

*Sustaining Excellence—Making Progress*

# Central Line Insertion Practices (CLIP) Review June and July 2013

Delmarva Foundation For Medical Care  
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*subsidiaries of Quality Health Strategies*

# Objectives

- Explain purpose of the Central Line Insertion Practice review
- Review the process Delmarva Foundation will use to assist hospitals with the technical component of the review
- Identify data elements available to hospitals at the conclusion of the review
- Discuss how you can use NHSN to improve patient safety



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# What have we learned about bundles?

- In 250 (NHSN) hospitals, mean CLABSI rate was 2.1/1000 central line days; 49% reported having a written CL Bundle policy.
- *Of those that monitored compliance*, only 38% reported very high compliance with the CL Bundle.
- Only when an ICU had a policy, monitored compliance, *and* had  $\geq 95\%$  compliance did CLABSI rates decrease.
- Complying with any one of three CL Bundle elements resulted in decreased CLABSI rates by an estimated 38%.

**Hospitals must target *improving bundle implementation and compliance* as opposed to simply instituting policies.**

Source: Furuya EY, Dick A, Perencevich EN, Pogorzelska M, Goldmann D, et al. (2011) *Central Line Bundle Implementation in US Intensive Care Units and Impact on Bloodstream Infections*. PLoS ONE 6(1): e15452. doi:10.1371/journal.pone.0015452



# *Reflection*

- Those who expect moments of change to be comfortable and free of conflict have not learned their history.....Joan Wallach Scott



# Purpose

- Participation in NHSN CLIP surveillance enables participating facilities and CDC to:
  - Monitor central line insertion practices in individual patient care units and facilities and to provide aggregate adherence data for all participating facilities.
  - Facilitate quality improvement by identifying specific gaps in adherence to recommended prevention practices, thereby helping to target intervention strategies for reducing CLABSI rates.



# Current Processes for CLIP Adherence

- Delmarva Foundation conducted a baseline CLIP survey in March.
- Variance among the hospitals was noted for observation of insertion practices.
- Due to the wide variance in observation of line insertions, we request hospitals perform a two month review of Central Line Insertion Practices using the correct application of the NHSN definitions.



# Why is CLIP important to CLABSI?

- Facilities may use information from analysis of CLIP to identify associations between insertion practices and outcomes (i.e., CLABSI)





# Benefits of Reporting CLIP

- Hospitals will have the
  - Ability to compare insertion practices among disciplines and/or units
  - Opportunity to facilitate quality improvement by identifying gaps in adherence to recommended prevention practices
  - Link gaps in recommended practice with clinical outcomes
  - The opportunity to compare your hospital CLIP practices with other hospitals



## Central Line Insertion Practices (CLIP)

You can look at the data in different ways.

