Central Line Insertion Practices (CLIP) Training Course
Target Audience

This training session is designed for those who will collect and analyze Central Line Insertion Practices (CLIP) data in the Patient Safety Component of NHSN. This may include:

- NHSN Facility Administrator
- Patient Safety Primary Contact
- Infection Prevention and Control Professional (ICP)
- Epidemiologist
- Professional Nursing Staff
- Clinical Medical Staff
- Trained support staff
Central Line Insertion Practices (CLIP)

Learning Objectives

- Describe the rationale for using the CLIP process tool in NHSN
- Review the structure of the Device-associated Module in NHSN
- Define the key terms and protocols used for collecting CLIP process data
- Identify the method used to collect and record CLIP data
- Discuss using CLIP data to improve patient safety
Learning Objectives

- Describe the rationale for using the CLIP process tool in NHSN
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Introduction

- 250,000 central line-associated bloodstream infections (CLABSI) occur in the United States each year
- Most bloodstream infections are associated with the presence of a central line or umbilical catheter in neonates at the time of, or before the onset of the infection
- Estimated mortality 12-15% for each CLABSI
- Cost to the healthcare system is approximately $25,000 for each episode
Central Line Insertion Practices (CLIP)

Introduction

Central line-associated bloodstream infections (CLABSIs) can be prevented through proper management of the central line.

CDC’s HICPAC Guideline for the Prevention of Intravascular Catheter-Related Infections recommends evidence-based central line insertion practices known to reduce the risk of CLABSI.
Recommendations from the Guideline include:

- Use of maximal sterile barriers during insertion
- Proper use of a skin antiseptic prior to insertion
- Avoiding the femoral insertion site whenever possible
- Avoiding guidewire exchange when a CLABSI is suspected

Reporting information about the above practices in NHSN will enable facilities and CDC to:

- Monitor central line insertion practices in individual patient care units and facilities to provide aggregate adherence data
- Link gaps in recommended practice with the clinical outcome (i.e., CLABSI data)
- Facilitate quality improvement by identifying specific gaps in adherence to recommended prevention practices, helping to target intervention strategies to reduce CLABSI rates
Learning Objectives

• Describe the rationale for using the CLIP process tool in NHSN
• Review the structure of the Device-associated Module in NHSN
• Define the key terms and protocols used for collecting CLIP process data
• Identify the method used to collect and record CLIP data
The Device-associated Module includes

- Central line-associated bloodstream infection (CLABSI)
- Catheter-associated urinary tract infection (CAUTI)
- Ventilator-associated pneumonia (VAP)
- Dialysis Event (DE)
- Central line insertion practices adherence (CLIP)
Learning Objectives

- Describe the rationale for using the CLIP process tool in NHSN
- Review the structure of the Device-associated Module in NHSN
- Define the key terms and protocols used for collecting CLIP process data
- Identify the method used to collect and record CLIP data
Key Terms

Because NHSN uses the information that you enter to produce aggregate rates that are used for comparison by hospitals all over the United States and in other countries, it is very important that the data you report is collected using exactly the same definition each time.

In collecting data for CLIP, the following term will be defined:

Central Line
Definition: Central Line

An intravascular catheter that terminates at or close to the heart or in one of the great vessels which is used for infusion, withdrawal of blood, or hemodynamic monitoring.

The following are considered great vessels for the purpose of reporting central line insertion practices:

- Aorta
- Pulmonary artery
- Superior vena cava
- Inferior vena cava
- Brachiocephalic veins
- Internal jugular veins
- Subclavian veins
- External iliac veins
- Common femoral veins
Central Line Insertion Practices (CLIP)

Also...

- An introducer is considered an intravascular catheter.
- In neonates, the umbilical vessel is considered a central line.
- Neither the location of the insertion site nor the type of device may be used to determine if a line qualifies as a central line.
- Pacemaker wires and other non-lumened devices inserted into central blood vessels or the heart are not considered central lines, because fluids are not infused, pushed, nor withdrawn through such devices.
NHSN Monthly Reporting Plan

- Informs CDC which Patient Safety modules are used in a given month
- Allows CDC to select the data that should be included into the aggregate for analysis
- Plan indicates the module used, if any, and the events and locations they monitored
Add CLIP Locations to the Monthly Reporting Plan

<table>
<thead>
<tr>
<th>Device-Associated Module</th>
<th>CLA</th>
<th>BSI</th>
<th>DI</th>
<th>VAP</th>
<th>CAUTI</th>
<th>CLIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>3N - 3 NORTH</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>BMT - SCA TEST</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>MSICU - MEDSURG ICU</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
</tr>
</tbody>
</table>

