

**Central Line Insertion Practices (CLIP)**

- **Data source:** CDC’s National Healthcare Safety Network (NHSN), Device-Associated Module
- **Definition:** [http://www.cdc.gov/nhsn/PDFs/pscManual/5psc\\_CLIPcurrent.pdf](http://www.cdc.gov/nhsn/PDFs/pscManual/5psc_CLIPcurrent.pdf)
- **5-Year (2013) National Prevention Target:** 100% adherence with central line bundle
- **Metric:** Adherence percentage
- **Baseline period:** 2009
- **Baseline data:** CLIP data reported to NHSN during 2009
  - 344 facilities reporting; 829 locations reporting; 70% intensive care unit (ICU)
  - 16 states reporting in 2009, with 95% of data submitted from California
- **Baseline measurement:** 92% adherence

Overall CLIP Adherence and CLIP Adherence to Individual Components:

<b>Adherence</b>	<b>2009 N=73,471 insertions</b>	<b>2010 N=107,802 insertions</b>	<b>2011* N=71,462 insertions</b>
<b>CLIP Adherence Overall</b>	<b>92.2%</b>	<b>94.5%</b>	<b>95.7%</b>
<b>Hand Hygiene</b>	98.5%	98.7%	98.9%
<b>Skin Prep</b>	98.5%	98.7%	98.6%
<b>Prep Dry</b>	98.3%	98.5%	98.7%
<b>Maximum Barrier Precautions</b>	95.7%	97.6%	98.2%

**\*Through 9/1/2011**

Facility Reporting:

<b>Reporting by Location Type</b>	<b># Locations (%) 2009</b>	<b># Locations (%) 2010</b>	<b># Locations (%) 2011*</b>
Total # Locations	829 (100)	1309 (100)	1343 (100)
Intensive Care Unit (ICU)	580 (70.0)	715 (54.6)	717 (53.4)
Non-ICU Inpatient Unit	157 (18.9)	425 (32.5)	468 (34.8)
Operating Room (OR)	36 (4.3)	56 (4.3)	51 (3.8)
Emergency Room (ER)	22 (2.7)	49 (3.7)	47 (3.5)
Outpatient Locations	21 (2.5)	36 (2.8)	30 (2.2)
Long-Term Acute Care (LTAC)	13 (1.6)	28 (2.1)	30 (2.2)

**\*Through 9/1/2011**

Proportion of Insertions Performed by Inserters (Self-Assessment) vs. Third-Party Observers:

<b>Recorder Type</b>	<b># Insertions (%) 2009</b>	<b># Insertions (%) 2010</b>	<b># Insertions (%) 2011*</b>
inserter (Self-Assessment)	42,426 (57.8)	63,543 (59.0)	41,455 (58.0)
Observer (Third-Party)	31,037 (42.3)	44,247 (41.0)	30,004 (42.0)

**\*Through 9/1/2011**

NOTE: Updated values for 2009 reflect additional data submission since last report

## **Metric Definitions**

Adherence to the CLIP bundle within NHSN requires that all four of the following are true:

- Hand hygiene - Inserter performed hand cleansing with either soap and water or an alcohol-based hand rub product prior to central line insertion
- Appropriate skin preparation - Dependent on the patient’s age the following agent(s) was used to disinfect the insertion site:
  - For patients  $\geq$  2 months of age: Chlorhexidene gluconate (CHG)
  - For patients < 2 months of age: One or more of the following:
    - Povidone iodine
    - Alcohol
    - CHG
    - Other antiseptic documented by the recorder
- Skin preparation agent was allowed to dry before central line insertion
- Maximal sterile barriers - All five of the following were used during the insertion
  - Sterile gloves (worn by the inserter)
  - Sterile gown (worn by the inserter)
  - Cap (worn by inserter)
  - Mask (worn by inserter)
  - Large sterile drape (placed over patient)