*National Healthcare Safety Network*

*Line Listing for All Central Line Insertion Practices Events*

*As of: January 17, 2008 at 7:11 AM*

*Date Range: ALLCLIP\_EVENTS*

| Patient ID | Location | Insertion Date | Insertion Site | CL Cath Type | Barrier Used: Gloves? | Barrier Used: Gown? | Barrier Used: Mask? | Hand Hygiene Performed? |
|------------|----------|----------------|----------------|--------------|-----------------------|---------------------|---------------------|-------------------------|
| 005-04     | SICU     | 2007-03-08     | SUBCLAVIAN     | TUNN         | Y- Yes                | Y- Yes              | Y- Yes              | Y- Yes                  |
| 122-500    | 72ORTHO  | 2007-05-14     | FEMORAL        | NONTUNN      | N- No                 | Y- Yes              | Y- Yes              | Y- Yes                  |
| 5484646    | 5G       | 2007-11-15     | SUBCLAVIAN     | NONTUNN      | Y- Yes                | Y- Yes              | Y- Yes              | Y- Yes                  |
| 52432154   | 5G       | 2007-11-15     | JUGULAR        | NONTUNN      | Y- Yes                | Y- Yes              | Y- Yes              | Y- Yes                  |
| 00-00-000  | 72ORTHO  | 2007-08-29     | JUGULAR        | NONTUNN      | Y- Yes                | N- No               | Y- Yes              | Y- Yes                  |
| 58-74-11   | ED       | 2007-07-01     | FEMORAL        | NONTUNN      | Y- Yes                | N- No               | N- No               | Y- Yes                  |
| 16-338-08  | ED       | 2007-07-02     | JUGULAR        | NONTUNN      | Y- Yes                | N- No               | N- No               | Y- Yes                  |
| 16-333-0   | 5G       | 2007-03-12     | SUBCLAVIAN     | NONTUNN      | Y- Yes                | Y- Yes              | Y- Yes              | Y- Yes                  |
| 00-14-228  | 5G       | 2007-03-21     | SUBCLAVIAN     | NONTUNN      | Y- Yes                | Y- Yes              | N- No               | Y- Yes                  |
| 00-123-45  | 61EAST   | 2007-09-10     | JUGULAR        | NONTUNN      | Y- Yes                | Y- Yes              | Y- Yes              | Y- Yes                  |
| 00-01-235  | 61EAST   | 2007-09-16     | SUBCLAVIAN     | NONTUNN      | Y- Yes                | Y- Yes              | Y- Yes              | Y- Yes                  |
| 26-23-55   | 61EAST   | 2007-09-21     | JUGULAR        | NONTUNN      | Y- Yes                | Y- Yes              | Y- Yes              | Y- Yes                  |
| 20-00-200  | 61EAST   | 2007-09-12     | PICC           | PICC         | Y- Yes                | Y- Yes              | Y- Yes              | Y- Yes                  |
| 95-88-88   | 61EAST   | 2007-09-04     | PICC           | PICC         | Y- Yes                | Y- Yes              | Y- Yes              | Y- Yes                  |
| 11-444-7   | 61EAST   | 2007-09-06     | JUGULAR        | NONTUNN      | Y- Yes                | Y- Yes              | Y- Yes              | Y- Yes                  |
| 14-14-774  | BMT      | 2007-04-04     | SUBCLAVIAN     | TUNN         | Y- Yes                | Y- Yes              | Y- Yes              | Y- Yes                  |
| 071-17-77  | BMT      | 2007-04-23     | SUBCLAVIAN     | NONTUNN      | Y- Yes                | N- No               | Y- Yes              | Y- Yes                  |
| 00-18-885  | BMT      | 2007-04-18     | JUGULAR        | NONTUNN      | Y- Yes                | Y- Yes              | Y- Yes              | Y- Yes                  |
| 11-12-889  | BMT      | 2007-04-09     | FEMORAL        | NONTUNN      | Y- Yes                | Y- Yes              | Y- Yes              | Y- Yes                  |
| 11-888-39  | BMT      | 2007-04-28     | JUGULAR        | NONTUNN      | Y- Yes                | Y- Yes              | Y- Yes              | Y- Yes                  |

## Central Line Insertion Practices (CLIP)

Adherence rate tables can be used to target specific processes by location.

| Location | Hand Hygiene Count | CLIP Count | Hand Hygiene Rate |
|----------|--------------------|------------|-------------------|
| 5G       | 4                  | 4          | 100.0             |

$$\text{Hand Hygiene Compliance Rate} = \frac{\# \text{ hand hygiene done}}{\# \text{ CLIPs done}} \times 100$$

| Location | Skin Prep Count | CLIP Count | Skin Prep Rate |
|----------|-----------------|------------|----------------|
| 5G       | 3               | 4          | 75.0           |

$$\text{Skin Prep Compliance Rate} = \frac{\# \text{ skin prep}}{\# \text{ CLIPs done}} \times 100$$

# Details of CLIP Audit

- All participating hospitals are asked to use the NHSN standardized process of CLIP data collection for the months of June and July.
- Hospitals will use and apply the NHSN definitions
- Enter your hospitals CLIP data into NHSN
- Add CLIP Locations to the Monthly Reporting Plan
- Confer rights to Delmarva Foundation and the National Coordinating Center (NCC)



# Implementation of the CLIP review

- Communicate the CLIP review with your unit managers and frontline staff in participating units ASAP.
- Prior to the review, compare your form to the NHSN form.
- Attach form to every central line insertion kit
- Engage unit champions to collect CLIP forms
- Make sure there is a witness for every central line inserted
- Ensure there is a process for receipt of forms for every central line inserted





# On Site Technical Assistance

- Delmarva is prepared to offer technical assistance to your hospital to enter CLIP data into NHSN
  - Pick a day that will be less demanding for your staff
  - Gather all NHSN forms for CLIP elements in preparation for Delmarva staff visit
  - Access to your computer with digital certificate (you will sign Delmarva contact into your system)



# Information needed by Delmarva

- Notification if technical assistance is required
- Email notification to Carolyn Jackson Project Manager [jacksonc@dfmc.org](mailto:jacksonc@dfmc.org) of need for technical assistance with data submission



# Information needed for on site technical visit

- Prior to Delmarva's visit to your hospital, the following information is needed:
  - Number of forms for data entry
  - Location of computer for use to enter forms
  - Contact information for on site assistance
  - Location to meet contact person





# Resources

- [http://www.cdc.gov/nhsn/PDFs/pscManual/5psc\\_C\\_LIPcurrent.pdf](http://www.cdc.gov/nhsn/PDFs/pscManual/5psc_C_LIPcurrent.pdf)
- CLIP Insertion Form
  - [http://www.cdc.gov/nhsn/forms/57.125\\_CLIP\\_B\\_LANK.pdf](http://www.cdc.gov/nhsn/forms/57.125_CLIP_B_LANK.pdf)



# Questions?



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