Mandatory fields marked with *

- **Facility ID**: Medical Center East (ID 10000)
- **Month**: January
- **Year**: 2008

No NHSN Patient Safety Modules Followed this Month

If you monitor CLIP in a location, it may be beneficial to also monitor CLABSI for the same location.
Central Line Insertion Practices (CLIP)

Surveillance will occur in any location where central lines are inserted

- May include:
  - Intensive care units (ICU)
  - Specialty care areas
    - Hematology/oncology wards
    - Bone marrow transplant units
    - Inpatient dialysis units
    - Long term acute care
    - Solid organ transplant units
  - Neonatal intensive care units (NICU)
  - Other inpatient care locations in the hospital
  - Emergency department, OR, interventional radiology, etc.
Central Line Insertion Practices (CLIP)

The Central Line Insertion Practices Adherence Monitoring form is used to collect data for each central line inserted in the selected location(s).

You may want to print a copy of the CLIP form from the NHSN website and follow along: http://www.cdc.gov/ncidod/dhqp/nhsn_PSforms.html
Let’s look at each section of the form. The top portion contains the patient demographic information.

Facility ID: 10000
Event#: 222

*Patient ID: 001001
Social Security#: 0 0 1 - 0 0 - 0 0 0 1

Secondary ID: ________________

Patient Name, Last: Doe
First: Jane
Middle: B

*Gender: ☒ F ☐ M

*Date of Birth: 02/20/1952 (mm/dd/yyyy)

Ethnicity (specify): ________________
Race (specify): white

There are three required fields (highlighted in yellow):
- Patient ID
- Gender
- Date of Birth
Central Line Insertion Practices (CLIP)

**Required:** Enter the location of the central line insertion procedure was done.

**Required:** Enter the date of the central line insertion.

---

*Event Type: CLIP

*Location: **MICU**

*Date of Insertion: **1/16/2008**

*Person recording insertion practice data: □ Inserter □ Observer

Central line inserter ID: ____________ Name, Last: __________________________ First: ____________

*Occupation of inserter:

□ Fellow □ IV Team □ Medical Student □ Other medical staff

□ Physician assistant □ Attending physician □ Intern/Resident □ Other student

□ Other (specify) __________________

*Reason for insertion:

□ New indication for central line □ Replace malfunctioning central line

□ Suspected central line-associated infection □ Other (specify) __________________
Central Line Insertion Practices (CLIP)

**Required:**
Select Inserter or Observer.

**Optional:** Enter the HCW ID of the person inserting the central line.

Optional: Enter the name of the person inserting the central line.
Central Line Insertion Practices (CLIP)

Next – What is the occupation of the person inserting the line?

**Required**: Indicate the occupational category of the inserter.

**Occupation of inserter:**
- Fellow
- Physician assistant
- Other (specify) ________________

**Reason for insertion:**
- New indication for central line
- Suspected central line-associated infection
- Replace malfunctioning central line
- Other (specify) ________________

**Why was the central line inserted?**

**Required**: Check the primary reason for the insertion.
Central Line Insertion Practices (CLIP)

Required: Check ‘Y’ if the inserter appropriately performed hand hygiene before inserting the central line.

Appropriate hand hygiene includes the use of alcohol-based hand rub or soap and water hand wash.
Central Line Insertion Practices (CLIP)

**Required:** Check each sterile barrier used during insertion.

Note: Large sterile drape means **full body** drape.
Central Line Insertion Practices (CLIP)

Required: Check the type of skin preparation that was used.

*Skin preparation (check all that apply):  
- ☐ Chlorhexidine gluconate
- ☑ Povidone iodine
- ☑ Alcohol

*Was skin preparation agent completely dry at time of first skin puncture?  
- ☐ Y  ☐ N

*Insertion site:  
- ☐ Femoral
- ☐ Jugular
- ☐ Lower extremity
- ☐ Scalp
- ☐ Subclavian
- ☐ Umbilical
- ☐ Upper extremity

Note: If more than one skin preparation agent was used, check each one used.
Required: Check ‘Y’ if the skin preparation agent was dry at the time of the skin puncture, otherwise check ‘N’.

*Skin preparation (check all that apply): □ Chlorhexidine gluconate □ Povidone iodine □ Alcohol

*Was skin preparation agent completely dry at time of first skin puncture? □ Y □ N

*Insertion site: □ Femoral □ Jugular □ Lower extremity □ Scalp □ Subclavian □ Umbilical □ Upper extremity
Required: Check the location of the central line insertion site.

