

**STATE OF NEW HAMPSHIRE
HEALTHCARE-ASSOCIATED INFECTIONS
2014 HOSPITAL REPORT**

August 3, 2015

*New Hampshire Department of Health and Human Services
Division of Public Health Services*

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Note: DHMC refers to Dartmouth-Hitchcock Medical Center (Mary Hitchcock Memorial Hospital). NE Rehab refers to Northeast Rehabilitation Hospital and is presented as four facilities with specified locations. Crotched Mountain refers to Crotched Mountain Rehabilitation Center.

ABBREVIATIONS USED IN THIS DOCUMENT

ASA Score	American Society of Anesthesiologists (ASA) Classification of Physical Status
ASC	Ambulatory surgical center(s)
BSI	Bloodstream infection(s)
CABG	Coronary artery bypass graft procedure(s)
CAUTI	Catheter-associated urinary tract infection(s)
CBGB	NHSN operative code for coronary artery bypass graft procedure(s) with both a chest and donor site incision
CBGC	NHSN operative code for coronary artery bypass graft procedure(s) with chest incision site only
CCN	CMS Certification Number
CDC	U.S. Centers for Disease Control and Prevention
CLABSI	Central line-associated bloodstream infection(s)
CLIP	Central line insertion practices
CMS	Centers for Medicare and Medicaid Services
COLO	NHSN operative code for colon procedure(s)
Crotched Mountain	Crotched Mountain Rehabilitation Center
DHMC	Dartmouth-Hitchcock Medical Center (Mary Hitchcock Memorial Hospital)
DHHS	New Hampshire Department of Health and Human Services
HAI	Healthcare-associated infection(s)
HCP	Healthcare personnel
HICPAC	Healthcare Infection Control Practices Advisory Committee
HHS	U.S. Department of Health and Human Services
HYST	NHSN operative code for abdominal hysterectomy procedure(s)
ICU	Intensive care unit(s)
KPRO	NHSN operative code for knee arthroplasty procedure(s)
NE Rehab	Northeast Rehabilitation Hospital
NH	New Hampshire
NHHCQAC	New Hampshire Healthcare Quality Assurance Commission
NHSN	National Healthcare Safety Network
RSA	Revised Statutes Annotated
SCIP	Surgical Care Improvement Project
SIR	Standardized infection ratio(s)
SSI	Surgical site infection(s)
TAW	Healthcare-Associated Infections Technical Advisory Workgroup
VAP	Ventilator-associated pneumonia(s)

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EXECUTIVE SUMMARY

A healthcare-associated infection (HAI) is an infection that a patient acquires during the course of receiving treatment for another condition within a healthcare setting. An estimated 722,000 HAI and 75,000 associated deaths occurred in United States (U.S.) acute care hospitals in 2011.ⁱ During the 2006 legislative season, the New Hampshire (NH) Legislature passed a bill creating NH Revised Statutes Annotated (RSA) 151:32-35, which requires hospitals to identify, track, and report selected HAI to the NH Department of Health and Human Services (DHHS). All 26 of NH's acute care hospitals began reporting data to DHHS on two infections and three process measures in January 2009, and five specialty hospitals reported influenza vaccination coverage. This report represents the sixth summary of HAI-related data reported by hospitals in NH.

Healthcare-Associated Infections in New Hampshire Hospitals

There were fewer infections than predicted in NH based on national data. A total of 219 HAI were reported, representing 124 surgical site infections (SSI), 27 central line-associated bloodstream infections (CLABSI), and 68 catheter-associated urinary tract infections (CAUTI). The observed number of HAI in NH hospitals was 15% fewer than predicted based on national data. There were 39% fewer CLABSI, 26% more CAUTI, and 22% fewer SSI than predicted. Twenty-two hospitals had sufficiently robust data¹ to present hospital-specific data for overall HAI. Of these, four hospitals had an overall number of infections that was lower than predicted based on national data and two hospitals had an overall number of infections that was higher than predicted based on national data. The remaining 16 all observed a similar number of infections as predicted based on national data. The total number of infections occurring increased in 2014 in comparison to 2013; however, this difference was not statistically significant.

Central Line-Associated Bloodstream Infections

Twenty-four hospitals² with intensive care units (ICU) reported CLABSI data from their ICU. Data were robust enough for hospitals to present data for 20 individual ICU in this report. Nineteen ICU experienced similar rates of CLABSI in comparison to national rates, while one hospital ICU experienced a higher rate of CLABSI compared with national data. The total number of CLABSI reported increased in 2014 compared to 2013; however, this difference was not statistically significant.

Central Line Insertion Practices

The hospitals² with ICU reported information on central line insertion practices (CLIP) for central lines inserted in their ICU. Statewide adherence to the four infection prevention practices during central line insertions was 98.3%. Compared with attending physicians, registered nurses more frequently adhered to the four infection prevention practices during central line insertions (99.9% versus 95.8%). Data were sufficiently robust for 12 hospitals to

¹ Data are not shown for facilities with less than one predicted infection, fewer than 50 central lines or catheter days, and fewer than 20 central line insertions performed.

² Of the 34 hospitals licensed in 2014, only 24 hospitals had ICU in which to monitor CAUTI, CLABSI, and CLIP.

present hospital-specific data in this report. Eleven hospitals reported CLIP adherence percentages that were similar to the State percentage, and one hospital reported an adherence percentage that was lower than the State percentage. In 2014, the statewide adherence percentage for CLIP decreased from 2013 (98.4%); however, this decrease was not statistically significant. Of the 12 hospitals for which availability of data allowed a comparison between the two years, 11 hospitals' CLIP adherence was similar in 2014 compared to 2013, and one hospital's CLIP adherence was lower than in 2013.

Catheter-Associated Urinary Tract Infections

Data were sufficiently robust enough for hospitals to present CAUTI data for 27 individual ICU in this report. Twenty-five ICU experienced similar rates of CAUTI in comparison with national rates, while two hospital ICU experienced a higher rate of CAUTI compared with national data. The total number of CAUTI reported increased in 2014 compared to 2013; however, this difference was not statistically significant.

Surgical Site Infections

Twenty-six³ acute care hospitals reported SSI data for four surgical procedures.

- **Coronary Artery Bypass Graft (CABG) Procedures:** Four acute care hospitals performed CABG, and data were sufficiently robust for all four hospitals to present hospital-specific data in this report. Three hospitals reported a similar number of CABG procedure-associated SSI compared with national data, and one hospital reported fewer SSI than predicted based on national data. Overall, there were fewer CABG SSI than predicted based on national data.
- **Colon (COLO) Procedures:** Twenty-five acute care hospitals performed the procedure, and data were sufficiently robust for 14 hospitals to present hospital-specific data in this report. Ten hospitals reported a similar number of colon procedure-associated SSI compared with national data, two hospitals reported fewer SSI than predicted based on national data, and two hospitals reported more SSI than predicted based on national data. Overall, there were a similar number of colon procedure-associated SSI as predicted based on national data.
- **Abdominal Hysterectomy (HYST) Procedures:** Twenty-four acute care hospitals performed the procedure, and data were sufficiently robust for eight hospitals to present hospital-specific data in this report. All eight hospitals reported a similar number of abdominal hysterectomy procedure-associated SSI compared with national data. Overall, there were a similar number of abdominal hysterectomy procedure-associated SSI as predicted based on national data.
- **Knee Arthroplasty (KPRO) Procedures:** Twenty-four acute care hospitals performed the procedure, and data were sufficiently robust for 10 hospitals to present hospital-specific data in this report. Eight hospitals reported a similar number of knee arthroplasty procedure-associated SSI compared with national data, and two hospitals reported fewer SSI than predicted based on national data. Overall, there was a similar number of knee arthroplasty-related SSI as predicted based on national data.

³ Of the 34 hospitals licensed in 2014, only 26 hospitals performed procedures in which to monitor SSI.

Surgical Antimicrobial Prophylaxis Administration

Surgical antimicrobial prophylaxis data is reported to the Centers for Medicare and Medicaid Services (CMS) through the Surgical Care Improvement Project (SCIP). In previous years, DHHS accessed these data and presented it in this report. At the time of this report's publication, 2014 data was unavailable and consequently is not included in this report.

Influenza Vaccination Coverage in Hospital Healthcare Personnel

All 34 acute care, psychiatric, and rehabilitation hospitals reported healthcare personnel (HCP) influenza vaccination percentages. Vaccination coverage by hospital ranged from 69.6% to 100%, and the hospital State percentage was 93.5%. Nine hospitals had vaccination percentages similar to the overall State vaccination percentage, 11 hospitals reported vaccination percentages that were significantly higher than the overall State vaccination percentage, and 14 hospitals reported vaccination percentages that were significantly lower than the overall State vaccination percentage. The statewide hospital HCP vaccination percentage increased significantly from the 2013-14 influenza season (93.0%) to the 2014-15 influenza season (93.5%). Specifically, seven hospitals increased HCP influenza vaccination coverage in 2014-15 compared to the 2013-14 influenza season, 19 hospitals had similar vaccination coverage, and seven hospitals decreased vaccination coverage.

Conclusion

This sixth report of hospital HAI data displays continuous progress toward the goal of eliminating HAI in NH. This report provides a picture of selected HAI data, which can be used by healthcare facilities in the state to identify areas for improvement and prevention as well as healthcare consumers to make informed healthcare decisions.

I. INTRODUCTION

A. Purpose

This report represents the sixth summary of healthcare-associated infection (HAI)-related data reported by hospitals in New Hampshire (NH) during calendar year 2014. This report can be used by healthcare facilities in the state to identify areas for improvement as well by healthcare consumers to make informed healthcare decisions.

B. Audience

The intended audience may include, but is not limited to: healthcare personnel (HCP), infection control and prevention staff, facility leadership and management, clinicians, and healthcare consumers.

C. How to Use this Document

This document includes aggregate data reported by all 34 acute care, critical access, and specialty hospitals in NH. This report also includes individual hospital reports on page 83. The document consists of six sections:

- I) Introduction
- II) Surveillance methods
- III) Statewide data
 - a. Overall NH data
 - b. Central line-associated bloodstream infections (CLABSI)
 - c. Central line insertion practices (CLIP)
 - d. Catheter-associated urinary tract infections (CAUTI)
 - e. Surgical site infections (SSI) following coronary artery bypass graft (CABG), colon (COLO), abdominal hysterectomy (HYST), and knee arthroplasty (KPRO) procedures
 - f. Post-discharge surveillance methods
 - g. Surgical antimicrobial prophylaxis administration
 - h. Percentage of HCP receiving influenza vaccination
- IV) Conclusions
- V) Individual hospital reports
- VI) Appendices
 - a. Technical notes
 - b. Influenza vaccination survey questions, 2014-15 season
 - c. Understanding the relationship between HAI rates and standardized infection ratio (SIR) comparison metrics
 - d. Preventing HAI
 - e. Map of NH hospitals

Please contact the NH Department of Health and Human Services (DHHS) Healthcare-Associated Infections Program (603-271-4496) with any questions about the content or how to use this document.

D. Background on Healthcare-Associated Infections

An HAI is an infection that a patient acquires during the course of receiving treatment for another condition within a healthcare setting. An estimated 722,000 HAI and 75,000 associated deaths occurred in United States (U.S.) acute care hospitals in 2011.ⁱⁱ This may represent a decreasing trend because previous studies depict higher numbers of HAI; 1.7 million infections and 99,000 deaths each year.ⁱⁱⁱ By these estimates, HAI are among the top 10 leading causes of death in the U.S., and 5–10% of all hospital admissions are complicated by HAI.^{iv} The economic burden of HAI is substantial and increasing. The total cost of HAI has been estimated at \$33 billion per year in U.S. hospitals.^v The most common HAI are pneumonia, gastrointestinal illness, primary bloodstream infections (BSI), and SSI.ⁱⁱ

E. New Hampshire Healthcare-Associated Infections Program

The NH DHHS has been developing and improving a HAI surveillance program since 2007. During the 2006 legislative season, the NH Legislature passed a bill creating NH Revised Statutes Annotated (RSA) 151:32-35, which requires hospitals to identify, track, and report HAI to DHHS. RSA 151:33 specifically requires reporting of CLABSI, SSI, ventilator-associated pneumonia (VAP), CLIP, surgical antimicrobial prophylaxis, and influenza vaccination coverage. The intent of the bill is to provide HAI data by hospital in a publicly accessible forum. Because the bill did not include funding to carry out these activities, mandatory reporting was not fully implemented until January 2009.

DHHS, with consideration of the law, required that eligible hospitals initially report the following measures:

- CLABSI in adult intensive care units (ICU) (via NHSN). Only those hospitals with ICU enroll and report data to NHSN.
- CLIP in all ICU (via NHSN). Only those hospitals with ICU enroll and report data to NHSN.
- SSI following CABG, colon, and knee arthroplasty procedures (via NHSN). Only those hospitals that perform the selected procedures enroll and report data to NHSN.
- Surgical antimicrobial prophylaxis (via Centers for Medicare and Medicaid Services [CMS]). Only those hospitals that administer antimicrobial prophylaxis report these data.
- Influenza vaccination in patients and HCP (via DHHS web-based survey). All hospitals (including rehabilitation and psychiatric) report influenza vaccination in HCP.

All 26 acute care hospitals successfully enrolled in NHSN and began reporting the required data in January 2009.

During the 2010 legislative season, the NH Legislature passed House Bill 1548 (2010) amending RSA 151:32-35 to require all licensed ambulatory surgery centers (ASCs) to report HAI to DHHS. HAI data reported by ASC is published in a separate report and posted to the HAI Program publications website: <http://www.dhhs.nh.gov/dphs/cdcs/hai/publications.htm>.

The administrative rules related to HAI reporting were revised in 2011 to include additional reporting measures for eligible hospitals. Starting January 2012, hospitals were also required to report:

- CLABSI in all ICU (via NHSN)
- CLIP in all ICU (via NHSN)
- Catheter-associated urinary tract infections (CAUTI) in all pediatric and adult ICU (via NHSN)
- SSI following abdominal hysterectomy (HYST) procedures (via NHSN)

F. State of New Hampshire Healthcare-Associated Infections Plan

In response to increasing concerns about the public health impact of HAI, the U.S. Department of Health and Human Services (HHS) developed its “Action Plan to Prevent Healthcare-Associated Infections” (HHS Action Plan) in 2009. The HHS Action Plan includes recommendations for surveillance, research, communication, and metrics for measuring progress toward national goals. In a concurrent development, the 2009 Omnibus Appropriations Act required states receiving Preventive Health and Health Services Block Grant funds to certify that they would submit a plan to reduce HAI to the Secretary of HHS not later than January 1, 2010. In order to assist states in responding within the short timeline required by that language and to facilitate coordination with national HAI prevention efforts, the Centers for Disease Control and Prevention (CDC) provided a template to assist state planning efforts in the prevention of HAI. The template targeted four areas: 1) Development or Enhancement of HAI Program Infrastructure; 2) Surveillance, Detection, Reporting, and Response; 3) Prevention; and 4) Evaluation, Oversight, and Communication. In 2009, DHHS drafted its State HAI Plan and submitted it to HHS. Updates to the plan are in progress and will be posted to the HAI Program website: <http://www.dhhs.nh.gov/dphs/cdcs/hai/index.htm>.

G. Overview of Healthcare-Associated Infections Prevention Efforts

DHHS participates in statewide prevention activities through the NH Health Care Quality Assurance Commission (NHHQCAC), on which the Division of Public Health Services director serves. DHHS is active in various projects coordinated by the NHHQCAC and the CMS Quality Innovation Network-Quality Improvement Organization (QIN-QIO). Major statewide initiatives through these organizations have included hand hygiene campaigns, patient safety checklists, and programs to prevent BSI, antimicrobial resistance, and *Clostridium difficile*. Additionally, the Foundation for Healthy Communities received a large grant through the Partnership for Patients program to conduct additional large, statewide prevention initiatives. For additional information on these various efforts, the following websites may be helpful:

New Hampshire Health Care Quality Assurance Commission:

<http://www.healthynh.com/fhc-initiatives/nh-health-care-quality-assurance-commission.html>

CMS QIN-QIO for Connecticut, Maine, Massachusetts, NH, Rhode Island, and Vermont:

www.HealthCareForNewEngland.org

Foundation for Healthy Communities Partnership for Patients:

<http://www.healthynh.com/partnership-for-patients.html>

In addition to supporting and engaging in prevention activities with patient safety groups, the HAI Program provides educational opportunities to healthcare facilities across the state in order to share best practices for infection prevention and ultimately reduce HAI.

H. Healthcare-Associated Infections Technical Advisory Workgroup

In the spring of 2009, DHHS formed an HAI Technical Advisory Workgroup (TAW). The purpose of the TAW is to provide scientific and infection prevention expertise to the HAI Program. The TAW meets quarterly, and as a forum for stakeholder participation in decision-making around the HAI Program. The TAW is currently a 21-member group that includes representation from stakeholders across NH and includes representatives from various sizes and types of hospitals and ASC, infection control associations, a consumer advocate, the NH Hospital Association, the New Hampshire Healthcare Quality Assurance Commission, the New Hampshire Ambulatory Surgery Association, and the Northeast Health Care Quality Foundation (see page 17 for a list of TAW members during the 2014 reporting year).

