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
**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.

- **Kansas hospitals reported no significant change in CLABSIs between 2013 and 2014.**

- **Among the 50 hospitals in Kansas with enough data to calculate an SIR, 7% had an SIR significantly higher (worse) than 0.50, the value of the national SIR.**

### CAUTIs
**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.

- **Kansas hospitals reported no significant change in CAUTIs between 2013 and 2014.**

- **Among the 56 hospitals in Kansas with enough data to calculate an SIR, 20% had an SIR significantly higher (worse) than 1.00, the value of the national SIR.**

### MRSA Bacteremia
**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.

- **Kansas hospitals reported no significant change in MRSA bacteremia between 2013 and 2014.**

- **Among the 43 hospitals in Kansas with enough data to calculate an SIR, 5% had an SIR significantly higher (worse) than 0.87, the value of the national SIR.**

### C. difficile Infections
**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.

- **Kansas hospitals reported no significant change in C. difficile infections between 2013 and 2014.**

- **Among the 76 hospitals in Kansas with enough data to calculate an SIR, 12% had an SIR significantly higher (worse) than 0.92, the value of the national SIR.**

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

### Standardized Infection Ratio (SIR)

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.

### Missouri's HAI Preventions

Prevention efforts to reduce specific HAIs:
- Central line-associated bloodstream infections
- Catheter-associated urinary tract infections
- Surgical site infections
- Multidrug-resistant infections (MRSA, *C. difficile*)
- Long-term care facilities
- Hand hygiene
- Healthcare personnel influenza vaccination

For prevention effort details, see glossary.

### Data Highlights

The table below presents data for different types of HAIs, showing the number of hospitals reporting data to NHSN, the state SIR compared to the previous year and national baseline, and the comparison to the national SIR.

#### CLABSI
- Valued at 14% in 2014 vs. 2013 State SIR
- 52% compared to National SIR
- 2014 SIR: 0.48

#### CAUTI
- 6% increase in 2014 vs. 2013 State SIR
- 12% increase compared to National SIR
- 2014 SIR: 1.12

#### SSI, Abdominal Hysterectomy
- 3% increase in 2014 vs. 2013 State SIR
- 14% compared to National SIR
- 2014 SIR: 0.72

#### SSI, Colon Surgery
- 23% increase in 2014 vs. 2013 State SIR
- 14% compared to National SIR
- 2014 SIR: 0.86

#### MRSA Bacteremia
- 6% decrease in 2014 vs. 2013 State SIR
- 14% decrease compared to National SIR
- 2014 SIR: 0.75

#### C. difficile Infections
- 4% increase in 2014 vs. 2013 State SIR
- 5% compared to National SIR
- 2014 SIR: 0.88

### Additional Resources

- [2014 HAI Progress Report](http://www.cdc.gov/hai/progress-report/)
- [NHSN](http://www.cdc.gov/nhsn)
- HAIs and prevention activities in Missouri: [health.mo.gov/data/hai/](http://health.mo.gov/data/hai/)

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*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.*

*National baseline time period varies by HAI type. See first column of this table for specifics.*

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

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*This report is based on 2014 data, published in 2016.*