*Skin preparation (check all that apply): □ Chlorhexidine gluconate □ Povidone iodine □ Alcohol

*Was skin preparation agent completely dry at time of first skin puncture? □ Y □ N

*Insertion site: □ Femoral □ Jugular □ Lower extremity □ Scalp □ Subclavian
□ Umbilical □ Upper extremity
<table>
<thead>
<tr>
<th>Optional: Check ‘Y’ if the catheter was an antimicrobial coated device, otherwise, check ‘N’.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antimicrobial coated catheter used:</td>
</tr>
<tr>
<td>*Skin preparation (check all that apply):</td>
</tr>
<tr>
<td>*Was skin preparation agent completely dry at time of first skin puncture?</td>
</tr>
<tr>
<td>*Insertion site:</td>
</tr>
<tr>
<td>Central line catheter type:</td>
</tr>
</tbody>
</table>
Central Line Insertion Practices (CLIP)

Required: Check the type of catheter that was inserted.

Required: Check the number of lumens in the catheter.

*Central line catheter type:

- [ ] Dialysis non-tunneled
- [ ] Dialysis tunneled
- [x] Non-tunneled (other than dialysis)
- [ ] Tunneled (other than dialysis)

*Number of lumens (circle one):

1 2 3 4

*Central line exchanged over guidewire:
**Central Line Insertion Practices (CLIP)**

**Required:** Was this central line exchanged over a guidewire?

<table>
<thead>
<tr>
<th>Number of lumens (circle one):</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>≥ 4</th>
</tr>
</thead>
</table>

*Central line exchanged over a guidewire:*

- [ ] Y
- [x] N

*Antiseptic ointment applied to site:*

- [x] Y
- [ ] N

**Required:** Did the inserter apply antiseptic ointment to the site?
Central Line Insertion Practices (CLIP)

How will this information about central line insertion practices improve patient care?
Using CLIP Data

In NHSN, there are several helpful ways you can use your CLIP data:

A line list can identify specific information about central line insertion practices.
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: All CLIP_EVENTS

<table>
<thead>
<tr>
<th>Patient ID</th>
<th>Location</th>
<th>Insertion Date</th>
<th>Insertion Site</th>
<th>CL Cath Type</th>
<th>Barrier Used: Gloves?</th>
<th>Barrier Used: Gown?</th>
<th>Barrier Used: Mask?</th>
<th>Hand Hygiene Performed?</th>
</tr>
</thead>
<tbody>
<tr>
<td>005-04</td>
<td>SICU</td>
<td>2007-03-06</td>
<td>SUBCLAVIAN</td>
<td>TUNN</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
</tr>
<tr>
<td>122-500</td>
<td>72ORTHO</td>
<td>2007-05-14</td>
<td>FEMORAL</td>
<td>NCNTUNN</td>
<td>N - No</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
</tr>
<tr>
<td>00-00-000</td>
<td>72ORTHO</td>
<td>2007-06-29</td>
<td>JUGULAR</td>
<td>NCNTUNN</td>
<td>Y - Yes</td>
<td>N - No</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
</tr>
<tr>
<td>58-74-11</td>
<td>ED</td>
<td>2007-07-01</td>
<td>FEMORAL</td>
<td>NCNTUNN</td>
<td>Y - Yes</td>
<td>N - No</td>
<td>N - No</td>
<td>Y - Yes</td>
</tr>
<tr>
<td>16-336-08</td>
<td>ED</td>
<td>2007-07-02</td>
<td>JUGULAR</td>
<td>NCNTUNN</td>
<td>Y - Yes</td>
<td>N - No</td>
<td>N - No</td>
<td>Y - Yes</td>
</tr>
<tr>
<td>16-333-0</td>
<td>5G</td>
<td>2007-03-12</td>
<td>SUBCLAVIAN</td>
<td>NCNTUNN</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
</tr>
<tr>
<td>00-14-228</td>
<td>5G</td>
<td>2007-03-21</td>
<td>SUBCLAVIAN</td>
<td>NCNTUNN</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
<td>N - No</td>
<td>Y - Yes</td>
</tr>
<tr>
<td>00-123-45</td>
<td>61EAST</td>
<td>2007-09-10</td>
<td>JUGULAR</td>
<td>NCNTUNN</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
</tr>
<tr>
<td>00-01-235</td>
<td>61EAST</td>
<td>2007-09-16</td>
<td>SUBCLAVIAN</td>
<td>NCNTUNN</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
</tr>
<tr>
<td>20-00-200</td>
<td>61EAST</td>
<td>2007-09-12</td>
<td>PICC</td>
<td>PICC</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
</tr>
<tr>
<td>85-83-96</td>
<td>61EAST</td>
<td>2007-09-04</td>
<td>PICC</td>
<td>PICC</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
</tr>
<tr>
<td>11-444-7</td>
<td>61EAST</td>
<td>2007-09-06</td>
<td>JUGULAR</td>
<td>NCNTUNN</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
</tr>
<tr>
<td>14-14-774</td>
<td>BMT</td>
<td>2007-04-04</td>
<td>SUBCLAVIAN</td>
<td>TUNN</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
</tr>
<tr>
<td>071-17-77</td>
<td>BMT</td>
<td>2007-04-23</td>
<td>SUBCLAVIAN</td>
<td>NCNTUNN</td>
<td>Y - Yes</td>
<td>N - No</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
</tr>
<tr>
<td>00-13-885</td>
<td>BMT</td>
<td>2007-04-16</td>
<td>JUGULAR</td>
<td>NCNTUNN</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
</tr>
<tr>
<td>11-12-869</td>
<td>BMT</td>
<td>2007-04-09</td>
<td>FEMORAL</td>
<td>NCNTUNN</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
<td>Y - Yes</td>
</tr>
</tbody>
</table>
A frequency table will give information about where central line insertions are monitored in the facility.