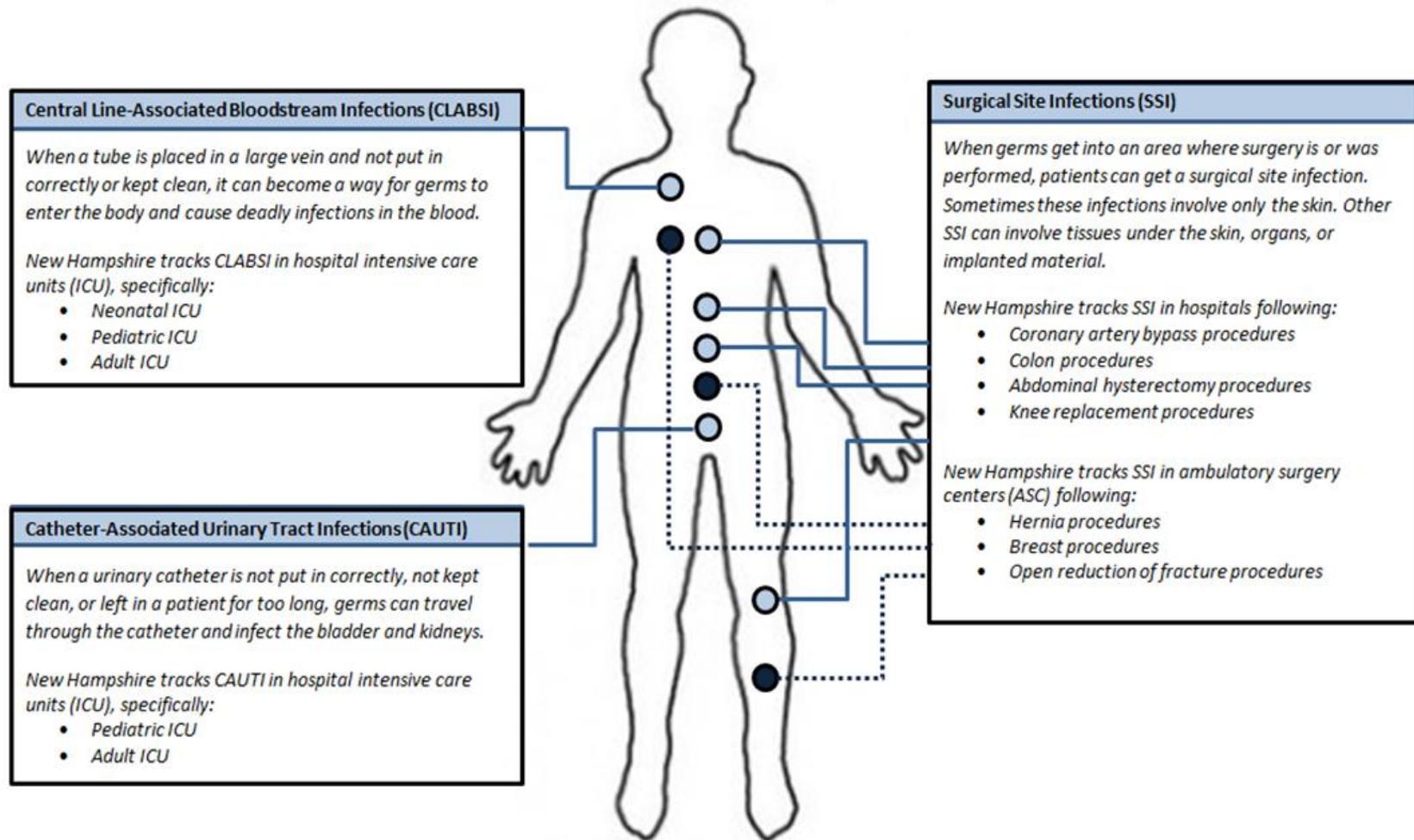
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*Served on TAW for part of 2014

DHHS: New Hampshire Department of Health and Human Services

Figure 1. Types of healthcare-associated infections reported to NH Department of Health and Human Services



II. SURVEILLANCE METHODS

A. 2014 Healthcare-Associated Infections Reporting Requirements for New Hampshire Hospitals

Reporting requirements are governed by RSA 151:33 with authority given to DHHS to develop administrative rules to provide specific reporting instructions and methodology. Administrative rules, “He-P 309 Healthcare Associated Infections,” were drafted in 2010 with stakeholder input and approved January 14, 2011 by the Joint Legislative Committee on Administrative Rules. Reporting requirements for 2009-2014 included the following required measures for hospitals:

- CLABSI in adult ICU
- CLIP in adult ICU
- SSI following CABG, colon, and knee arthroplasty procedures
- Surgical antimicrobial prophylaxis
- Influenza vaccination in patients and HCP

The rules were updated in 2012 to include the following required measures for hospitals:

- CLABSI in all ICU
- CLIP in all ICU
- CAUTI in all adult and ICU
- SSI following CABG, colon, abdominal hysterectomy, and knee arthroplasty procedures
- Surgical antimicrobial prophylaxis
- Influenza vaccination in patients and HCP

While all licensed hospitals including acute care and specialty hospitals are required to report the selected measures under RSA 151:33, specialty hospitals (rehabilitation and psychiatric hospitals) are not required to report CAUTI, CLABSI and CLIP, because they do not have ICU, nor SSI and surgical antimicrobial prophylaxis administration data, because they do not perform surgeries. The five rehabilitation and two psychiatric hospitals in NH are only required to report influenza vaccination coverage for patients and HCP.

B. Selection of Reporting Requirements

RSA 151:33 broadly requires reporting of all SSI and CLABSI; however, it is not feasible to perform surveillance for all of these infections using NHSN. In order to generate infection measures for hospitals and compare them with national data, infection reporting was limited to the capabilities of NHSN and measures were selected in accordance with national recommendations for HAI surveillance in the context of public reporting.

In 2005, the CDC released a report titled “Guidance on Public Reporting of Healthcare-Associated Infections: Recommendations of the Healthcare Infection Control Practices Advisory Committee (HICPAC).”^{vi} The group recommended selecting outcome measures for reporting

based on the frequency, severity, and preventability of the outcomes and the likelihood that they can be detected and reported accurately. Specifically, the group recommended monitoring the following outcome measures:

- CLABSI in ICU
- SSI following selected operations
- CAUTI and VAP were not recommended because of lower morbidity and mortality resulting in less prevention effectiveness relative to the burden of data collection and reporting (in the case of CAUTI), and difficulty in detecting infections accurately resulting in invalid and misleading comparisons of infection rates for consumers (in the case of VAP)

Additionally, the group recommended monitoring the following process measures:

- CLIP
- Surgical antimicrobial prophylaxis
- Influenza vaccination of patients and HCP

In 2008, the Healthcare-Associated Infections Working Group⁴ of the Joint Public Policy Committee released “Essentials of Public Reporting of Healthcare-Associated Infections: A Tool Kit.”^{vii} The working group agreed with the CDC/HICPAC document, “Guidance on Public Reporting of Healthcare-Associated Infections” (referenced above) and recommended exclusion of outcome measures related to VAP and CAUTI because the existing surveillance criteria are difficult to apply consistently, making case counts unreliable. The toolkit recommends monitoring the following outcome measures:

- CLABSI in ICU
- Surgical procedures that are performed with adequate frequency to permit meaningful comparisons among institutions. Specific reasonable options listed were: 1) CABG; 2) colon resection; 3) total hip arthroplasty; 4) total knee arthroplasty; 5) laminectomy; and 6) total abdominal hysterectomy

The only process measure the group recommended monitoring was HCP influenza vaccination coverage.

Within the context of RSA 151:33, DHHS reviewed the national guidelines and capabilities of NHSN in selecting infection and process measures. It is expected that these reporting requirements may change in the future as we learn from public reporting, as HAI epidemiology evolves, and as new surveillance methods and reporting technologies become available.

⁴ The Healthcare-Associated Infection Working Group of the Joint Public Policy Committee is a multi-organizational group represented by the Association for Professionals in Infection Control and Epidemiology, CDC, Council of State and Territorial Epidemiologists, and Society for Healthcare Epidemiology of America.

C. Accuracy of Reported Healthcare-Associated Infections Surveillance Data

DHHS conducted a validation study of 2009-2010 data to assess the degree of under- and over-reporting and to provide additional training to address any common or systematic errors in reporting processes. DHHS contracted with an independent, external agency to perform the validation study and HAI Program staff participated in activities including NHSN data review, medical record review, data analysis, corrections, and follow-up for deficiencies. Overall, validation of 2009-2010 data showed that there was approximately 33% under-reporting of CLABSI and SSI combined across all NH hospitals. This under-reporting was mostly due to misunderstandings of the NHSN definitions for HAI. In addition to under-reporting, the validation studies also found 12% of CLABSI and SSI were over reported and not classified accurately (i.e., reporting an infection that was not truly a CLABSI or SSI). The 2014 data presented in this report have not been validated and must be interpreted with the understanding that in general there are both under- and over reporting of HAI. However, the HAI Program is planning to validate data on a rolling basis starting in the fall of 2015.

Several processes are used to ensure that these 2014-15 data are as accurate as possible. First, DHHS selected NHSN for mandatory reporting, which requires the use of standardized infection definitions and reporting methods. Second, DHHS analyzed and reviewed all data reported for 2014 from each hospital. This review identified any obvious reporting errors or internal inconsistencies that suggested errors. Third, DHHS provided preliminary data reports to each hospital with the request to confirm accuracy. This reconciliation process was iterative until all hospitals made corrections and agreed to the reported data. Lastly, 2009-2010 data validation was performed, reducing systematic errors that may have occurred during the reporting process; this has likely resulted in a lasting improvement to data quality, even in years when validation does not take place.

Despite the above measures, there are several limitations to the reporting methods that may limit comparison of data across hospitals. Definitions for classifying an infection as healthcare-associated are standardized through the use of NHSN; however, methods to identify the infection in each hospital are not. For example, hospitals may use different methods to identify CLABSI (e.g., reviewing laboratory records, reviewing ICU records) or may have different approaches to diagnosing and managing suspect CLABSI in the ICU. For SSI, identifying patients who develop infections after discharge from the hospital can be difficult, and each hospital may use a different method of post-discharge surveillance (e.g., letters to surgeons, conducting chart reviews for surgical patients, calling surgeon offices). These different approaches vary in sensitivity. See page 57 for more details about how hospitals identify SSI.

D. National Healthcare Safety Network

NHSN is a voluntary, secure, internet-based surveillance system for healthcare facilities to monitor patient safety and infection prevention measures. Enrollment is open to all types of healthcare facilities in the U.S. DHHS selected NHSN because it is widely used across the entire U.S., it offers already developed and accepted surveillance definitions and methods, it provides national comparison data, and there is no cost to use or join the system.

More information about NHSN is available at: <http://www.cdc.gov/nhsn/index.html>.

E. Comparisons with National Data

All SSI comparisons with national data use 2006–2008 NHSN data published in the “National Healthcare Safety Network (NHSN) report: Data summary for 2006 through 2008, issued December 2009.”^{viii}

All device-associated infection (CLABSI and CAUTI) comparisons with national data use 2013 data published in the “National Healthcare Safety Network (NHSN) report: Data summary for 2013, Device-Associated Module” issued March 2015.^{ix}

These reports are available at: <http://www.cdc.gov/nhsn/dataStat.html>.

F. Central Line-Associated Bloodstream Infections Surveillance

A CLABSI is a laboratory-confirmed BSI that develops after insertion of a central line and is not secondary to an infection at another body site. A central line is an intravascular catheter that terminates at or close to the heart or in one of the great vessels and is used for infusion, withdrawal of blood, or hemodynamic monitoring. Hospitals are required to monitor and report CLABSI in adult ICU. This monitoring includes reporting the number of infections identified as well as the total number of central line days in the unit. These metrics are monitored following NHSN protocols and definitions, and reported in NHSN.

Central line days are the number of patients with one or more central lines of any type, which are counted at the same time each day and aggregated over the reporting period. For example, a patient with a central line in place for five days would be counted as five central line days.

Detailed descriptions of the NHSN CLABSI surveillance protocols are available at: http://www.cdc.gov/nhsn/PDFs/pscManual/4PSC_CLABScurrent.pdf.

Limitations for CLABSI surveillance:

- NHSN only allows for monitoring CLABSI in inpatient units. In NH in 2014, CLABSI were monitored in all ICU (including pediatric and neonatal ICU) and not in other inpatient locations.
- One hospital reclassified its ICU type halfway through 2014, making comparison over multiple years impossible.
- Validation of 2009-2010 data showed that there was approximately 43% under-reporting of CLABSI across all NH hospitals. This under-reporting was mostly due to misunderstandings about the NHSN definition for CLABSI. In addition to under-reporting, the validation studies also found 11% of over-reporting (i.e., reporting an infection that was not truly a CLABSI). The 2014 CLABSI data presented in this report have not been validated and must be interpreted with the understanding that in general there are both under- and overreporting of infections.

G. Central Line Insertion Practices Monitoring

CLIP monitoring assesses key infection prevention practices that occur during the insertion of a central line. A central line is any intravascular catheter used for infusion, blood withdrawal, or hemodynamic monitoring that terminates at or close to the heart or in one of the great vessels. In order to comply with all infection prevention practices during the insertion, the inserter must 1) perform hand hygiene prior to insertion; 2) use all five barriers (gloves, gown, cap, mask, and drape); 3) use an appropriate skin preparation agent; and 4) ensure skin is dry prior to insertion.

Hospitals monitor and report CLIP data through NHSN using all NHSN protocols and definitions. In 2014, hospitals were required to monitor all central line insertions that were placed in ICU (which includes pediatric, neonatal, and step down units). The NHSN CLIP protocols are available at: http://www.cdc.gov/nhsn/PDFs/pscManual/5psc_CLIPcurrent.pdf.

Occupational groups are compared with the overall State compliance percentage since there are no national data for comparison. Groups with a confidence interval that overlaps the State's confidence interval are considered to be similar to the State adherence percentage. Any occupation or hospital with a confidence interval that is higher than the State's confidence interval is considered to have a significantly higher percentage than the State adherence percentage. Groups with a confidence interval that is lower than the State's confidence interval are considered to have a significantly lower percentage than the State adherence percentage.

Limitations for central line insertion practices monitoring:

- In NH, CLIP was monitored in all ICU (including pediatric and neonatal ICUs) and not in other settings where central lines may be inserted (e.g., operating room, procedure rooms, emergency room, dialysis centers).
- The person recording the insertion practices may differ in each hospital. This person may be an observer or the person doing the insertion, which may impact quality of data on adherence reported.

H. Catheter-Associated Urinary Tract Infections Surveillance

A CAUTI is a urinary tract infection that develops after insertion of an indwelling urinary catheter and is not secondary to an infection at another body site. An indwelling urinary catheter is a drainage tube that is inserted into the urinary bladder through the urethra and left in place, and is connected to a drainage bag. They are sometimes called Foley catheters and are used for intermittent or continuous irrigation or urine drainage. Hospitals are required to monitor and report CAUTI in all ICU (excluding neonatal ICU and step down units). This monitoring includes reporting the number of infections identified as well as the total number of catheter days in the unit. These metrics are monitored following NHSN protocols and definitions and reported in NHSN.

Catheter days represent the number of patients with one or more indwelling urinary catheters of any type, counted at the same time each day and aggregated over the reporting period. For example, a patient with a catheter in place for five days would be counted as five catheter days;

one patient with a catheter for one day and another with a catheter for four days are also counted as five catheter days.

Detailed descriptions of the NHSN CAUTI surveillance protocols are available at:

<http://www.cdc.gov/nhsn/PDFs/pscManual/7pscCAUTIcurrent.pdf>.

Limitations for CAUTI surveillance:

- NHSN only allows for monitoring CAUTI in inpatient units. In NH in 2014, CAUTI were monitored in all ICU (excluding neonatal ICU) and not in other inpatient locations.
- The 2014 CAUTI data presented in this report have not been validated and must be interpreted with the understanding that in general there are both under- and over-reporting of infections.

I. Surgical Site Infections Surveillance

An SSI is an infection that develops at the site of a surgical procedure. There are different ways to classify an SSI, such as whether it is superficial, in deep tissue, or in the organ/space. Monitoring for an SSI may continue for as little as 30 days or as long as 90 days based on depth and procedure type (e.g., knee arthroplasty, CABG). In 2014, hospitals were required to monitor and report SSI for three procedures:

- Coronary Artery Bypass Graft (chest incision and donor site)
 - NHSN Operative Procedures CBGC (coronary artery bypass graft procedures with chest incision site only) and CBGB (coronary artery bypass graft procedures with both a chest and donor site incision) (ICD-9: 36.10-36.17, 36.19, 36.2)
- Colon Surgery (incision, resection, or anastomosis of the large intestine; includes large-to-small and small-to-large bowel anastomosis; does not include rectal operations)
 - NHSN Operative Procedure COLO (ICD-9: 17.31-17.36, 17.39, 45.03, 45.26, 45.41, 45.49, 45.52, 45.71-45.76, 45.79, 45.81-45.83, 45.92-45.95, 46.03, 46.04, 46.10, 46.11, 46.13, 46.14, 46.43, 46.52, 46.75, 46.76, 46.94)
- Abdominal Hysterectomy (includes that by laparoscope)
 - NHSN Operative Procedure HYST (ICD-9: 68.31, 68.39, 68.41, 68.49, 68.61, 68.69)
- Knee Arthroplasty
 - NHSN Operative Procedure KPRO (ICD-9: 00.80-00.84, 81.54, 81.55)

SSI monitoring includes total counts as well as patient-level information for all patients undergoing the same procedure. This allows for appropriate risk adjustment, because risk for development of an SSI can be influenced by patient- and procedure-specific factors. Patient and procedure risk factors that are considered when assessing SSI SIR by hospital vary by type of procedure but include factors such as:

- Operation lasting more than the duration of cut point hours⁵

⁵ Cut points are assigned based upon the time that the majority (75%) of a specific procedure takes to perform. The duration cut point is measured in minutes and is the time between the skin incision and skin closure.

- Contaminated (Class III) or Dirty/Infected (Class IV) surgical wound class
- American Society of Anesthesiologists (ASA) Classification of Physical Status score of 3, 4, or 5 (see below)
- Age of the patient
- Gender of the patient
- Hospital bed size
- Hospital's medical school affiliation
- Whether the surgery was the result of trauma

The wound class is a way of determining how clean or dirty the operative body site was at the time of the operation. Operation body sites are divided into four classes:

Class I/Clean: An uninfected operation body site is encountered and the respiratory, digestive, genital, or uninfected urinary tracts are not entered.

Class II/Clean-Contaminated: Operation body sites in which the respiratory, digestive, genital, or urinary tracts are entered under controlled conditions and without unusual contamination.

Class III/Contaminated: Operation body sites that have recently undergone trauma, operations with major breaks in sterile technique (e.g., open cardiac massage), or gross spillage from the gastrointestinal tract.

Class IV/Dirty or Infected: Includes old traumatic wounds with retained dead tissue and those that involve existing infection or perforated intestines.

The ASA score is a scale used by the anesthesiologist to classify the patient's physical condition prior to surgery. It is one of the factors that help determine a patient's risk of possibly developing an SSI.

The ASA scale is:

1. Normally healthy patient
2. Patient with mild systemic disease
3. Patient with severe systemic disease
4. Patient with an incapacitating systemic disease that is a constant threat to life
5. A patient who is not predicted to survive with or without the operation

All SSI metrics are monitored following NHSN protocols and definitions and reported in NHSN.

The NHSN SSI protocols are available at:

<http://www.cdc.gov/nhsn/PDFs/pscManual/9pscSSICurrent.pdf>.

In general, most SSI identified during the initial hospital encounter or those that require readmission are thought to be well-represented in HAI surveillance data. However, the infections that develop after the patient is discharged home that do not require readmission are thought to be less well-represented, as inclusion in surveillance requires the healthcare facility to proactively seek out these infections, a process known as post-discharge surveillance.

The proportion of infections detected through post-discharge surveillance in comparison to the state average may provide an indicator of how well the facility is able to identify these infections, which ultimately can impact the facility's SSI SIR (better surveillance may result in a higher SIR). SSI data detected through post-discharge surveillance were analyzed for 2013-2014 and infection control staff were interviewed regarding methods of SSI surveillance in 2011. The percent of SSI detected post-discharge was calculated for each hospital and compared to a moving state average (hospital vs. all other hospitals). Statistical significance was calculated using the NHSN Statistics Calculator.

