

Clostridium difficile Infections

- **Data source:** CDC’s National Healthcare Safety Network (NHSN), Multidrug-Resistant Organism (MDRO) and *Clostridium difficile* Infection (CDI) Module
- **Definition:** http://www.cdc.gov/nhsn/PDFs/pscManual/12pscMDRO_CDADcurrent.pdf
- **5-Year (2013) National Prevention Target:** 30% reduction in facility-wide healthcare facility-onset *C. difficile* LabID event

- **Metric:** Standardized Infection Ratio (SIR)
 - The SIR compares the observed number of healthcare-associated infections (HAIs) in the U.S. during a reporting period with the baseline U.S. experience
 - Risk adjustment: This metric adjusts for a variety of predictors of *C. difficile* infection, including teaching type, facility bed size, facility prevalence rate, and *C. difficile* laboratory test type
 - SIR < 1.0 means fewer HAIs observed during the reporting period than predicted from baseline data; SIR > 1.0 means more HAIs observed than predicted

- **Metric Definitions:** Facility-wide *C. difficile* laboratory-identified (LabID) event specimens collected from patients while housed in any of the facility’s inpatient locations are eligible for inclusion in the metric. Healthcare facility-onset (HO) *C. difficile* LabID events are defined as unformed stool specimens collected > 3 days after admission to the facility (admission=day 1), testing positive for a toxin-producing *C. difficile* organism detected by culture or for *C. difficile* toxin A and/or B detected by a laboratory test that is FDA-approved for *C. difficile* infection detection, from a patient with no previous *C. difficile* stool specimen in the prior 14 days.

- **Baseline data (2010-2011):** *C. difficile* infection LabID event data reported at the facility-wide inpatient level (i.e., all inpatient locations) to NHSN during 2010-2011 from all acute care general hospitals
 - 846 facilities reporting from all inpatient locations facility-wide; 62,262,776 facility-wide patient days reported; 13,102,078 facility-wide admissions reported
 - 40 states reporting
 - 5 states had legislative mandates to report *C. difficile* LabID event facility-wide inpatient data to NHSN at some point during 2010-2011

- **2012 data:** *C. difficile* infection LabID event data reported at the facility-wide inpatient level to NHSN during first 6 months of 2012 from all acute care general hospitals
 - 1,050 facilities reporting from all inpatient locations facility-wide; 21,908,528 facility-wide patient days reported; 4,882,118 facility-wide admissions reported
 - 45 states reporting
 - 6 states had legislative mandates to report *C. difficile* LabID event facility-wide inpatient data to NHSN during 2012

Measure	Baseline (2010-2011)	1 st Half 2012*
National SIR	N/A	1.28 = 15,824 / 12,366.05 <i>C. difficile</i> LabID Events
National % Reduction	N/A	28% (increase)

* These data from the first half of 2012 are incomplete and therefore only preliminary at this time.