Central Line Dressing Team

Erin Pearson, BSN, RN; Jamie Hall, MSN, RN, CIC; Georgia Perry, MSN, RN, CNML
ECU Health Medical Center

BACKGROUND
Before the central line dressing (CVL) team implementation, overall CLABSIIs were 11 from October 2022 to May 2023. Performance Improvement (PI), Infection Prevention (IP), and the 2 North Medicine and Progressive nurse manager conducted the CVL team pilot from June 2023 through July 2023 and October 2023 through November 2023.

PROJECT AIM
To reduce central-line associated bloodstream infection (CLABSI) and encourage consistency in dressing and cap change compliance on 2 North Medicine and Progressive.

PROJECT DESIGN/STRATEGY
For PDSA Cycle 1, the 2 North Medicine and Progressive nurse manager scheduled a designated nurse for the CVL team every Thursday for 8 weeks to perform CVL and cap changes along with assessing peripheral intravascular catheter dressings and removing or changing if needed. The nurse would have assistance from charge nurses and PI and IP team if needed. PI and IP would collect feedback and the overall time it took to complete weekly. For PDSA Cycle 2, the 2 North Medicine and Progressive nurse manager scheduled 1 team member every Thursday for 8 weeks with the assistance of the Certified Nursing Specialist to perform CVL and cap changes along with assessing peripheral intravascular catheter dressings and removing or changing if needed.

CHANGES MADE (PDSA CYCLES)

PDSA Cycle 1
PLAN:
• Dressing checkoff competency for team members on CVL Team
• Team members designated to change every CVL dressing every Thursday
• Change caps on CVLS (excluding dialysis patients)
• Assess IV dressings for necessity and integrity
• Time frame 8 weeks

DO:
• Zero CLABSI
• PICC securement device was difficult for one team member to remove and change
• Head coverings missing from some of the dialysis dressing change kits
• Need convenience was missing in some from some of the CVL dressing kits
• 2 days had more patients than usual

STUDY:
• Approximately 3 hours on average to complete the CVL team on Thursday for 2 North Medicine and Progressive
• Average number of patients was 8
• Average number of CVLS was 9
• 2 days had 10 and 12 patients
• The number of CVLS ranged from 6 to 12 times on Thursday

ACT:
• No CLABSI's from June 2023-July 2023
• Improved maintenance care of CVL dressings
• Plan to present to nursing leadership for PDSA cycle 2 in November 2023

PDSA Cycle 2
PLAN:
• Meet with 2 North nursing administration and nurse manager
• Leverage Certified Nursing Specialist in helping with CVL care
• Identify 3-4 team members that rotate once monthly for CVL Team for 3 months
• Proposed timeframe 8 weeks, to start on October 19, 2023

DO:
• Zero CLABSI
• Difficulty staff

STUDY:
• Unable to maintain staffing due to capacity and internal disaster
• Cycle ended at 4 weeks

ACT:
• No CLABSI's in October or November 2023 during the 4 weeks of the CVL team
• Discuss with leadership a proposal for CVL team in hospital and different options

RESULTS/OUTCOMES

The pilot demonstrated that it took approximately 3 hours for the team to complete dressing and cap changes. PDSA Cycle 2 was intended for 8 weeks; however, it ended at 4 weeks due to staffing concerns. During PDSA Cycles 1 and 2, there were no CLABSIIs. It was determined that a CVL team would assist in the continued CLABSI reduction and could ensure compliance with CLABSI prevention bundles.

LESSONS LEARNED
Staffing was a barrier. During PDSA Cycle 2, we were at red capacity frequently with some increased capacity reaching internal disaster requiring staffing to be pulled into areas of need. PICC dressing changes were difficult due to the difficult manipulation of the securement device when removing and replacing and team members on the CVL team preferred to have another team member with them to assist during these changes.

NEXT STEPS
The CVL team proved to be successful, ensuring Zero CLABSIIs during the PDSA Cycles 1 and 2. It ensured consistency in the performance of the CLABSI prevention maintenance bundle. A CVL team proposal is to be presented to leadership with different options of how a CVL team could be developed to prevent CLABSIIs in other units. As of right now, the CVL team is a unit-specific project that can be implemented in instances where units have opportunities with CLABSIIs as an offering in the For the Love of the Line project work.

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Jamie Hall, MSN, RN, CIC
Infection Control and Prevention
ECU Health Medical Center
Greenville, North Carolina 27834
252.847.5448
jamie.hall@ecuhealth.org