Limitations for SSI surveillance:

- Hospitals do not use a standard method of post-discharge surveillance to identify infections once a patient has been discharged. This poses a challenge for data interpretation, because a higher SSI rate (for example) at a given hospital may represent either poor infection prevention practices or, conversely, a better system for identifying infections. Post-discharge surveillance methods were analyzed to better understand these differences between facilities and are presented in this report on page 57.
- SSI reporting in NHSN requires not only reporting of infections but also detailed information on each patient undergoing the procedure being monitored. This allows for risk adjustment. As such, DHHS has elected to monitor a subset of procedures based on national recommendations since it would not be feasible for hospitals to report information on every patient receiving a surgical procedure due to the burden of reporting.
- Some procedures require monitoring for SSI for up to 90 days after the procedure depending on the depth of infection (in NH, this includes CABG and knee arthroplasty). Due to the reporting deadlines required for producing a data report such as this, it is possible that deep or organ/space SSI associated with surgeries performed at the end of 2014 may not be included in this report. As such, this report may not account for all SSI that developed as a result of procedures performed in 2014.
- The SSI data presented in this report includes all types of infections, including superficial SSI, which can occur as a result of care in the hospital but also as a result of the patient's care of the wound site once discharged.
- Validation of 2009-2010 data showed that there was approximately 31% under-reporting of SSI across all NH hospitals. This under-reporting was mostly due to misunderstandings about the NHSN definition for SSI. In addition to under-reporting, the validation studies also found 12% over-reporting (i.e., reporting an infection that was not truly a SSI). The 2014 SSI data presented in this report have not been validated and must be interpreted with the understanding that in general there are both under- and over-reporting of infections.

J. Surgical Antimicrobial Prophylaxis Administration Monitoring

All NH hospitals report surgical antimicrobial prophylaxis data and other measures to CMS through the Surgical Care Improvement Project (SCIP). For this reason, DHHS does not collect surgical antimicrobial prophylaxis data directly from hospitals. In addition to other measures required by CMS, measures relative to NH RSA 151:33 include the following:

- SCIP 1: Number and percentage of patients who received prophylactic antibiotic within one hour prior to surgery
- SCIP 2: Number and percentage of patients who received the appropriate prophylactic antibiotic
- SCIP 3: Number and percentage of patients whose prophylactic antibiotic was discontinued within 24 hours after surgery

These process measures show a hospital's adherence rate to best practices designed to reduce surgical complications. Hospitals follow the CMS specification manual appropriate to the date of discharge found at:

<http://qualitynet.org/dcs/ContentServer?cid=1141662756099&pagename=QnetPublic%2FPage%2FQnetTier2&c=Page>.

In previous years, DHHS accessed hospital data on surgical antimicrobial prophylaxis administration from the New Hampshire Quality Care website at: <http://www.nhqualitycare.org/>.

As of July 1, 2015, SCIP 2014 data reported to CMS was unavailable and the HAI Program was unable to conduct further analysis of this measure as routinely included in this report.

K. Influenza Vaccination Percentage Monitoring

HCP can become infected with the influenza virus through contact with infected patients and can transmit influenza to patients and other HCP. Despite documented benefits of HCP influenza vaccination on patient outcomes and HCP absenteeism nationally, vaccination coverage among HCP remains low. In a CDC survey, influenza vaccination coverage in HCP nationally was 75.2% during the 2013-14 influenza season.^x Because HCP provide care to patients at high risk for complications of influenza, they should be offered influenza vaccine each year. Currently there are no regulations requiring vaccination in NH, and HCP are free to decline vaccination for any reason. However, some hospitals do have policies requiring mandatory HCP vaccination. Vaccination coverage in hospital HCP have been monitored in NH for several years.

All hospitals are required to report HCP and patient vaccination data directly to DHHS. This reporting occurs either solely via a web-based survey provided to facilities, or via NHSN in combination with an abbreviated web-based survey, newly for the 2014-15 influenza season and according to facility discretion. See Appendix 2 for the 2014-15 survey questions regarding influenza vaccination. Data for the 2014-15 influenza season were reported by 24 (71%) hospitals on or before April 30, 2015; the remaining 10 (29%) hospitals reported at a later date. Submission of these data meets the requirements of both the HAI law (RSA 151:32-35) and the healthcare immunization law (RSA 151:9-b).

HCP influenza vaccination percentages were calculated by dividing the total number of HCP that worked or volunteered in each facility for at least one working day between October 1, 2014

and March 31, 2015 by the total number of HCP immunized against influenza for the 2014-15 influenza season.

Limitations for influenza vaccination monitoring:

- The data collection tools ask for the total number of HCP vaccinated. This may not reflect the number of HCP to whom the vaccine was offered. Hospitals may vary in the refusal percentage for vaccination among HCP and the reasons for such refusal. Additionally, some HCP may not be eligible to receive the vaccine. DHHS attempted to assess why unvaccinated HCP did not receive the vaccine; however, not all hospitals were able to report this information.
- Because the web-based survey did not include options for facilities to report unknown vaccination status, patients and HCP with unknown vaccination status were analyzed as though they were not vaccinated. This results in a conservative estimate of vaccination status (e.g., lower than in reality).
- Vaccination status is not uniformly available by location where the vaccination was received (e.g., at the reporting facility or elsewhere).
- Data collection techniques at hospitals may vary from season to season, potentially affecting comparison of data. DHHS continues to work towards improving the validity and utility of this measure in order to eliminate issues that pose problems for such comparison.
- Reporting patient vaccination percentages is limited by availability of vaccine and by hospitals' ability to track why patients did not receive the vaccine. For example, the survey asks for admissions through March 31, 2015, by which time some hospitals may have used their vaccine supply and are unable to order more. This scenario would result in a lower vaccination percentage because the survey counts all admissions through March, even though there was no opportunity to vaccinate these patients due to supply. DHHS has elected not to report patient vaccination percentages until a better way to collect the information is identified so that results are reliable, accurate, and informative.
- For the 2014-15 influenza season, CMS newly required all facilities sharing the same CMS Certification Number (CCN) to report this measure in aggregate via NHSN. Because some ASC and hospitals may share the same CCN, it is possible that HCP influenza vaccination data contains more duplicate data than in prior influenza seasons.

III. STATEWIDE DATA

HAI data are presented throughout this report as both SIR and rates as appropriate. Presenting data as a SIR allows for aggregating data across risk groups, procedures, and hospitals to gain a better understanding of the incidence of HAI while still adjusting for underlying patient or hospital factors that may affect the occurrence of infections. The SIR allows comparison between how many infections actually occurred and how many were predicted to occur based on national data. Specific annual rate information is also provided where possible, which represents the number of infections that occurred. Rate data are limited in that they must be stratified by certain factors, such as hospital and type of ICU; they cannot be aggregated over these categories for the purpose of analysis. See technical notes for additional information on rates and the SIR.

Because a SIR is a comparison of the number of actual observed infections to the number predicted based on national data, an SIR of 1.0 means that exactly the same number of infections was observed as was predicted. An SIR of less than one means that fewer infections were observed than were predicted (for example, SIR = 0.70 would be interpreted as 30% fewer infections observed than predicted). An SIR of more than one means that more infections were observed than were predicted (for example, SIR = 1.30 would be interpreted as 30% more infections observed than predicted). A confidence interval is calculated to determine whether the difference between observed and predicted infections is statistically significant. If the difference is not statistically significant, the observed and predicted numbers of infections are considered similar. See technical notes for additional information on confidence intervals.

This report provides comparisons with national and State data where appropriate. Comparisons are color coded consistently throughout. For infections, yellow represents infection rates or SIR that are similar to national data, red represents infection rates or SIR that are significantly higher than national data, and green represents infection rates or SIR that are significantly lower than national data.

■ SIR: fewer than predicted ■ SIR: similar to predicted ■ SIR: more than predicted

For process measures, yellow represents percentages that are similar to the State percentage, red represents percentages that are significantly lower than the State percentage, and green represents percentages that are significantly higher than the State percentage.

■ higher than State ■ similar to State ■ lower than State

Statistical significance is affected by sample size. If a value is almost or just barely significant, just a few additional observations can push significance one way or the other (i.e., not significant or significant).

A. Statewide Standardized Infection Ratios

In 2014, 219 HAI were reported by all 26 acute care hospitals in NH. These infections represent CLABSI and CAUTI in ICU and SSI following colon, knee arthroplasty, abdominal hysterectomy, and CABG procedures. A total of 256.34 infections were predicted based on national data; the

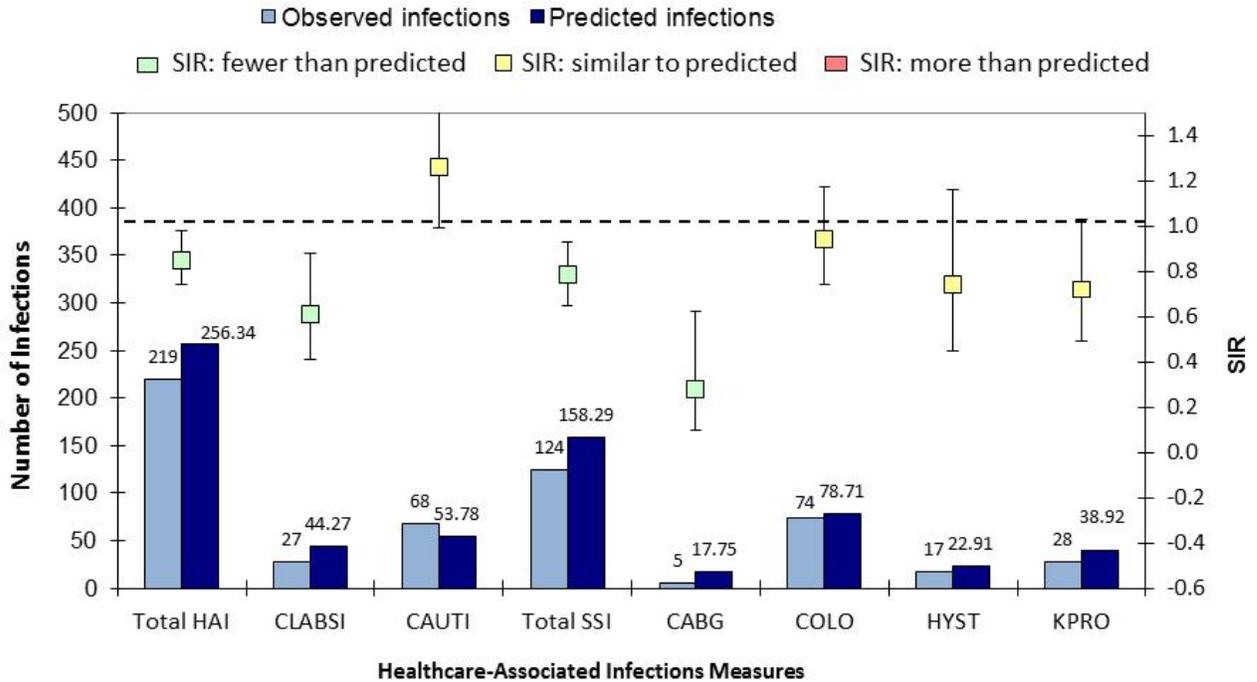
overall observed number of HAI was 15% fewer than predicted. More specifically, there were 39% fewer CLABSI and 22% fewer SSI. There were 26% more CAUTI, but this difference is not statistically significant and the number of infections observed is considered similar to national data. Looking individually at the specific procedures tracked for SSI by NH hospitals, there were 72% fewer infections following CABG procedures, 6% fewer infections following colon procedures, 26% fewer infections following abdominal hysterectomy procedures, and 28% fewer infections following knee arthroplasty procedures. However, the differences for colon, abdominal hysterectomy, and knee arthroplasty procedures are not statistically significant, and the number of infections observed are considered similar to national data. These data are shown in Table 1 and Figure 2.

Table 1. Statewide standardized infection ratios, Jan 1–Dec 31, 2014

	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted Number of Infections
Overall HAI SIR	219	256.34	0.85	0.74 , 0.98	Lower
	The overall observed number of HAI in New Hampshire hospitals was 15% fewer than predicted based on national data. This difference is statistically significant, which means the overall number of HAI in the state is LOWER than the number seen nationally.				
CLABSI SIR	27	44.27	0.61	0.41 , 0.88	Lower
	The overall observed number of CLABSI in New Hampshire hospitals was 39% fewer than predicted based on national data. This difference is statistically significant, which means the overall number of CLABSI in the state is LOWER than the number seen nationally.				
CAUTI SIR	68	53.78	1.26	0.99 , 1.59	Similar
	The overall observed number of CAUTI in New Hampshire hospitals was 26% more than predicted based on national data. This difference is not statistically significant, which means the overall number of CAUTI in the state is SIMILAR to the number seen nationally.				
Overall SSI SIR	124	158.29	0.78	0.65 , 0.93	Lower
	The overall observed number of SSI in New Hampshire hospitals was 22% fewer than predicted based on national data. This difference is statistically significant, which means the overall number of SSI in the state is LOWER than the number seen nationally.				
CABG SIR	5	17.75	0.28	0.10 , 0.62	Lower
	The overall observed number of CABG infections in New Hampshire hospitals was 72% fewer than predicted based on national data. This difference is statistically significant, which means the overall number of CABG infections in the state is LOWER than the number seen nationally.				
COLO SIR	74	78.71	0.94	0.74 , 1.17	Similar
	The overall observed number of COLO infections in New Hampshire hospitals was 6% fewer than predicted based on national data. This difference is not statistically significant, which means the overall number of COLO infections in the state is SIMILAR to the number seen nationally.				
HYST SIR	17	22.91	0.74	0.45 , 1.16	Similar
	The overall observed number of HYST infections in New Hampshire hospitals was 26% fewer than predicted based on national data. This difference is not statistically significant, which means the overall number of HYST infections in the state is SIMILAR to the number seen nationally.				
KPRO SIR	28	38.92	0.72	0.49 , 1.03	Similar
	The overall observed number of KPRO infections in New Hampshire hospitals was 28% fewer than predicted based on national data. This difference is not statistically significant, which means the overall number of KPRO infections in the state is SIMILAR to the number seen nationally.				

HAI: Healthcare-associated infection, CLABSI: Central line-associated blood stream infections, CAUTI: Catheter-associated urinary tract infections, SSI: Surgical site infections, CABG: Surgical site infections associated with coronary artery bypass graft procedures, COLO: Surgical site infections associated with colon procedures, HYST: Surgical site infections associated with abdominal hysterectomy procedures, KPRO: Surgical site infections associated with knee arthroplasty procedures

Figure 2. Statewide standardized infection ratios, Jan 1–Dec 31, 2014



- HAI: Healthcare-associated infection
- CLABSI: Central line-associated blood stream infections
- CAUTI: Catheter-associated urinary tract infections
- SSI: Surgical site infections
- CABG: Surgical site infections associated with coronary artery bypass graft procedures
- COLO: Surgical site infections associated with colon procedures
- HYST: Surgical site infections associated with abdominal hysterectomy procedures
- KPRO: Surgical site infections associated with knee arthroplasty procedures

B. Overall Standardized Infection Ratios by Hospital

Table 2 and Figure 3 below show the total number of HAI reported by each hospital. These infections represent CLABSI and CAUTI in ICU and SSI following colon, abdominal hysterectomy, knee arthroplasty, and CABG procedures. Twenty-two hospitals had sufficiently robust data to present. Of these, four hospitals had an overall number of infections that was lower than predicted based on national data. Two hospitals observed more infections than were predicted. The remaining 16 observed a similar number of infections as were predicted based on national data.

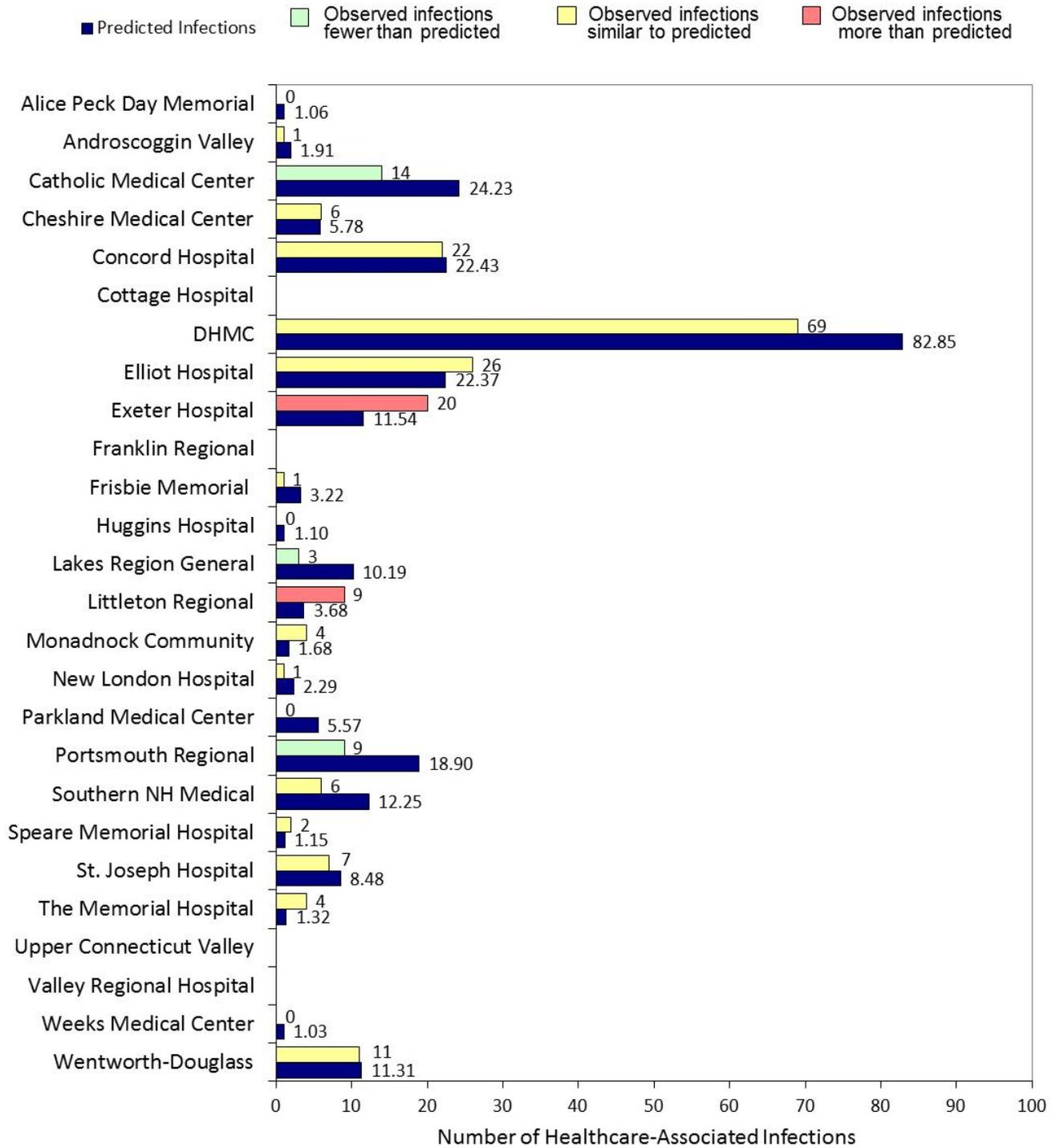
Table 2. Overall healthcare-associated infections standardized infection ratios, Jan 1–Dec 31, 2014

Hospital	Observed Infections*	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted Number of Infections
Alice Peck Day Memorial	0	1.06	0.00	-, 13.74	Similar
Androscoggin Valley	1	1.91	0.52	0.01, 2.92	Similar
Catholic Medical Center	14	24.23	0.58	0.32, 0.97	Lower
Cheshire Medical Center	6	5.78	1.04	0.38, 2.26	Similar
Concord Hospital	22	22.43	0.98	0.61, 1.48	Similar
Cottage Hospital	†	†	†	†	†
DHMC	69	82.85	0.83	0.65, 1.05	Similar
Elliot Hospital	26	22.37	1.16	0.76, 1.70	Similar
Exeter Hospital	20	11.54	1.73	1.06, 2.68	Higher
Franklin Regional	†	†	†	†	†
Frisbie Memorial	1	3.22	0.31	-, 1.73	Similar
Huggins Hospital	0	1.10	0.00	-, 3.33	Similar
Lakes Region General	3	10.19	0.29	0.06, 0.86	Lower
Littleton Regional	9	3.68	2.45	1.12, 4.64	Higher
Monadnock Community	4	1.68	2.38	0.64, 6.10	Similar
New London Hospital	1	2.29	0.44	0.01, 2.43	Similar
Parkland Medical Center	0	5.57	0.00	-, 0.66	Lower
Portsmouth Regional	9	18.90	0.48	0.22, 0.90	Lower
Southern NH Medical	6	12.25	0.49	0.18, 1.07	Similar
Speare Memorial Hospital	2	1.15	1.74	0.20, 6.28	Similar
St. Joseph Hospital	7	8.48	0.83	0.33, 1.70	Similar
The Memorial Hospital	4	1.32	3.04	0.82, 7.78	Similar
Upper Connecticut Valley	†	†	†	†	†
Valley Regional Hospital	†	†	†	†	†
Weeks Medical Center	0	1.03	0.00	-, 3.57	Similar
Wentworth-Douglass	11	11.31	0.97	0.48, 1.74	Similar
State Total	219	256.34	0.85	0.74, 0.98	Lower

† Data are not shown for hospitals with less than one predicted infection.