National Healthcare Safety Network

Frequency Table for All Central Line Insertion Practices Events
As of: January 17, 2008 at 7:37 AM
Date Range: All CLIP_EVENTS

<table>
<thead>
<tr>
<th>Location</th>
<th>Frequency</th>
<th>Percent</th>
<th>Cumulative Frequency</th>
<th>Cumulative Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>5G</td>
<td>4</td>
<td>20.00</td>
<td>4</td>
<td>20.00</td>
</tr>
<tr>
<td>61EAST</td>
<td>6</td>
<td>30.00</td>
<td>10</td>
<td>50.00</td>
</tr>
<tr>
<td>72ORTH0</td>
<td>2</td>
<td>10.00</td>
<td>12</td>
<td>60.00</td>
</tr>
<tr>
<td>BMT</td>
<td>5</td>
<td>25.00</td>
<td>17</td>
<td>85.00</td>
</tr>
<tr>
<td>ED</td>
<td>2</td>
<td>10.00</td>
<td>19</td>
<td>95.00</td>
</tr>
<tr>
<td>SICU</td>
<td>1</td>
<td>5.00</td>
<td>20</td>
<td>100.00</td>
</tr>
</tbody>
</table>
Adherence rate tables can be used to target specific processes by location.

<table>
<thead>
<tr>
<th>Location</th>
<th>Hand Hygiene Count</th>
<th>CLIP Count</th>
<th>Hand Hygiene Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>5G</td>
<td></td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Location</th>
<th>Skin Prep Count</th>
<th>CLIP Count</th>
<th>Skin Prep Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>5G</td>
<td>3</td>
<td>4</td>
<td>75.0</td>
</tr>
</tbody>
</table>

Skin Prep Compliance Rate = \( \frac{\# \text{ skin prep}}{\# \text{ CLIPs done}} \times 100 \)
National Healthcare Safety Network
Pie Chart for All Central Line Insertion Practices Events
As of: January 17, 2008 at 7:43 AM
Date Range: All CLIP_EVENTS
FREQUENCY of insertSite
N=20

- JUGULAR: 8, 40%
- FEMORAL: 3, 15%
- PICC: 2, 10%
- SUBCLAVIAN: 7, 35%
Look at CLIP and CLABSI data together.

