



HEALTHCARE
ASSOCIATED
INFECTIONS
PROGRESS

PUERTO RICO

ACUTE CARE HOSPITALS



Healthcare-associated infections (HAIs) are infections patients can get while receiving medical treatment in a healthcare facility. Working toward the elimination of HAIs is a CDC priority. The standardized infection ratio (SIR) is a summary statistic that can be used to track HAI prevention progress over time; lower SIRs are better. The infection data are reported to CDC's National Healthcare Safety Network (NHSN). HAI data for nearly all U.S. hospitals are published on the Hospital Compare website. This report is based on 2014 data, published in 2016.

CLABSIs

↓ 41% LOWER COMPARED TO NAT'L BASELINE*

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTIONS

When a tube is placed in a large vein and not put in correctly or kept clean, it can become a way for germs to enter the body and cause deadly infections in the blood.

- Puerto Rico hospitals reported no significant change in CLABSIs between 2013 and 2014.
- 20%** Among the 12 hospitals in Puerto Rico with enough data to calculate an SIR, 20% had an SIR significantly higher (worse) than 0.50, the value of the national SIR.

CAUTIs

↓ 48% LOWER COMPARED TO NAT'L BASELINE*

CATHETER-ASSOCIATED URINARY TRACT INFECTIONS

When a urinary catheter is not put in correctly, not kept clean, or left in a patient for too long, germs can travel through the catheter and infect the bladder and kidneys.

- Puerto Rico hospitals reported a significant decrease in CAUTIs between 2013 and 2014.
- 0%** Among the 17 hospitals in Puerto Rico with enough data to calculate an SIR, 0% had an SIR significantly higher (worse) than 1.00, the value of the national SIR.

MRSA Bacteremia

NOT ENOUGH DATA COMPARED TO NAT'L BASELINE

LABORATORY IDENTIFIED HOSPITAL-ONSET BLOODSTREAM INFECTIONS

Methicillin-resistant *Staphylococcus aureus* (MRSA) is bacteria usually spread by contaminated hands. In a healthcare setting, such as a hospital, MRSA can cause serious bloodstream infections.

- Not enough data to report how many hospitals had an SIR significantly higher (worse) than 0.87, the value of the national SIR.

SSIs

SURGICAL SITE INFECTIONS

When germs get into an area where surgery is or was performed, patients can get a **surgical site infection**. Sometimes these infections involve only the skin. Other SSIs can involve tissues under the skin, organs, or implanted material.

SSI: Abdominal Hysterectomy

- Puerto Rico hospitals did not report 2014 abdominal hysterectomy data to NHSN.

SSI: Colon Surgery

- Puerto Rico hospitals did not report 2014 colon surgery data to NHSN.

C. difficile Infections

NOT ENOUGH DATA COMPARED TO NAT'L BASELINE

LABORATORY IDENTIFIED HOSPITAL-ONSET C. DIFFICILE INFECTIONS

When a person takes antibiotics, good bacteria that protect against infection are destroyed for several months. During this time, patients can get sick from *Clostridium difficile* (*C. difficile*), bacteria that cause potentially deadly diarrhea, which can be spread in healthcare settings.

- Not enough data to report how many hospitals had an SIR significantly higher (worse) than 0.92, the value of the national SIR.

*Statistically significant





PUERTO RICO

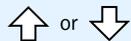
HEALTHCARE ASSOCIATED INFECTIONS PROGRESS



LEGEND



2014 state SIR is significantly lower (better) than comparison group in column header



Change in 2014 state SIR compared to group in column header is not statistically significant



2014 state SIR is significantly higher (worse) than comparison group in column header



2014 state SIR cannot be calculated

ACUTE CARE HOSPITALS

Healthcare-associated infection (HAI) data give healthcare facilities and public health agencies knowledge to design, implement, and evaluate HAI prevention efforts.

Learn how your hospital is performing: www.medicare.gov/hospitalcompare
For additional information:

- 2014 HAI Progress Report: www.cdc.gov/hai/progress-report/
- NHSN: www.cdc.gov/nhsn
- HAIs and prevention activities in Puerto Rico: www.salud.gov.pr/Pages/Home.aspx
- Puerto Rico validation efforts: www.cdc.gov/hai/pdfs/state-progress-landscape.pdf



| HAI TYPE | # OF PUERTO RICO HOSPITALS THAT REPORTED DATA TO CDC'S NHSN, 2014 ⁺ Total Hospitals in Puerto Rico: 57 | 2014 STATE SIR vs. 2013 State SIR | 2014 STATE SIR vs. 2014 Nat'l SIR | 2014 STATE SIR vs. Nat'l Baseline [‡] | 2014 STATE SIR | 2014 NAT'L SIR |
|--|--|-----------------------------------|-----------------------------------|--|----------------|----------------|
| CLABSI Nat'l Baseline: 2008 | 16 | ↓ 25% | ↑ 18% | ↓ 41% | 0.59 | 0.50 |
| CAUTI Nat'l Baseline: 2009 | 17 | ↓ 34% | ↓ 48% | ↓ 48% | 0.52 | 1.00 |
| SSI, Abdominal Hysterectomy Nat'l Baseline: 2008 | 0 | | | | | 0.83 |
| SSI, Colon Surgery Nat'l Baseline: 2008 | 0 | | | | | 0.98 |
| MRSA Bacteremia Nat'l Baseline: 2011 | 2 | | | | | 0.87 |
| C. difficile Infections Nat'l Baseline: 2011 | 4 | | | | | 0.92 |

⁺The number of hospitals that reported to NHSN and are included in the SIR calculation. This number may vary across HAI types; for example, some hospitals do not use central lines or urinary catheters, or do not perform colon or abdominal hysterectomy surgeries.

For additional data points, refer to the technical data tables.

[‡]Nat'l baseline time period varies by HAI type. See first column of this table for specifics.

WHAT IS THE STANDARDIZED INFECTION RATIO?

The **standardized infection ratio (SIR)** is a summary statistic that can be used to track HAI prevention progress over time; lower SIRs are better. The SIR for a facility or state is adjusted to account for factors that might cause infection rates to be higher or lower, such as hospital size, teaching status, the type of patients a hospital serves, and surgery and patient characteristics.

WHAT IS PUERTO RICO DOING TO PREVENT HEALTHCARE-ASSOCIATED INFECTIONS?

Prevention efforts to reduce specific HAIs:

- Central line-associated bloodstream infections
- Catheter-associated urinary tract infections
- Surgical site infections
- Multidrug-resistant infections (MRSA, other)
- Ventilator-associated events

- Hand hygiene
- Antibiotic stewardship
- Healthcare personnel influenza vaccination

For prevention effort details, see glossary.