* Observed number of infections includes all infections that are required to be reported (central line-associated bloodstream infections, catheter-associated urinary tract infections, and surgical site infections following coronary artery bypass, colon, abdominal hysterectomy, and knee arthroplasty procedures).

Figure 3. Overall healthcare-associated infections standardized infection ratios, Jan 1–Dec 31, 2014



Note: Data are not shown for hospitals with less than one predicted infection. Observed number of infections includes all infections that are required to be reported (central line-associated bloodstream infections, catheter-associated urinary tract infections and surgical site infections following coronary artery bypass, colon, abdominal hysterectomy, and knee arthroplasty procedures).

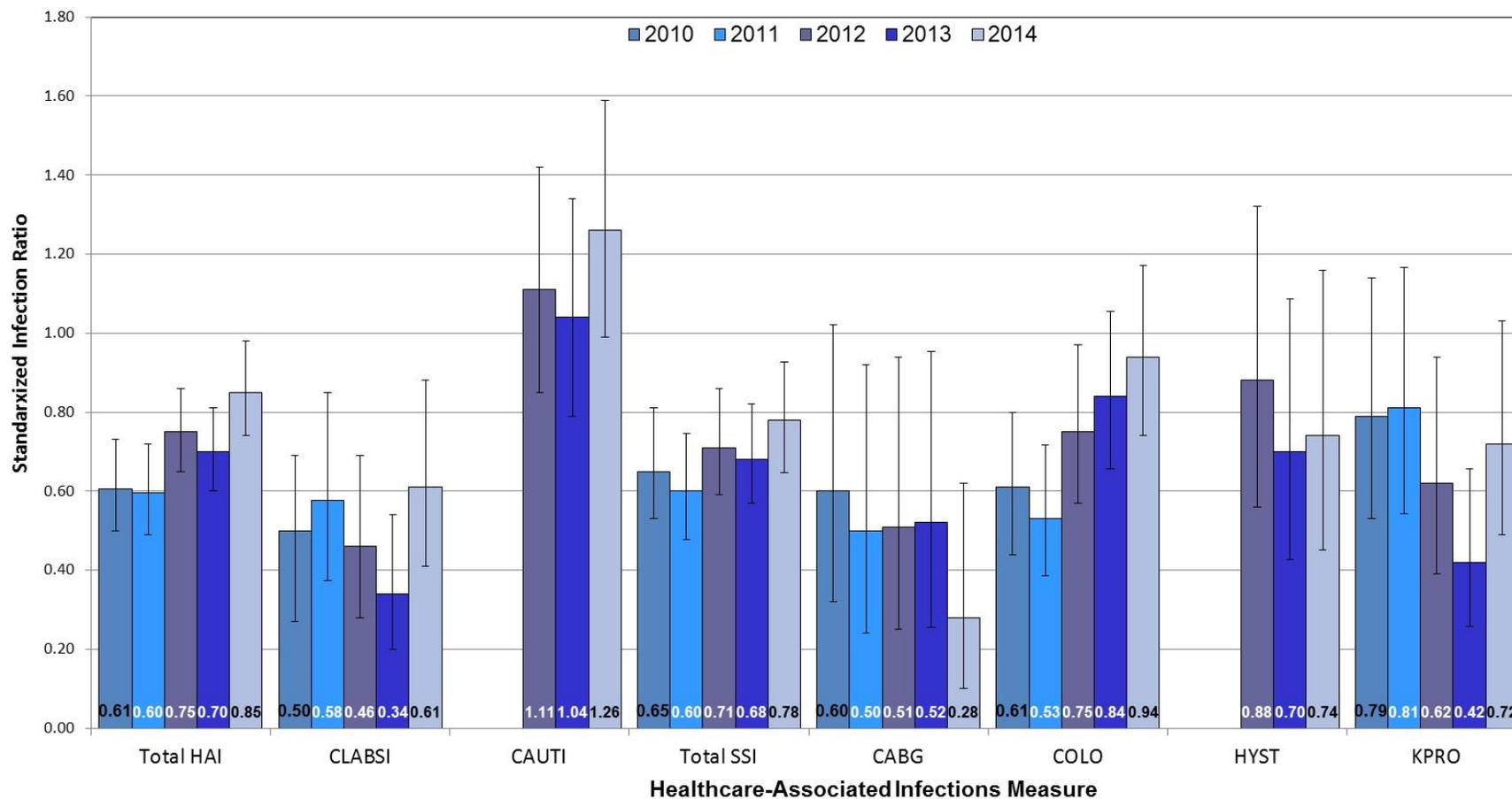
Overall Statewide Standardized Infection Ratios: Comparison to 2013 Data

Table 3 shows that the statewide SIR in 2014 increased in comparison to 2013; however, this difference was not statistically significant. In 2014, a total of 219 HAI were reported, representing 124 SSI, 27 CLABSI, and 68 CAUTI compared to 183 HAI (112 SSI, 15 CLABSI, and 56 CAUTI) in 2013.

Table 3. Overall healthcare-associated infections standardized infection ratios, comparison between 2013 and 2014

Hospital	Standardized Infection Ratio (SIR) 2014	95% Confidence Interval 2014	Standardized Infection Ratio (SIR) 2013	95% Confidence Interval 2013	2014 Compared to 2013
Overall HAI SIR	0.85	0.74 , 0.98	0.70	0.60 , 0.81	Similar
CLABSI SIR	0.61	0.41 , 0.88	0.34	0.20 , 0.54	Similar
CAUTI SIR	1.26	0.99 , 1.59	1.04	0.79 , 1.34	Similar
Overall SSI SIR	0.78	0.65 , 0.93	0.68	0.57 , 0.82	Similar
CABG SIR	0.28	0.10 , 0.62	0.52	0.25 , 0.95	Similar
COLO SIR	0.94	0.74 , 1.17	0.84	0.66 , 1.06	Similar
HYST SIR	0.74	0.45 , 1.16	0.70	0.43 , 1.09	Similar
KPRO SIR	0.72	0.49 , 1.03	0.42	0.26 , 0.66	Similar

Figure 4. Statewide standardized infection ratios, comparison between 2010-2014



HAI: Healthcare-associated infection, CLABSI: Central line-associated blood stream infections, CAUTI: Catheter-associated urinary tract infections, SSI: Surgical site infections, CABG: SSI associated with coronary artery bypass graft procedures, COLO: SSI associated with colon procedures, HYST: SSI associated with abdominal hysterectomy procedures, KPRO: SSI associated with knee arthroplasty procedures
 Note: CAUTI and HYST were not reportable from 2009 to 2011.

Table 4. Overall healthcare-associated infections standardized infection ratios by hospital, comparison between 2013 and 2014

Hospital	Standardized Infection Ratio (SIR) 2014	95% Confidence Interval 2014	Standardized Infection Ratio (SIR) 2013	95% Confidence Interval 2013	2014 Compared to 2013
Alice Peck Day Memorial	0.00	- , 13.74	†	†	N/A
Androscoggin Valley	0.52	0.01 , 2.92	0.00	- , 2.26	Similar
Catholic Medical Center	0.58	0.32 , 0.97	0.60	0.32 , 1.02	Similar
Cheshire Medical Center	1.04	0.38 , 2.26	0.35	0.04 , 1.25	Similar
Concord Hospital	0.98	0.61 , 1.48	1.02	0.66 , 1.52	Similar
Cottage Hospital	†	†	0.84	0.01 , 4.67	N/A
DHMC	0.83	0.65 , 1.05	0.73	0.56 , 0.93	Similar
Elliot Hospital	1.16	0.76 , 1.70	0.91	0.57 , 1.37	Similar
Exeter Hospital	1.73	1.06 , 2.68	0.64	0.26 , 1.32	Similar
Franklin Regional	†	†	†	†	†
Frisbie Memorial	0.31	- , 1.73	0.00	- , 1.54	Similar
Huggins Hospital	0.00	- , 3.33	0.00	- , 1.80	Similar
Lakes Region General	0.29	0.06 , 0.86	0.11	- , 0.62	Similar
Littleton Regional	2.45	1.12 , 4.64	0.52	0.06 , 1.90	Similar
Monadnock Community	2.38	0.64 , 6.10	0.00	- , 2.19	Similar
New London Hospital	0.44	0.01 , 2.43	0.00	- , 2.09	Similar
Parkland Medical Center	0.00	- , 0.66	0.79	0.26 , 1.85	Similar
Portsmouth Regional	0.48	0.22 , 0.90	0.43	0.18 , 0.84	Similar
Southern NH Medical	0.49	0.18 , 1.07	0.58	0.25 , 1.13	Similar
Speare Memorial Hospital	1.74	0.20 , 6.28	1.47	0.17 , 5.31	Similar
St. Joseph Hospital	0.83	0.33 , 1.70	1.00	0.46 , 1.90	Similar
The Memorial Hospital	3.04	0.82 , 7.78	1.28	0.14 , 4.62	Similar
Upper Connecticut Valley	†	†	†	†	†
Valley Regional Hospital	†	†	†	†	†
Weeks Medical Center	0.00	- , 3.57	0.00	- , 3.11	Similar
Wentworth-Douglass	0.97	0.48 , 1.74	0.68	0.27 , 1.39	Similar
State Total	0.85	0.74 , 0.98	0.70	0.60 , 0.81	Similar

† Data are not shown for hospitals with less than one predicted infection.

N/A or not applicable: Comparison between two years of data at a given facility is not applicable if no data were reported by that facility and/or if data must be censored for one or more of the years presented.

D. Central Line-Associated Bloodstream Infections

Tables 4 through 6 and Figures 5 and 6 show the number of CLABSI that was identified in adult ICU at each hospital in NH. The analyses presented Table 5 and Figure 6 show that all categories of ICU saw similar rates of CLABSI in comparison to national rates for the same ICU category, with the exception of medical/surgical ICU at major teaching hospitals, which saw a higher rate in comparison to the national rate. Table 7 shows that among ICU with sufficiently robust data to present, all ICU observed a similar CLABSI rate to national rates with the exception of one hospital, which saw a higher rate in comparison to the national rate in its medical/surgical ICU. As shown in Table 6 and 8 and Figure 5, Birthweight category D, or neonates with birthweights between 1,501 and 2,500 grams, saw a significantly higher CLABSI rate in comparison to the national data for weight range. See methods for additional information on data collection.

Statewide Central Line-Associated Bloodstream Infections Rates

The statewide CLABSI rate at the medical/surgical ICU in the major teaching hospital was significantly higher than the national rate, while all other statewide rates for CLABSI reported for the other ICU categories were similar to the national rate.

Table 5. Statewide rates for central line-associated bloodstream infections, Jan 1–Dec 31, 2014

CLABSI Rates	Infections	Central line days	State Rate	National Rate	p-value	State Rate Compared to National Rate
Medical/Surgical ICU >15 beds (n=4)	4	7,725	0.5	0.8	0.365	Similar
Medical/Surgical ICU ≤15 beds (n=7)	1	5,906	0.2	0.8	0.055*	Similar
Critical Access Medical/Surgical ICU (n=8)	0	302	0.0	0.5	0.867	Similar
Medical/Surgical ICU - Major Teaching Hospital (n=1)	14	6,590	2.1	1.1	0.032	Higher
Medical ICU (n=2)	0	615	0.0	1.1	0.515	Similar
Critical Access Medical ICU (n=2)	0	107	0.0	0.5	0.951	Similar
Medical Cardiac ICU (n=1)	2	1,209	1.7	1.0	0.473	Similar
Pediatric Medical ICU (n=1)	0	174	0.0	0.8	0.870	Similar
Pediatric Medical/Surgical ICU (n=1)	0	443	0.0	1.2	0.579	Similar

Note: For CLABSI, denominator is number of central line days. CLABSI rate is the number of infections per 1,000 central line days.

Table 6. Statewide rates for central line-associated bloodstream infections in neonatal intensive care units by birthweight category, Jan 1–Dec 31, 2014

Birthweight Category	Infections	Central line days	State Rate	National Rate	p-value	State Rate Compared to National Rate
BW Category A ≤750 g	2	235	8.5	2.2	0.110	Similar
BW Category B =751-1000 g	1	310	3.2	1.9	0.554	Similar
BW Category C =1001-1500 g	1	599	1.7	1.0	0.551	Similar
BW Category D =1501-2500 g	2	509	3.9	0.6	0.047	Higher
BW Category E >2500 g	0	451	0.0	0.5	0.783	Similar

Figure 5. Statewide rates for central line-associated bloodstream infections in neonatal intensive care units by birthweight category, Jan 1–Dec 31, 2014

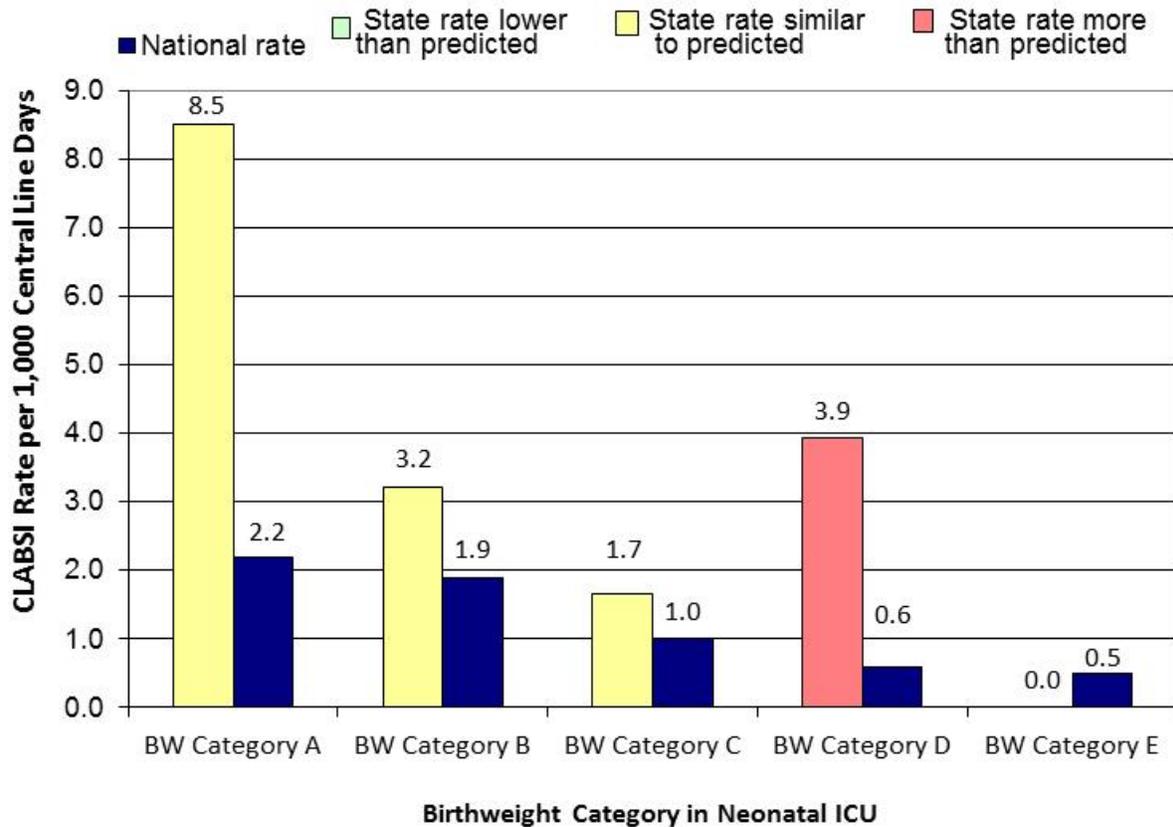
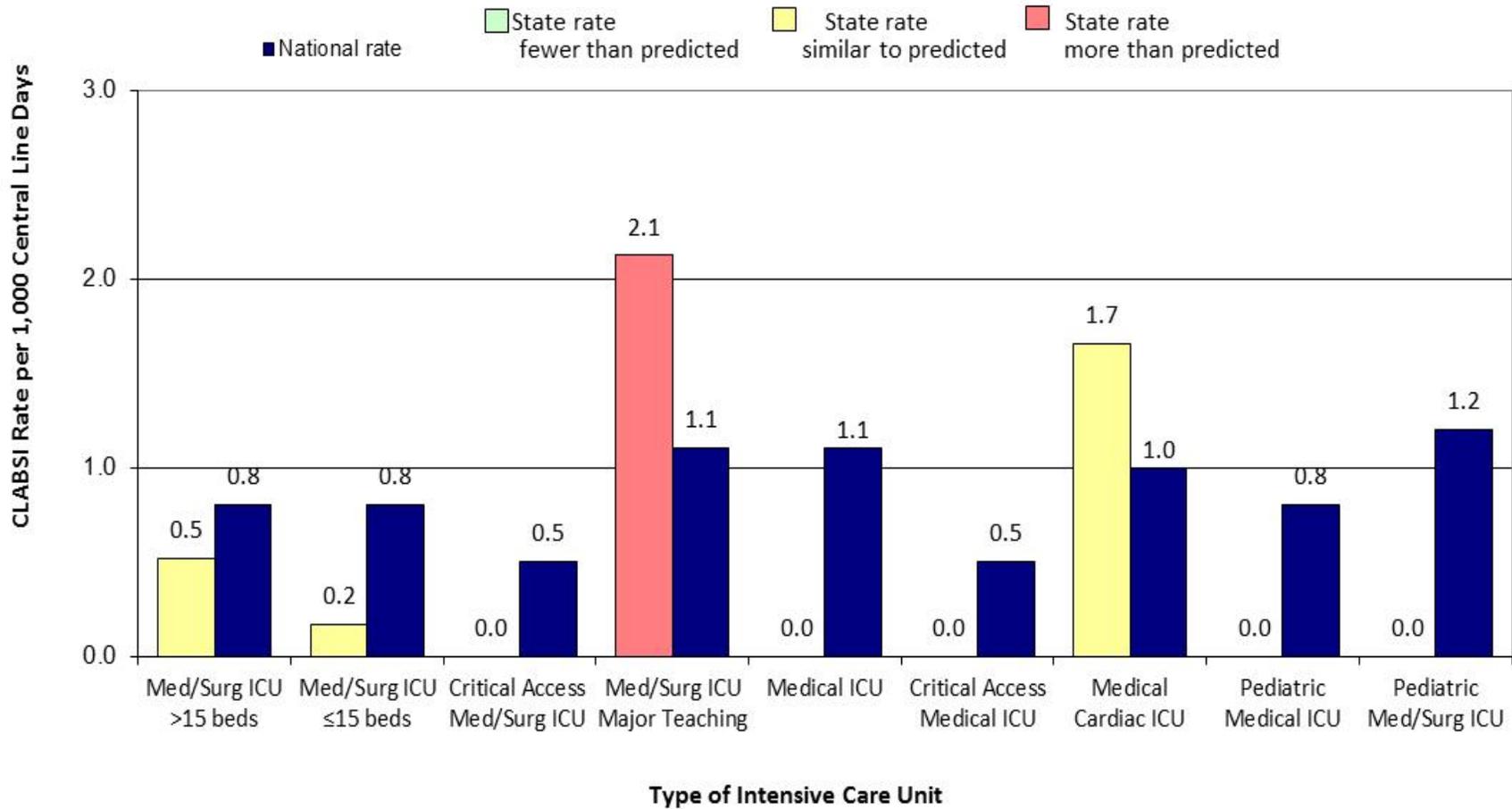