<table>
<thead>
<tr>
<th>Patient ID</th>
<th>Event ID</th>
<th>Event Date</th>
<th>Specific Event</th>
<th>Location</th>
<th>Insertion Date</th>
<th>Insertion Site</th>
<th>Hand Hygiene Performed?</th>
</tr>
</thead>
<tbody>
<tr>
<td>00-166</td>
<td>10648</td>
<td>06/23/2007</td>
<td>LCBI</td>
<td>5G</td>
<td>2007-06-15</td>
<td>SUBCLAVIAN</td>
<td>Y-Yes</td>
</tr>
<tr>
<td>14-20-999</td>
<td>10649</td>
<td>08/19/2007</td>
<td>LCBI</td>
<td>5G</td>
<td>2007-08-10</td>
<td>FEMORAL</td>
<td>Y - Yes</td>
</tr>
<tr>
<td>20073-04</td>
<td>7725</td>
<td>03/14/2007</td>
<td>LCBI</td>
<td>5PEDCC</td>
<td>2007-03-12</td>
<td>PICC</td>
<td>Y - Yes</td>
</tr>
<tr>
<td>20074-1</td>
<td>7837</td>
<td>04/04/2007</td>
<td>LCBI</td>
<td>5PEDCC</td>
<td>2007-04-01</td>
<td>SUBCLAVIAN</td>
<td>Y - Yes</td>
</tr>
<tr>
<td>20-00-200</td>
<td>10637</td>
<td>09/16/2007</td>
<td>LCBI</td>
<td>61EAST</td>
<td>2007-08-30</td>
<td>SUBCLAVIAN</td>
<td>Y - Yes</td>
</tr>
<tr>
<td>58-74-11</td>
<td>8160</td>
<td>07/01/2007</td>
<td>LCBI</td>
<td>71ICU</td>
<td>2007-06-26</td>
<td>PICC</td>
<td>Y - Yes</td>
</tr>
<tr>
<td>00-00-000</td>
<td>9190</td>
<td>07/02/2007</td>
<td>LCBI</td>
<td>72ORTH0</td>
<td>2007-06-26</td>
<td>FEMORAL</td>
<td>Y - Yes</td>
</tr>
<tr>
<td>03-33-987</td>
<td>7388</td>
<td>01/15/2007</td>
<td>LCBI</td>
<td>BMT</td>
<td>2007-01-03</td>
<td>FEMORAL</td>
<td>Y - Yes</td>
</tr>
<tr>
<td>2007-21</td>
<td>7702</td>
<td>01/28/2007</td>
<td>LCBI</td>
<td>BMT</td>
<td>2006-12-20</td>
<td>PICC</td>
<td>Y - Yes</td>
</tr>
</tbody>
</table>
Using the Data to Protect Patients

### National Healthcare Safety Network

**Line Listing for All Central Line-Associated BSI Events**

*As of: January 18, 2008 at 7:09 AM*

**Date Range:** CLAB EVENTS admit Date 01/01/2007 to 12/31/2007

<table>
<thead>
<tr>
<th>Patient ID</th>
<th>Event ID</th>
<th>Event Date</th>
<th>Specific Event</th>
<th>Location</th>
<th>Insertion Date</th>
<th>Insertion Site</th>
<th>Hand Hygiene Performed?</th>
</tr>
</thead>
<tbody>
<tr>
<td>00-166</td>
<td>10648</td>
<td>06/23/2007</td>
<td>LCBI 5G</td>
<td>SUBCLAVIAN</td>
<td>2007-06-15</td>
<td>SUBCLAVIAN</td>
<td>Y-Yes</td>
</tr>
<tr>
<td>14-20-999</td>
<td>10649</td>
<td>08/19/2007</td>
<td>LCBI 5G</td>
<td>FEMORAL</td>
<td>2007-08-10</td>
<td>FEMORAL</td>
<td>Y-Yes</td>
</tr>
<tr>
<td>20073-04</td>
<td>7725</td>
<td>03/14/2007</td>
<td>LCBI 5PEDCC</td>
<td>PICC</td>
<td>2007-03-12</td>
<td>PICC</td>
<td>Y-Yes</td>
</tr>
<tr>
<td>20074-1</td>
<td>7837</td>
<td>04/04/2007</td>
<td>LCBI 5PEDCC</td>
<td>SUBCLAVIAN</td>
<td>2007-04-01</td>
<td>SUBCLAVIAN</td>
<td>Y-Yes</td>
</tr>
<tr>
<td>20-00-200</td>
<td>10637</td>
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The CLIP option in NHSN allows a facility to track those practices for central line insertion that are recommended in the CDC’s *Guidelines for the Prevention of Intravascular Catheter-related Infections.*

- The CLIP form is used to collect data according to the protocol and definitions.
- Use of the CLIP option can be an important part of a CLABSI prevention strategy.
If you have questions about NHSN or the CLIP option:

DHQP Help desk toll-free number: 800-893-0485
DHQP Help desk direct-dial number: 404-639-4080

NHSN email: NHSN@cdc.gov

NHSN Website:
http://www.cdc.gov/ncidod/dhq/p/nhsn_members.html