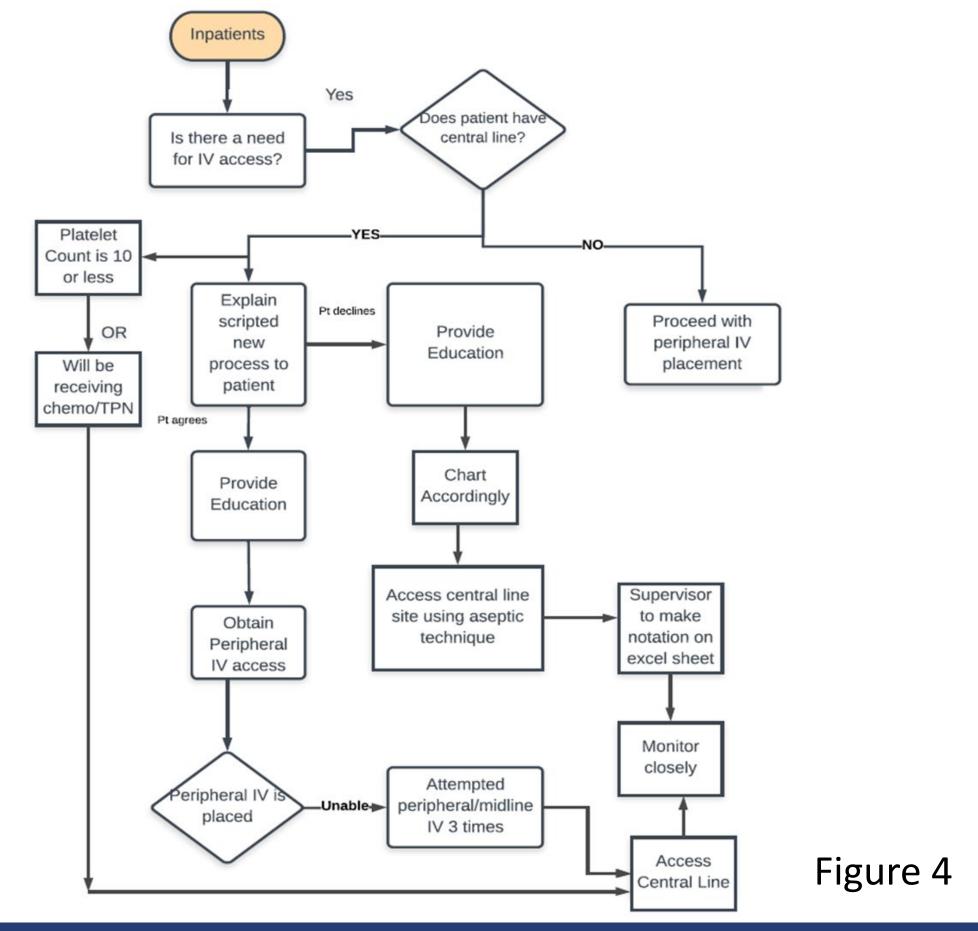
# Measure

Measures included: Audit Findings (completed percentages of individual components), Standardized Utilization Ratio (SUR), Standardized Infection Ratio (SIR), Days since infection

#### Results

- As of July 2021, Lakeside is over 900 days CLABSI free, and over 1500 days with only 1 CLABSI. (Figure 2)
- Annual mandatory skills days
- Daily uniformed audits performed on Central Lines hospital-wide, with daily questioning of line necessity.

Figure 3 100% administrative support. Fiscal Year (FY) SUR **FY16 FY17 (Project Implementation)** 0.38 FY19 **FY20** 0.65 FY21 (Year of COVID) 0.66



## **Next Steps**

- Increase staff competency/education on Central Lines to twice yearly
- Continued education for patients and expand practice of judicious central line usage to other facilities
- Continue empowerment of individual departments to own/manage central line usage

#### Team

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- Mariah Gesink MPH- Infection Preventionist
- Patricia Murock-Langan, MD- Chief Medical Officer
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