Figure 6. Statewide rates for central line-associated bloodstream infections, Jan 1–Dec 31, 2014



Med/Surg = medical surgical

ICU = intensive care unit

Table 7. Central line-associated bloodstream infections rates, Jan 1–Dec 31, 2014

	Unit Type	Infections	Central line days	Hospital Rate	National Rate	P-value	Hospital Rate Compared to National Rate
Androscoggin Valley	Medical ICU	0	77	0.0	0.5	0.964	Similar
Catholic Medical	Med/Surg ICU	3	3,371	0.9	0.8	0.825	Similar
Cheshire Medical	Medical ICU	0	264	0.0	1.1	0.752	Similar
Concord Hospital	Med/Surg ICU	0	1,760	0.0	0.8	0.235	Similar
Cottage Hospital	Med/Surg ICU	†	†	†	†	†	†
DHMC	Cardiac ICU	2	1,209	1.7	1.0	0.473	Similar
	Med/Surg ICU	14	6,590	2.1	1.1	0.032	Higher
	Ped Med/Surg ICU	0	443	0.0	1.2	0.579	Similar
Elliot Hospital	Med/Surg ICU	0	1,509	0.0	0.8	0.290	Similar
	Ped Med ICU	0	174	0.0	0.8	0.870	Similar
Exeter Hospital	Med/Surg ICU	0	1,200	0.0	0.8	0.375	Similar
Franklin Regional	Med/Surg ICU	†	†	†	†	†	†
Frisbie Memorial	Med/Surg ICU	0	377	0.0	0.8	0.735	Similar
Huggins Hospital	Med/Surg ICU	0	113	0.0	0.5	0.958	Similar
Lakes Region General	Med/Surg ICU	0	361	0.0	0.8	0.744	Similar
Littleton Regional	Med/Surg ICU	0	105	0.0	0.5	0.952	Similar
Monadnock Hospital	Med/Surg ICU	†	†	†	†	†	†
New London Hospital	Med/Surg ICU	†	†	†	†	†	†
Parkland Medical	Medical ICU	0	351	0.0	1.1	0.685	Similar
	Med/Surg ICU	0	327	0.0	0.8	0.765	Similar
Portsmouth Regional	Med/Surg ICU	1	2,106	0.5	0.8	0.664	Similar
Southern NH Medical	Med/Surg ICU	1	1,085	0.9	0.8	0.812	Similar
Speare Memorial	Med/Surg ICU	†	†	†	†	†	†
St. Joseph Hospital	Med/Surg ICU	0	505	0.0	0.8	0.662	Similar
The Memorial Hospital	Medical ICU	†	†	†	†	†	†
Weeks Medical Center	Med/Surg ICU	†	†	†	†	†	†
Wentworth-Douglass	Med/Surg ICU	0	1,030	0.0	0.8	0.431	Similar

Note: Alice Peck Day Memorial Hospital and Valley Regional Hospital did not have an intensive care unit in which to monitor infections. Upper Connecticut Valley did not have any patients with central lines in place in the ICU in 2014. Parkland Medical Center changed the categorization of its ICU halfway through 2014.

† Data are not shown for hospitals with fewer than 50 central line days.

Med/Surg = medical surgical ICU = intensive care unit Ped = pediatric

Table 8. Central line-associated bloodstream infections rates in neonatal intensive care units by birthweight category, Jan 1–Dec 31, 2014

	Birthweight Category	Infections	Central line days	Hospital Rate	National Rate	P-value	Hospital Rate Compared to National Rate
DHMC	BW Category A ≤750 g	2	163	12.3	2.2	0.056	Similar
	BW Category B =751-1000 g	0	179	0.0	1.9	0.717	Similar
	BW Category C =1001-1500 g	1	348	2.9	1.0	0.329	Similar
	BW Category D =1501-2500 g	1	274	3.6	0.6	0.172	Similar
	BW Category E >2500 g	0	225	0.0	0.5	0.885	Similar
Elliot Hospital	BW Category A ≤750 g	0	72	0.0	2.2	0.854	Similar
	BW Category B =751-1000 g	1	131	7.6	1.9	0.242	Similar
	BW Category C =1001-1500 g	0	241	0.0	1.0	0.794	Similar
	BW Category D =1501-2500 g	1	223	4.5	0.6	0.140	Similar
	BW Category E >2500 g	0	226	0.0	0.5	0.884	Similar
Southern NH Medical	BW Category A ≤750 g	†	†	†	†	†	†
	BW Category B =751-1000 g	†	†	†	†	†	†
	BW Category C =1001-1500 g	†	†	†	†	†	†
	BW Category D =1501-2500 g	†	†	†	†	†	†
	BW Category E >2500 g	†	†	†	†	†	†

Note: DHMC, Elliot, and Southern NH Medical have neonatal intensive care units. All other hospitals do not and as such, had no data to report.

† Data are not shown for hospitals with fewer than 50 central line days for each birthweight category.

CLABSI Standardized Infection Ratios

Overall, the observed number of CLABSI was 39% fewer than predicted based on national data. The analysis presented in Table 9 and Figure 7 shows that nine hospitals observed a similar number of infections as predicted, and none of the hospitals observed either fewer or more infections than predicted based on national data.

Table 9. Central line-associated bloodstream infections standardized infection ratios, Jan 1– Dec 31, 2014

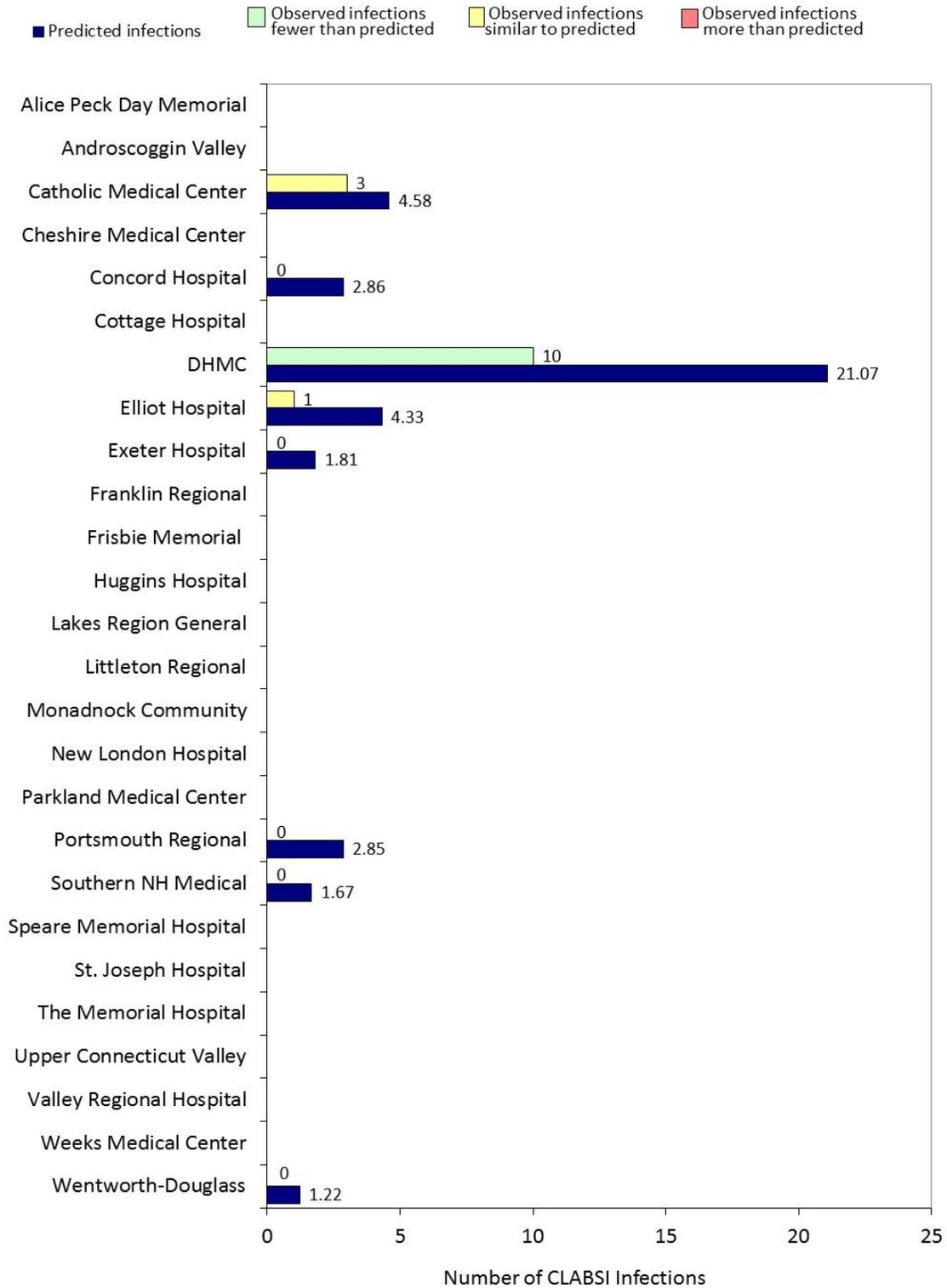
	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted Number of Infections
Alice Peck Day Memorial	-	-	-	-	-
Androscoggin Valley	†	†	†	†	†
Catholic Medical Center	3	5.06	0.59	0.15 , 1.62	Similar
Cheshire Medical Center	†	†	†	†	†
Concord Hospital	0	2.64	0.00	- , 1.14	Similar
Cottage Hospital	†	†	†	†	†
DHMC	20	20.07	1.00	0.63 , 1.51	Similar
Elliot Hospital	2	4.17	0.48	0.08 , 1.59	Similar
Exeter Hospital	0	1.80	0.00	- , 1.66	Similar
Franklin Regional	†	†	†	†	†
Frisbie Memorial	†	†	†	†	†
Huggins Hospital	†	†	†	†	†
Lakes Region General	†	†	†	†	†
Littleton Regional	†	†	†	†	†
Monadnock Community	†	†	†	†	†
New London Hospital	†	†	†	†	†
Parkland Medical Center	0	1.16	0.00	- , 2.59	Similar
Portsmouth Regional	1	3.16	0.32	0.02 , 1.56	Similar
Southern NH Medical	1	1.66	0.60	0.03 , 2.97	Similar
Speare Memorial Hospital	†	†	†	†	†
St. Joseph Hospital	†	†	†	†	†
The Memorial Hospital	†	†	†	†	†
Upper Connecticut Valley	-	-	-	-	-
Valley Regional Hospital	-	-	-	-	-
Weeks Medical Center	†	†	†	†	†
Wentworth-Douglass	0	1.55	0.00	- , 1.94	Similar
State Total	27	44.27	0.61	0.41 , 0.88	Lower

Note: Alice Peck Day Memorial and Valley Regional did not have intensive care units in which to monitor infections. Upper Connecticut Valley did not have any patients with central lines in place in the ICU in 2014.

† Data are not shown for hospitals with less than one predicted infection.

- Facility did not report any data contributing to a SIR during this time period.

Figure 7. Central line-associated bloodstream infections standardized infection ratios Jan 1-Dec 31, 2014



Note: Data are not shown for hospitals with less than one predicted infection. Alice Peck Day Memorial Hospital and Valley Regional Hospital did not have intensive care units in which to monitor infections. Upper Connecticut Valley did not have any patients with central lines in place in the ICU in 2014.

Central Line-Associated Bloodstream Infections: Comparison to 2013 Data

Overall, in 2014 the statewide CLABSI SIR was similar to 2013. The analysis presented in Table 10 shows that all eight hospitals for which data are shown observed a similar number of infections in 2014 and 2013. Figure 8 shows that CLABSI SIR varied since 2010 and was lower than predicted based on national data.

Table 10. Central line-associated bloodstream infections standardized infection ratios, comparison between 2013 and 2014

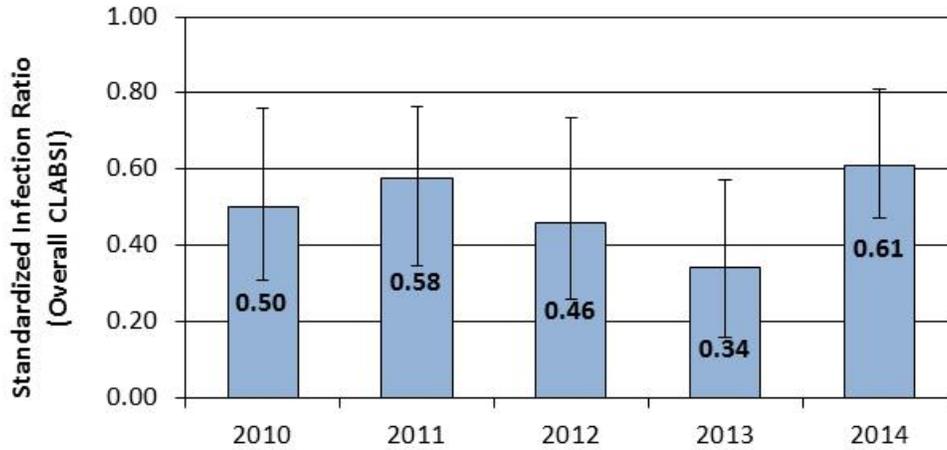
Hospital	Standardized Infection Ratio (SIR) 2014	95% Confidence Interval 2014	Standardized Infection Ratio (SIR) 2013	95% Confidence Interval 2013	2014 Compared to 2013
Alice Peck Day Memorial	-	-	-	-	-
Androscoggin Valley	†	†	†	†	†
Catholic Medical Center	0.59	0.15 , 1.62	0.66	0.17 , 1.78	Similar
Cheshire Medical Center	†	†	†	†	†
Concord Hospital	0.00	- , 1.14	0.00	- , 1.05	Similar
Cottage Hospital	†	†	†	†	†
DHMC	1.00	0.63 , 1.51	0.48	0.24 , 0.85	Similar
Elliot Hospital	0.48	0.08 , 1.59	0.23	0.01 , 1.14	Similar
Exeter Hospital	0.00	- , 1.66	0.00	- , 1.66	Similar
Franklin Regional	†	†	†	†	†
Frisbie Memorial	†	†	†	†	†
Huggins Hospital	†	†	†	†	†
Lakes Region General	†	†	†	†	†
Littleton Regional	†	†	†	†	†
Monadnock Community	†	†	†	†	†
New London Hospital	†	†	†	†	†
Parkland Medical Center	0.00	- , 2.59	†	†	N/A
Portsmouth Regional	0.32	0.02 , 1.56	0.00	- , 1.05	Similar
Southern NH Medical	0.60	0.03 , 2.97	0.00	- , 1.79	Similar
Speare Memorial Hospital	†	†	†	†	†
St. Joseph Hospital	†	†	†	†	†
The Memorial Hospital	†	†	†	†	†
Upper Connecticut Valley	-	-	-	-	-
Valley Regional Hospital	-	-	-	-	-
Weeks Medical Center	†	†	†	†	†
Wentworth-Douglass	0.00	- , 1.94	0.00	- , 2.45	Similar
State Total	0.61	0.41 , 0.88	0.34	0.20 , 0.54	Similar

Note: Alice Peck Day Memorial and Valley Regional did not have an intensive care unit in which to monitor infections in 2013 or 2014. Upper Connecticut Valley Hospital did not have any patients with central lines in place in the ICU in 2014. † Data are not shown for hospitals with less than one predicted infection.

- Facility did not report any data contributing to a SIR during this time period.

N/A or not applicable: Comparison between two years of data at a given facility is not applicable if no data were reported by that facility and/or if data must be censored for one or more of the years presented

Figure 8. Overall central line-associated bloodstream infections standardized infection ratios by year, 2009-2014



E. Central Line Insertion Practices

CLIP monitoring assesses infection prevention practices that occur during the insertion of a central line. See methods section for information on monitoring CLIP.

Tables 11 through 13 and Figure 9 show the number of insertions during which all four infection prevention practices were appropriately followed, which is referred to as bundle adherence. A confidence interval is provided to assess any statistically significant differences in bundle adherence between groups.

The analysis presented in Table 11 suggests that, as an occupational group, registered nurses adhere to all four practices during central line insertions significantly more frequently than other occupations, and that, as an occupational group, attending physicians adhered to all four practices during central line insertions significantly less frequently than other occupations. The analysis presented in Table 12 and Figure 9 shows that, of the 12 hospitals with sufficiently robust data to present hospital-specific data, 11 hospitals had similar adherence and one hospital had lower adherence compared with the State adherence percentage.

Table 11. Central line insertion practices adherence percentages by occupation of inserter, Jan 1–Dec 31, 2014

Occupation of Inserter	Insertions that Adhered to Bundle*	Total Number of Insertions	% Adherence *	95% Confidence Interval	Occupation % Compared to State %
Advanced Practice Nurse	428	435	98.4	96.8 , 99.3	Similar
Attending Physician	531	554	95.8	93.9 , 97.3	Lower
Fellow	172	174	98.9	96.3 , 99.8	Similar
Intern/Resident	387	389	99.5	98.3 , 99.9	Similar
Other	34	37	91.9	79.5 , 97.9	Similar
Other Medical Staff	89	92	96.7	91.4 , 99.2	Similar
Physician Assistant	107	109	98.2	94.1 , 99.7	Similar
Registered Nurse	673	674	99.9	99.3 , 99.9	Higher
State Total	2,421	2,464	98.3	97.7 , 98.7	

Note: Other Medical Staff represents other (non-attending) physicians.

* Bundle adherence refers to performing all four infection prevention practices during central line insertion.

Table 12. Central line insertion practices adherence percentages by hospital, Jan 1–Dec 31, 2014

Hospital	Insertions that Adhered to Bundle*	Total Number of Insertions	% Adherence*	95% Confidence Interval	Hospital % Compared to State %
Alice Peck Day Memorial	-	-	-	-	-
Androscoggin Valley	†	†	†	†	†
Catholic Medical Center	133	133	100.0	97.8 , -	Similar
Cheshire Medical Center	†	†	†	†	†
Concord Hospital	265	268	98.9	97.0 , 99.7	Similar
Cottage Hospital	†	†	†	†	†
DHMC	985	996	98.9	98.1 , 99.4	Similar
Elliot Hospital	332	351	94.6	91.8 , 96.6	Lower
Exeter Hospital	135	137	98.5	95.3 , 99.8	Similar
Franklin Regional	†	†	†	†	†
Frisbie Memorial	†	†	†	†	†
Huggins Hospital	43	43	100.0	93.3 , -	Similar
Lakes Region General	39	39	100.0	92.6 , -	Similar
Littleton Regional	†	†	†	†	†
Monadnock Community	†	†	†	†	†
New London Hospital	†	†	†	†	†
Parkland Medical Center	73	73	100.0	96.0 , -	Similar
Portsmouth Regional	62	63	98.4	92.4 , 99.9	Similar
Southern NH Medical	141	141	100.0	97.9 , -	Similar
Spear Memorial Hospital	†	†	†	†	†
St. Joseph Hospital	85	88	96.6	91.0 , 99.1	Similar
The Memorial Hospital	†	†	†	†	†
Upper Connecticut Valley	-	-	-	-	-
Valley Regional Hospital	-	-	-	-	-
Weeks Medical Center	†	†	†	†	†
Wentworth-Douglass	21	21	100.0	86.7 , -	Similar
State Total	2,421	2,464	98.3	97.7 , 98.7	

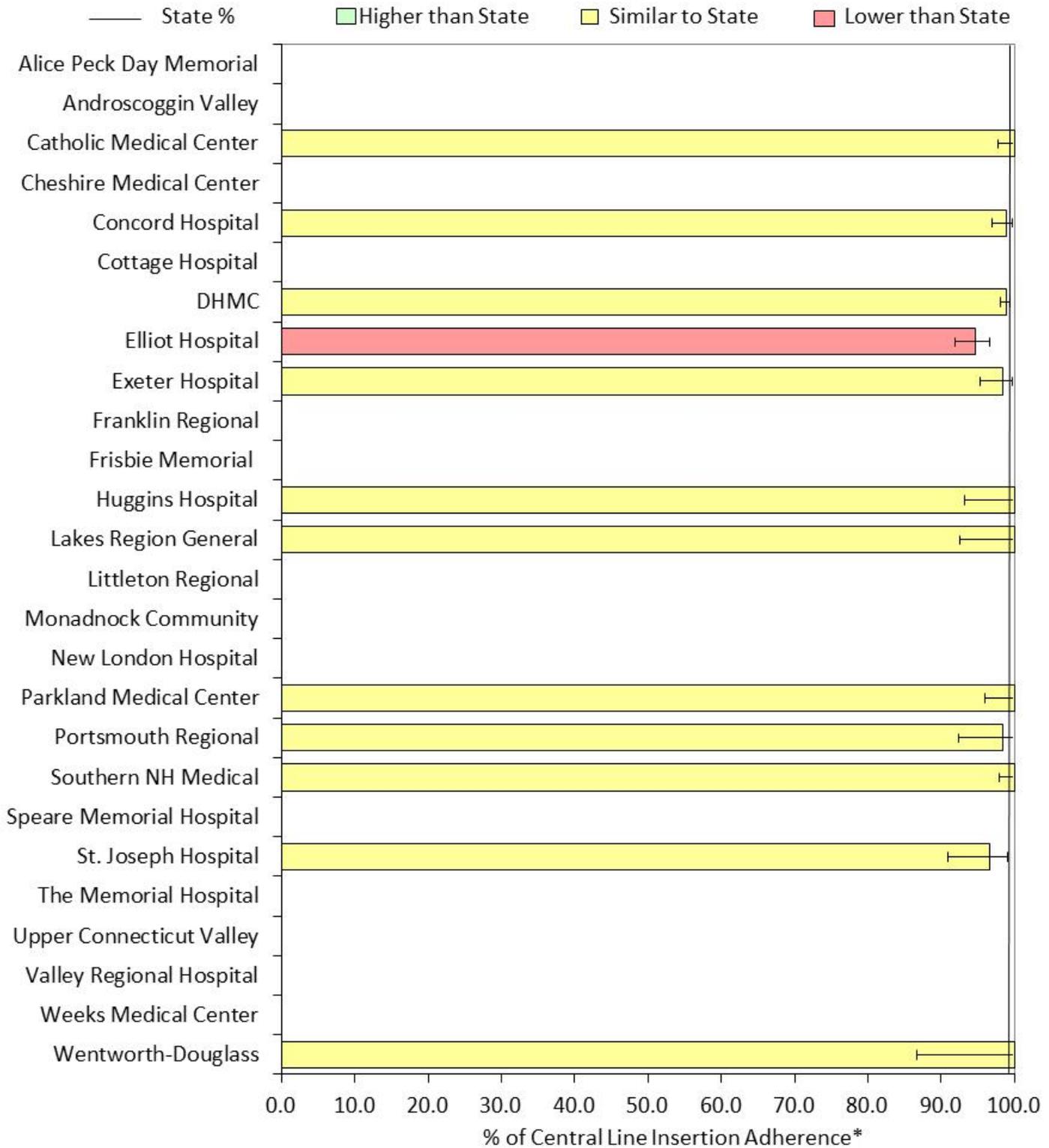
Note: Alice Peck Day Memorial Hospital and Valley Regional Hospital did not have intensive care units in which to monitor insertion practices. Upper Connecticut Valley Hospital did not perform any insertions in the intensive care unit in 2014.

† Data are not shown when fewer than 20 insertions were performed.

* Bundle adherence refers to performing all four infection prevention practices during central line insertion.

- Facility did not report any data contributing to an adherence percentage during this time period.

Figure 9. Central line insertion practices adherence percentages by hospital, Jan 1–Dec 31, 2014



Note: Data are not shown when fewer than 20 insertions were performed. Alice Peck Day Memorial Hospital and Valley Regional Hospital did not have intensive care units in which to monitor insertion practices. Upper Connecticut Valley did not perform any insertions in the intensive care unit in 2014.

* Bundle adherence refers to performing all four infection prevention practices during central line insertion.

Central Line Insertion Practices: Comparison to 2013 Data

Overall, in 2014 the statewide adherence percentage for CLIP was similar to that in 2013. The analysis presented in Table 13 shows that CLIP adherence in 2014 was similar to 2013 for insertions performed by all occupations. Table 14 shows that, of the 12 hospitals with sufficiently robust data to present hospital-specific percentages, one had lower CLIP adherence in 2014 compared with 2013, and 11 had similar CLIP adherence in 2014 compared to 2013.

Table 13. Central line insertion practices adherence percentages by occupation of inserter, comparison between 2013 and 2014

Occupation of Inserter	% Adherence* 2014	95% Confidence Interval 2014	% Adherence* 2013	95% Confidence Interval 2013	2014 Compared to 2013
Advanced Practice Nurse	98.4	96.8 , 99.3	98.0	96.4 , 99.0	Similar
Attending Physician	95.8	93.9 , 97.3	98.5	97.3 , 99.2	Similar
Fellow	98.9	96.3 , 99.8	97.4	94.7 , 99.0	Similar
Intern/Resident	99.5	98.3 , 99.9	97.4	95.4 , 98.8	Similar
Other	91.9	79.5 , 97.9	†	†	N/A
Other Medical Staff	96.7	91.4 , 99.2	97.5	92.0 , 99.6	Similar
Physician Assistant	98.2	94.1 , 99.7	99.1	95.6 , -	Similar
Registered Nurse	99.9	99.3 , 99.9	99.6	98.8 , 99.9	Similar
Student, other	-	-	†	†	N/A
State Total	98.3	97.7 , 98.7	98.4	97.9 , 98.9	Similar

Note: Other Medical Staff represents other (non-attending) physicians.

† Data are not shown when fewer than 20 insertions were performed.

* Bundle adherence refers to performing all four infection prevention practices during central line insertion.

N/A or not applicable: Comparison between two years of data at a given facility is not applicable if no data were reported by that facility and/or if data must be censored for one or more of the years presented.

- Facility did not report any data contributing to an adherence percentage during this time period.

Table 14. Central line insertion practices adherence percentages by hospital, comparison between 2013 and 2014

Hospital	% Adherence* 2014	95% Confidence Interval 2014	% Adherence* 2013	95% Confidence Interval 2013	2014 Compared to 2013
Alice Peck Day Memorial	-	-	-	-	-
Androscoggin Valley	†	†	†	†	†
Catholic Medical Center	100.0	97.8 , -	100.0	98.3 , -	Similar
Cheshire Medical Center	†	†	91.7	75.1 , 98.6	N/A
Concord Hospital	98.9	97.0, 99.7	99.6	98.2 , -	Similar
Cottage Hospital	†	†	†	†	†
DHMC	98.9	98.1 , 99.4	97.8	96.7 , 98.5	Similar
Elliot Hospital	94.6	91.8 , 96.6	99.7	98.4 , -	Lower
Exeter Hospital	98.5	95.3 , 99.8	98.8	96.0 , 99.8	Similar
Franklin Regional	†	†	†	†	†
Frisbie Memorial	†	†	†	†	†
Huggins Hospital	100.0	93.3 , -	100.0	95.4 , -	Similar
Lakes Region General	100.0	92.6 , -	100.0	92.4 , -	Similar
Littleton Regional	†	†	†	†	†
Monadnock Community	†	†	†	†	†
New London Hospital	†	†	†	†	†
Parkland Medical Center	100.0	96.0 , -	100.0	96.8 , -	Similar
Portsmouth Regional	98.4	92.4 , 99.9	97.1	86.7 , 99.9	Similar
Southern NH Medical	100.0	97.9 , -	100.0	98.2 , -	Similar
Speare Memorial Hospital	†	†	†	†	†
St. Joseph Hospital	96.6	91.0 , 99.1	93.3	85.8 , 97.5	Similar
The Memorial Hospital	†	†	†	†	†
Upper Connecticut Valley	-	-	-	-	-
Valley Regional Hospital	-	-	-	-	-
Weeks Medical Center	†	†	†	†	†
Wentworth-Douglass	100.0	86.7 , -	100.0	88.7 , -	Similar
State Total	98.3	97.7 , 98.7	98.4	97.9 , 98.9	Similar

Note: Alice Peck Day Memorial Hospital and Valley Regional Hospital did not have an intensive care unit in which to monitor insertion practices in 2013 or 2014. Upper Connecticut Valley Hospital did not perform any insertions in the intensive care unit in 2013 or 2014.

† Data are not shown when fewer than 20 insertions were performed.

* Bundle adherence refers to performing all four infection prevention practices during central line insertion.

N/A or not applicable: Comparison between two years of data at a given facility is not applicable if no data were reported by that facility and/or if data must be censored for one or more of the years presented.

- Facility did not report any data contributing to an adherence percentage during this time period.

F. Catheter-Associated Urinary Tract Infections

Tables 15 through 17 and Figure 10 show the number of infections that were identified in adult and pediatric ICU at NH hospitals. The analysis presented in Table 16 shows that among the 24 hospitals that had sufficiently robust data to present ICU rates, 25 ICU observed similar infections as predicted and two ICU observed a higher number of infections, based on national data. See methods for additional information on data collection.

Statewide Catheter-Associated Urinary Tract Infections Rates

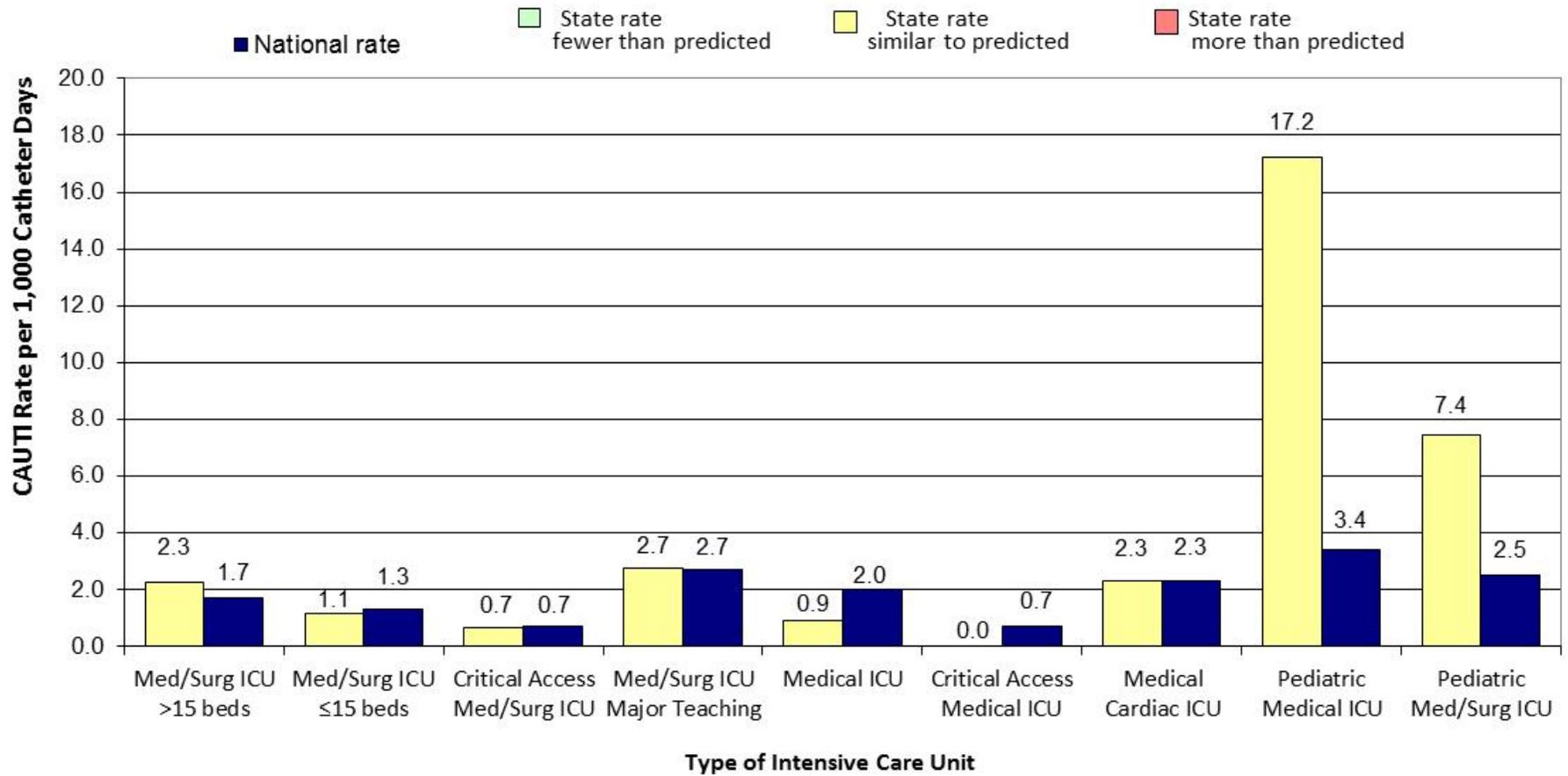
Overall, the statewide rates for CAUTI reported in NH ICU were similar to the national rates.

Table 15. Statewide rates for catheter-associated urinary tract infections, Jan 1–Dec 31, 2014

CAUTI Rates	Infections	Catheter days	State Rate	National Rate	p-value	State Rate Compared to National Rate
Medical/Surgical ICU >15 beds (n=4)	24	10,544	2.3	1.7	0.158	Similar
Medical/Surgical ICU ≤15 beds (n=7)	10	8,698	1.1	1.3	0.787	Similar
Critical Access Medical/Surgical ICU (n=8)	1	1,485	0.7	0.7	1.00	Similar
Medical/Surgical ICU - Major Teaching Hospital (n=1)	23	8,384	2.7	2.7	0.863	Similar
Medical ICU (n=2)	1	1,076	0.9	2.0	0.466	Similar
Critical Access Medical ICU (n=2)	0	400	0.0	0.7	0.746	Similar
Medical Cardiac ICU (n=1)	5	2,158	2.3	2.3	0.964	Similar
Pediatric Medical ICU (n=1)	1	58	17.2	3.4	0.200	Similar
Pediatric Medical Surgical ICU (n=1)	3	404	7.4	2.5	0.099	Similar

Note: For CAUTI, denominator is number of catheter days. CAUTI rate is the number of infections per 1,000 catheter days.

Figure 10. Statewide rates for catheter-associated urinary tract infections, Jan 1–Dec 31, 2014



Med/Surg = medical surgical

ICU = intensive care unit

Table 16. Catheter-associated urinary tract infection rates, Jan 1–Dec 31, 2014

Hospital	Unit Type	Infections	Catheter days	Hospital Rate	National Rate	P-value	Hospital Rate Compared to National Rate
Androscoggin Valley	Medical ICU	0	269	0.0	0.7	0.821	Similar
Catholic Medical	Med/Surg ICU	3	3,972	0.8	1.7	0.134	Similar
Cheshire Medical	Medical ICU	1	593	1.7	2.0	0.956	Similar
Concord Hospital	Med/Surg ICU	13	2,874	4.5	1.7	0.002	Higher
Cottage Hospital	Med/Surg ICU	0	51	0.0	0.7	0.956	Similar
DHMC	Cardiac ICU	5	2,158	2.3	2.3	0.908	Similar
	Med/Surg ICU	23	8,384	2.7	2.7	0.863	Similar
	Ped Med/Surg ICU	3	404	7.4	2.5	0.099	Similar
Elliot Hospital	Med/Surg ICU	7	2,125	3.3	1.7	0.104	Similar
	Ped Medical	1	58	17.2	3.4	0.200	Similar
Exeter Hospital	Med/Surg ICU	6	1,394	4.3	1.3	0.012	Higher
Franklin Regional	Med/Surg ICU	0	341	0.0	0.7	0.779	Similar
Frisbie Memorial	Med/Surg ICU	0	466	0.0	1.3	0.553	Similar
Huggins Hospital	Med/Surg ICU	0	297	0.0	0.7	0.804	Similar
Lakes Region General	Med/Surg ICU	1	1,456	0.7	1.3	0.605	Similar
Littleton Regional	Med/Surg ICU	0	147	0.0	0.7	0.897	Similar
Monadnock Hospital	Med/Surg ICU	0	117	0.0	0.7	0.917	Similar
New London Hospital	Med/Surg ICU	0	272	0.0	0.7	0.819	Similar
Parkland Medical	Medical ICU	0	483	0.0	2.0	0.373	Similar
	Med/Surg ICU	0	359	0.0	1.3	0.634	Similar
Portsmouth Regional	Med/Surg ICU	1	2,795	0.4	1.3	0.159	Similar
Southern NH Medical	Med/Surg ICU	1	1,573	0.6	1.3	0.541	Similar
Speare Memorial	Med/Surg ICU	1	205	4.9	0.7	0.156	Similar
St. Joseph Hospital	Med/Surg ICU	0	816	0.0	1.3	0.354	Similar
The Memorial Hospital	Medical ICU	0	131	0.0	0.7	0.908	Similar
Weeks Medical Center	Med/Surg ICU	0	55	0.0	0.7	0.960	Similar
Wentworth-Douglass	Med/Surg ICU	2	1,412	1.4	1.3	0.804	Similar

Note: Alice Peck Day Memorial Hospital and Valley Regional Hospital did not have intensive care units in which to monitor infections. Upper Connecticut Valley Hospital did not have any patients with indwelling catheters in place in the ICU in 2014. Parkland Medical Center changed the categorization of its ICU halfway through 2014.

† Data are not shown for hospitals with fewer than 50 catheter days. Med/Surg = medical surgical ICU = intensive care unit Ped=Pediatric

Catheter-Associated Urinary Tract Infections Standardized Infection Ratios

Although the observed number of CAUTI was 26% higher than predicted based on national data, this difference is not statistically significant and should be considered similar to national data. The analysis presented in Table 17 shows that nine hospitals observed a similar number of infections as predicted and three hospitals observed more infections than predicted based on national data.

Table 17. Catheter-associated urinary tract infections standardized infection ratios, Jan 1–Dec 31, 2014

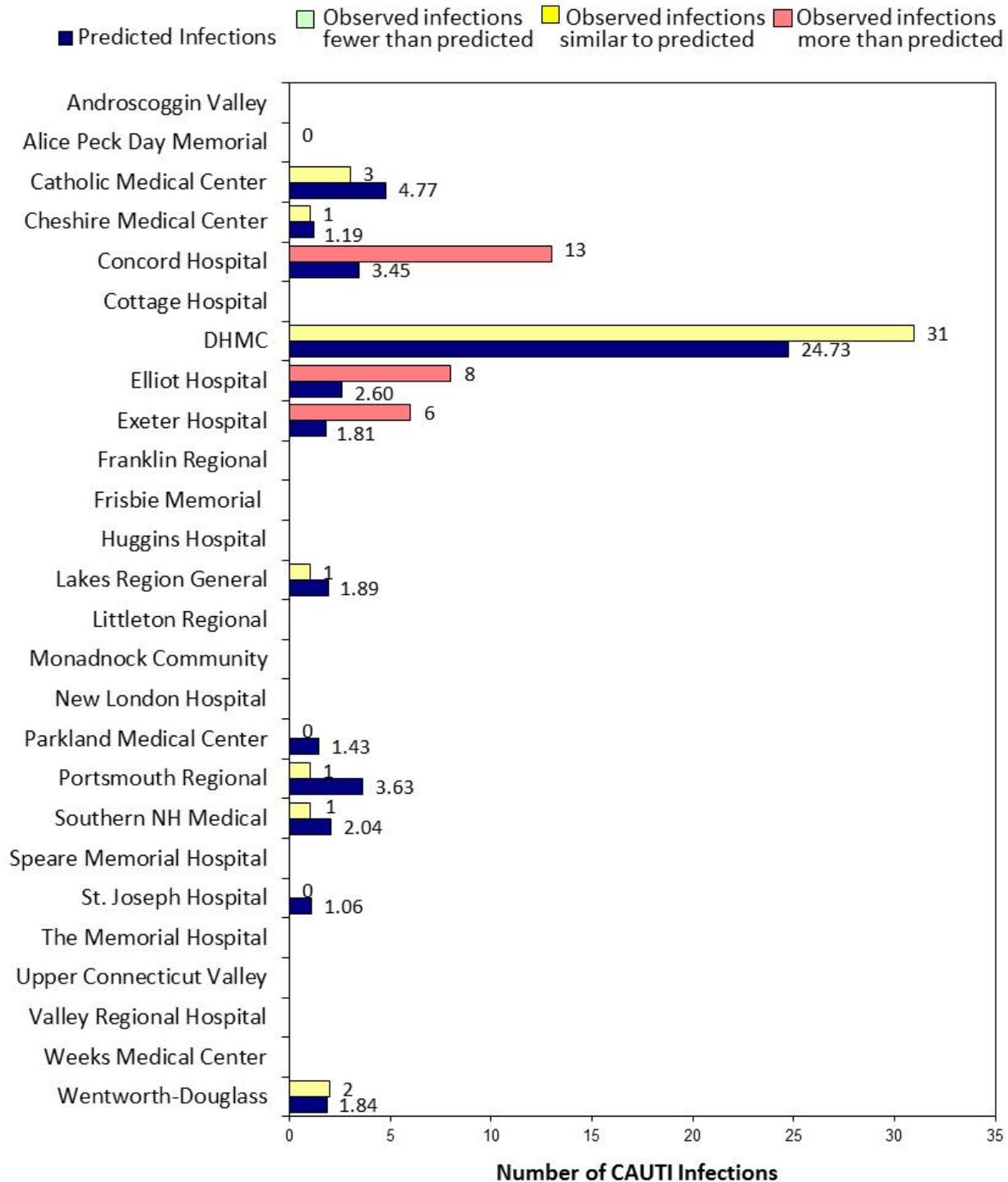
	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted Number of Infections
Alice Peck Day Memorial	-	-	-	-	-
Androscoggin Valley	†	†	†	†	†
Catholic Medical Center	3	4.77	0.63	0.16 , 1.71	Similar
Cheshire Medical Center	1	1.19	0.84	0.04 , 4.16	Similar
Concord Hospital	13	3.45	3.77	2.10 , 6.28	Higher
Cottage Hospital	†	†	†	†	†
DHMC	31	24.73	1.25	0.87 , 1.76	Similar
Elliot Hospital	8	2.60	3.08	1.43 , 5.85	Higher
Exeter Hospital	6	1.81	3.31	1.34 , 6.89	Higher
Franklin Regional	†	†	†	†	†
Frisbie Memorial	†	†	†	†	†
Huggins Hospital	†	†	†	†	†
Lakes Region General	1	1.89	0.53	0.03 , 2.61	Similar
Littleton Regional	†	†	†	†	†
Monadnock Community	†	†	†	†	†
New London Hospital	†	†	†	†	†
Parkland Medical Center	0	1.43	0.00	- , 2.09	Similar
Portsmouth Regional	1	3.63	0.28	0.01 , 1.36	Similar
Southern NH Medical	1	2.04	0.49	0.02 , 2.41	Similar
Speare Memorial Hospital	†	†	†	†	†
St. Joseph Hospital	0	1.06	0.00	- , 2.82	Similar
The Memorial Hospital	†	†	†	†	†
Upper Connecticut Valley	-	-	-	-	-
Valley Regional Hospital	-	-	-	-	-
Weeks Medical Center	†	†	†	†	†
Wentworth-Douglass	2	1.84	1.09	0.18 , 3.60	Similar
State Total	68	53.78	1.26	0.99 , 1.59	Similar

Note: Alice Peck Day Memorial and Valley Regional Hospital did not have intensive care units in which to monitor infections. Upper Connecticut Valley Hospital did not have any patients with indwelling urinary catheters in place in the ICU in 2014.

† Data are not shown for hospitals with less than one predicted infection.

- Facility did not report any data contributing to a SIR during this time period.

Figure 11. Catheter-associated urinary tract infections standardized infection ratios, Jan 1–Dec 31, 2014



Note: Data are not shown for hospitals with less than one predicted infection. Alice Peck Day Memorial Hospital and Valley Regional Hospital did not have intensive care units in which to monitor infections. Upper Connecticut Valley did not have any patients with indwelling urinary catheters in place in the ICU in 2014.

Catheter-Associated Urinary Tract Infections: Comparison to 2013 Data

Overall, in 2014 the statewide CAUTI SIR was similar to 2013. The analysis in Table 18 shows that all 12 hospitals for which data are shown observed a similar number of infections in 2014 and 2013. Figure 12 shows that CAUTI SIR has varied since 2012 and higher than predicted based on national data.

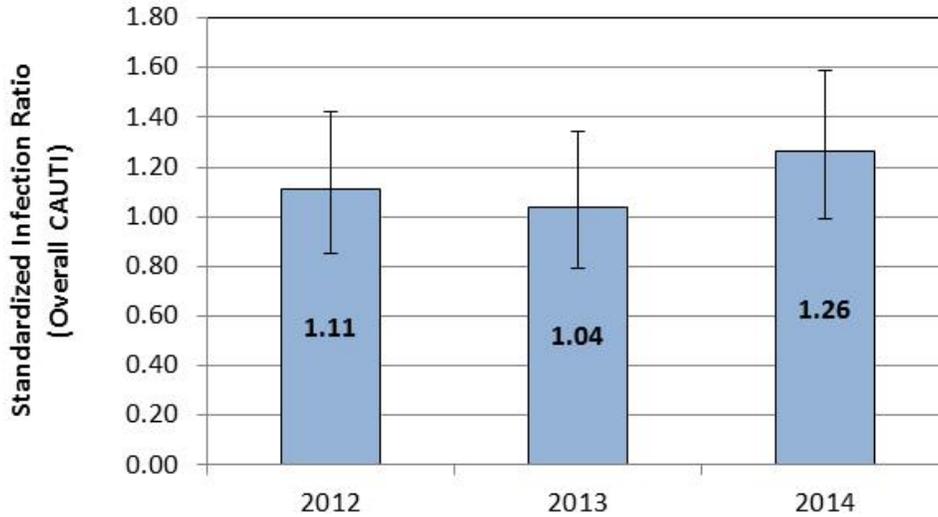
Table 18. Catheter-associated urinary tract infections standardized infection ratios, comparison between 2013 and 2014

Hospital	Standardized Infection Ratio (SIR) 2014	95% Confidence Interval 2014	Standardized Infection Ratio (SIR) 2013	95% Confidence Interval 2013	2014 Compared to 2013
Alice Peck Day Memorial	-	-	-	-	-
Androscoggin Valley	†	†	†	†	†
Catholic Medical Center	0.63	0.16, 1.71	1.35	0.55, 2.81	Similar
Cheshire Medical Center	0.84	0.04, 4.16	0.00	-, 2.85	Similar
Concord Hospital	3.77	2.10, 6.28	2.38	1.16, 4.36	Similar
Cottage Hospital	†	†	†	†	†
DHMC	1.25	0.87, 1.76	1.07	0.72, 1.54	Similar
Elliot Hospital	3.08	1.43, 5.85	2.53	1.03, 5.26	Similar
Exeter Hospital	3.31	1.34, 6.89	1.04	0.17, 3.43	Similar
Franklin Regional	†	†	†	†	†
Frisbie Memorial	†	†	†	†	†
Huggins Hospital	†	†	†	†	†
Lakes Region General	0.53	0.03, 2.61	0.00	-, 1.77	Similar
Littleton Regional	†	†	†	†	†
Monadnock Community	†	†	†	†	†
New London Hospital	†	†	†	†	†
Parkland Medical Center	0.00	-, 2.09	0.00	-, 2.91	Similar
Portsmouth Regional	0.28	0.01, 1.36	0.74	0.19, 2.02	Similar
Southern NH Medical	0.49	0.02, 2.41	0.93	0.16, 3.06	Similar
Speare Memorial Hospital	†	†	†	†	†
St. Joseph Hospital	0.00	-, 2.82	0.00	-, 2.98	Similar
The Memorial Hospital	†	†	†	†	†
Upper Connecticut Valley	-	-	-	-	-
Valley Regional Hospital	-	-	-	-	-
Weeks Medical Center	†	†	†	†	†
Wentworth-Douglass	1.09	0.18, 3.60	0.00	-, 1.73	Similar
State Total	1.26	0.99, 1.59	1.04	0.79, 1.34	Similar

Note: Alice Peck Day Memorial and Valley Regional did not have an intensive care unit in which to monitor infections in 2013 or 2014. Upper Connecticut Valley Hospital did not have any patients with indwelling catheters in place in the ICU in 2014. † Data are not shown for hospitals with less than one predicted infection.

- Facility did not report any data contributing to a SIR during this time period.

Figure 12. Overall catheter-associated urinary tract infections standardized infection ratios by year, 2012-2014



G. Surgical Site Infections

Tables 19-24 and Figures 13-17 below show the number of SSI following the four monitored procedures reported by each acute care hospital in NH. Overall, the observed number of SSI was 22% fewer than predicted based on national data. The analysis presented in Table 19 shows that two hospitals observed fewer SSI than predicted, two hospitals observed more SSI than predicted, and 14 hospitals observed a similar number of SSI as predicted. For CABG procedures (Table 21), one hospital observed fewer SSI than predicted, and three hospitals observed a similar number of infections as predicted. For colon procedures (Table 22), two hospitals observed fewer infections than predicted, two hospitals observed more SSI than predicted, and 10 hospitals observed a similar number of infections as predicted. For abdominal hysterectomy procedures (Table 23), all eight hospitals observed a similar number of infections as predicted based on national data. For knee arthroplasty procedures (Table 24), two hospitals observed fewer infections and eight hospitals observed a similar number of infections as predicted based on national data.

This 2014 report does not display SSI rates due to a change in NHSN analysis features, as CDC transitions from risk-adjusted rates to SIR. SSI data are presented throughout this report as SIR. This allows more robust adjustment for underlying patient or hospital factors. The SSI SIR is calculated using logistic regression modeling, which provides better risk adjustment and more appropriate comparisons. See Appendix 1 for technical notes and more detail regarding the SIR.

Post-discharge Surveillance for Surgical Site Infections

Hospitals do not use a standard method to identify infections once a patient has been discharged (known as “post-discharge surveillance”). This poses a challenge for data interpretation, because a higher SSI rate (for example) at a given hospital may represent either poor infection prevention practices or, conversely, a better system for identifying infections. Table 25 shows the percentage

of SSI identified through post-discharge surveillance at each acute care hospital in NH. Of the 20 hospitals with sufficiently robust data, one hospital identified more SSI through post-discharge surveillance, 18 hospitals identified a similar number of SSI through post-discharge surveillance, and one hospital identified fewer SSI through post-discharge surveillance when compared to the State rolling average. Out of 244 SSI reported 2013-2014, 36.4% (88) were detected during admission, 0.8% (2) were detected during readmission at another facility, 32.0% (78) were detected during readmission to the original facility where the procedure took place, and 31.1% (76) were detected post-discharge. Most of the infections detected post-discharge were classified as superficial infections (50.0%); 30.3% (23) were deep and 19.7% (15) were organ/space. Of the 76 infections detected post-discharge, 46.1% (35) were colon procedures, 11.8% (9) were CABG procedures, 25.0% (19) were abdominal hysterectomy procedures, and 17.1% (13) were knee arthroplasty procedures. NH hospital infection prevention staff rely primarily on follow-up letters to surgeons, culture reports, and outpatient clinic notes as forms of post-discharge surveillance. Other methods include patient letters and communication with other healthcare facilities.

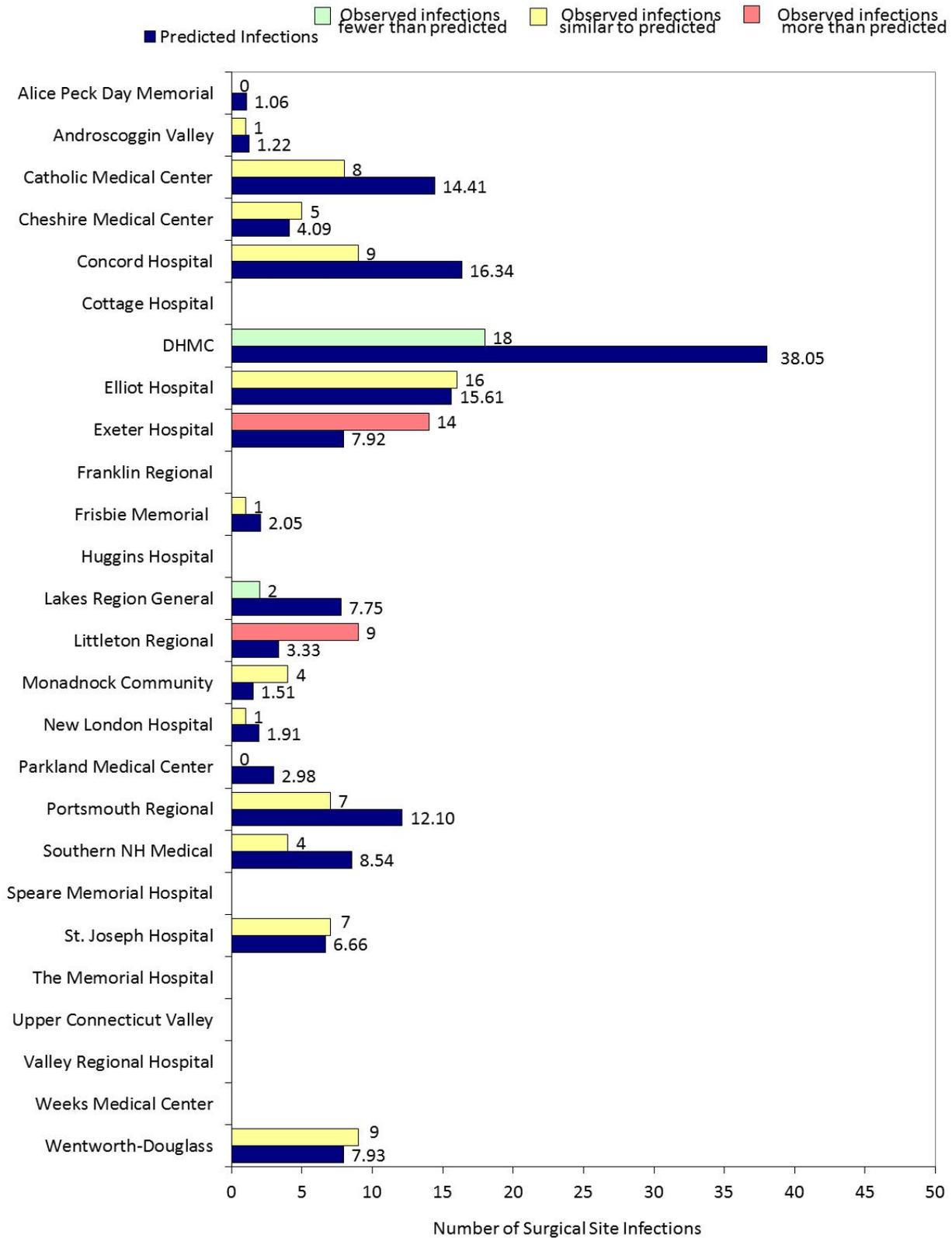
Table 19. Surgical site infections standardized infection ratios, Jan 1–Dec 31, 2014

Hospital	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted Number of Infections
Alice Peck Day Memorial	0	1.06	0.00	- , 2.83	Similar
Androscoggin Valley	1	1.22	0.82	0.04 , 4.04	Similar
Catholic Medical Center	8	14.41	0.56	0.26 , 1.05	Similar
Cheshire Medical Center	5	4.09	1.22	0.45 , 2.71	Similar
Concord Hospital	9	16.34	0.55	0.27 , 1.01	Similar
Cottage Hospital	†	†	†	†	†
DHMC	18	38.05	0.47	0.29 , 0.73	Lower
Elliot Hospital	16	15.61	1.03	0.61 , 1.63	Similar
Exeter Hospital	14	7.92	1.77	1.01 , 2.89	Higher
Franklin Regional	†	†	†	†	†
Frisbie Memorial	1	2.05	0.49	0.02 , 2.41	Similar
Huggins Hospital	†	†	†	†	†
Lakes Region General	2	7.75	0.26	0.04 , 0.85	Lower
Littleton Regional	9	3.33	2.70	1.32 , 4.96	Higher
Monadnock Community	4	1.51	2.64	0.84 , 6.38	Similar
New London Hospital	1	1.91	0.52	0.03 , 2.58	Similar
Parkland Medical Center	0	2.98	0.00	- , 1.01	Similar
Portsmouth Regional	7	12.10	0.58	0.25 , 1.14	Similar
Southern NH Medical	4	8.54	0.47	0.15 , 1.13	Similar
Speare Memorial Hospital	†	†	†	†	†
St. Joseph Hospital	7	6.66	1.05	0.46 , 2.08	Similar
The Memorial Hospital	†	†	†	†	†
Upper Connecticut Valley	-	-	-	-	-
Valley Regional Hospital	†	†	†	†	†
Weeks Medical Center	†	†	†	†	†
Wentworth-Douglass	9	7.93	1.14	0.55 , 2.08	Similar
State Total	124	158.29	0.78	0.65 , 0.93	Lower

† Data are not shown for hospitals with less than one predicted infection.

- Facility did not perform any of the four procedures being monitored during 2014

Figure 13. Surgical site infections standardized infection ratios, Jan 1–Dec 31, 2014



Note: Data are not shown for hospitals with less than one predicted infection.

Table 20. Surgical site infections standardized infection ratios, comparison between 2013 and 2014

Hospital	Standardized Infection Ratio (SIR) 2014	95% Confidence Interval 2014	Standardized Infection Ratio (SIR) 2013	95% Confidence Interval 2013	2014 Compared to 2013
Alice Peck Day Memorial	0.00	-, 2.83	†	†	N/A
Androscoggin Valley	0.82	0.04, 4.04	0.00	-, 2.82	Similar
Catholic Medical Center	0.56	0.26, 1.05	0.31	0.10, 0.76	Similar
Cheshire Medical Center	1.22	0.45, 2.71	0.46	0.08, 1.51	Similar
Concord Hospital	0.55	0.27, 1.01	0.89	0.52, 1.44	Similar
Cottage Hospital	†	†	†	†	†
DHMC	0.47	0.29, 0.73	0.65	0.44, 0.93	Similar
Elliot Hospital	1.03	0.61, 1.63	0.85	0.50, 1.38	Similar
Exeter Hospital	1.77	1.01, 2.89	0.70	0.26, 1.54	Similar
Franklin Regional	†	†	†	†	†
Frisbie Memorial	0.49	0.02, 2.41	0.00	-, 1.78	Similar
Huggins Hospital	†	†	0.00	-, 2.77	N/A
Lakes Region General	0.26	0.04, 0.85	0.15	0.01, 0.72	Similar
Littleton Regional	2.70	1.32, 4.96	0.64	0.11, 2.13	Similar
Monadnock Community	2.64	0.84, 6.38	0.00	-, 1.96	Similar
New London Hospital	0.52	0.03, 2.58	0.00	-, 2.08	Similar
Parkland Medical Center	0.00	-, 1.01	1.17	0.43, 2.59	Similar
Portsmouth Regional	0.58	0.25, 1.14	0.42	0.15, 0.93	Similar
Southern NH Medical	0.47	0.15, 1.13	0.60	0.24, 1.24	Similar
Speare Memorial Hospital	†	†	†	†	†
St. Joseph Hospital	1.05	0.46, 2.08	1.24	0.60, 2.27	Similar
The Memorial Hospital	†	†	0.85	0.04, 4.20	N/A
Upper Connecticut Valley	-	-	-	-	-
Valley Regional Hospital	†	†	†	†	†
Weeks Medical Center	†	†	0.00	-, 2.70	N/A
Wentworth-Douglass	1.14	0.55, 2.08	0.94	0.41, 1.87	Similar
State Total	0.78	0.65, 0.93	0.68	0.57, 0.82	Similar

† Data are not shown for hospitals with less than one predicted infection.

- Facility did not perform any of the four procedures being monitored during 2013 or 2014

N/A or not applicable: Comparison between two years of data at a given facility is not applicable if no data were reported by that facility and/or if data must be censored for one or more of the years presented.

Table 21. Coronary artery bypass graft procedure-associated surgical site infections standardized infection ratios, Jan 1–Dec 31, 2014

Hospital	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted Number of Infections
Catholic Medical Center	2	7.21	0.28	0.05 , 0.92	Lower
Concord Hospital	1	1.50	0.67	0.03 , 3.29	Similar
DHMC	1	4.57	0.22	0.01 , 1.08	Similar
Portsmouth Regional	1	4.47	0.22	0.01 , 1.10	Similar
State Total	5	17.75	0.28	0.10 , 0.62	Lower

* There were no secondary infections in 2014. Secondary infections at the donor/graft site (where the vessel was taken from) are not included in the SIR, and are not included in the table above.

Figure 14. Coronary artery bypass graft procedure-associated surgical site infections standardized infection ratios, Jan 1–Dec 31, 2014

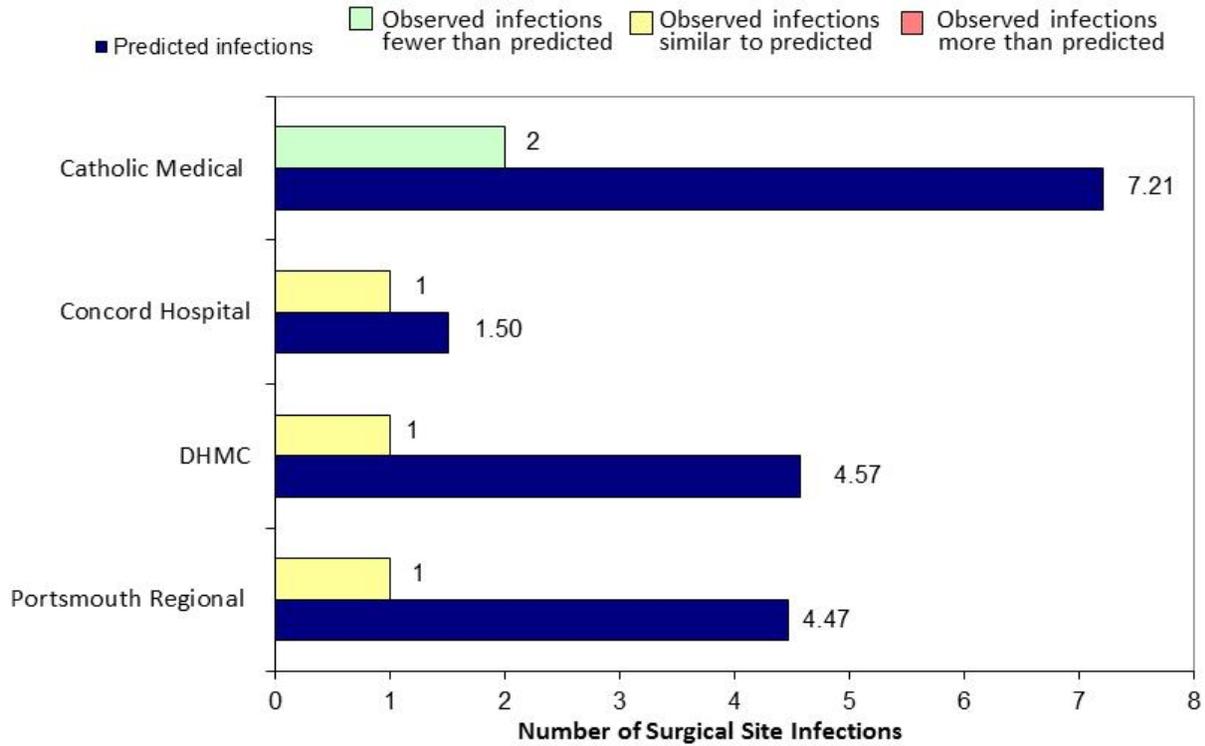


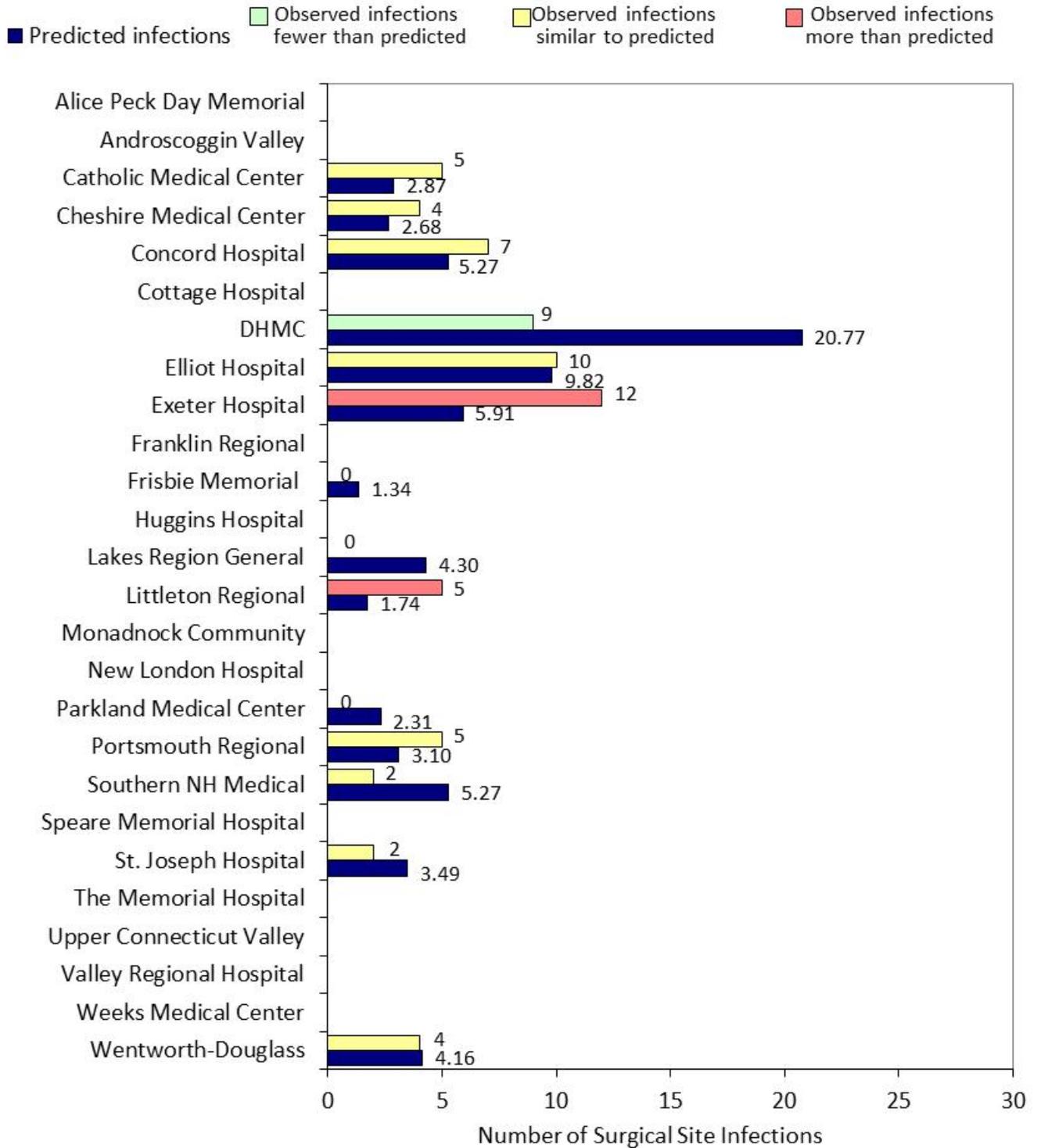
Table 22. Colon procedure-associated surgical site infections standardized infection ratios, Jan 1–Dec 31, 2014

Hospital	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted Number of Infections
Alice Peck Day Memorial	†	†	†	†	†
Androscoggin Valley	†	†	†	†	†
Catholic Medical Center	5	2.87	1.74	0.64 , 3.87	Similar
Cheshire Medical Center	4	2.68	1.49	0.47 , 3.60	Similar
Concord Hospital	7	5.27	1.33	0.58 , 2.63	Similar
Cottage Hospital	†	†	†	†	†
DHMC	9	20.77	0.43	0.21 , 0.80	Lower
Elliot Hospital	10	9.82	1.02	0.52 , 1.82	Similar
Exeter Hospital	12	5.91	2.03	1.10 , 3.45	Higher
Franklin Regional	†	†	†	†	†
Frisbie Memorial	0	1.34	0.00	- , 2.24	Similar
Huggins Hospital	†	†	†	†	†
Lakes Region General	0	4.30	0.00	- , 0.70	Lower
Littleton Regional	5	1.74	2.87	1.05 , 6.36	Higher
Monadnock Community	†	†	†	†	†
New London Hospital	†	†	†	†	†
Parkland Medical Center	0	2.31	0.00	- , 1.30	Similar
Portsmouth Regional	5	3.10	1.62	0.59 , 3.58	Similar
Southern NH Medical	2	5.27	0.38	0.06 , 1.25	Similar
Speare Memorial Hospital	†	†	†	†	†
St. Joseph Hospital	2	3.49	0.57	0.10 , 1.90	Similar
The Memorial Hospital	†	†	†	†	†
Upper Connecticut Valley	-	-	-	-	-
Valley Regional Hospital	†	†	†	†	†
Weeks Medical Center	†	†	†	†	†
Wentworth-Douglass	4	4.16	0.96	0.31 , 2.32	Similar
State Total	74	78.71	0.94	0.74 , 1.17	Similar

† Data are not shown for hospitals with less than one predicted infection.

- Facility did not perform this procedure during 2014

Figure 15. Colon procedure-associated surgical site infections standardized infection ratios, Jan 1–Dec 31, 2014



Note: Data are not shown for hospitals with less than one predicted infection.

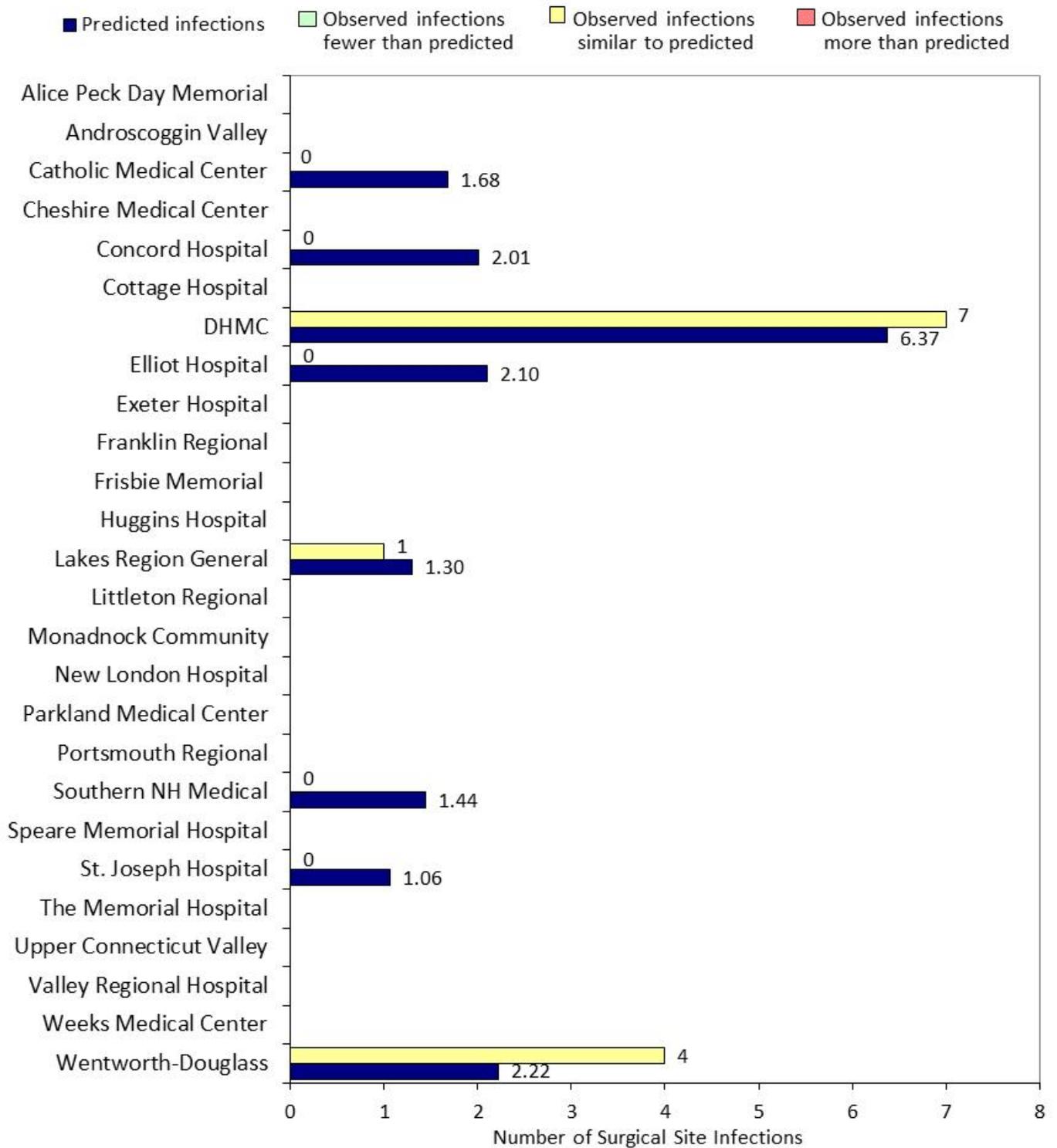
Table 23. Abdominal hysterectomy procedure-associated surgical site infections standardized infection ratios, Jan 1–Dec 31, 2014

Hospital	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted Number of Infections
Alice Peck Day Memorial	†	†	†	†	†
Androscoggin Valley	†	†	†	†	†
Catholic Medical Center	0	1.68	0.00	-, 1.79	Similar
Cheshire Medical Center	†	†	†	†	†
Concord Hospital	0	2.01	0.00	-, 1.49	Similar
Cottage Hospital	†	†	†	†	†
DHMC	7	6.37	1.10	0.48 , 2.17	Similar
Elliot Hospital	0	2.10	0.00	-, 1.43	Similar
Exeter Hospital	†	†	†	†	†
Franklin Regional	†	†	†	†	†
Frisbie Memorial	†	†	†	†	†
Huggins Hospital	†	†	†	†	†
Lakes Region General	1	1.30	0.77	0.04 , 3.81	Similar
Littleton Regional	†	†	†	†	†
Monadnock Community	†	†	†	†	†
New London Hospital	†	†	†	†	†
Parkland Medical Center	†	†	†	†	†
Portsmouth Regional	†	†	†	†	†
Southern NH Medical	0	1.44	0.00	-, 2.08	Similar
Speare Memorial Hospital	†	†	†	†	†
St. Joseph Hospital	0	1.06	0.00	-, 2.82	Similar
The Memorial Hospital	†	†	†	†	†
Upper Connecticut Valley	-	-	-	-	-
Valley Regional Hospital	†	†	†	†	†
Weeks Medical Center	-	-	-	-	-
Wentworth-Douglass	4	2.22	1.80	0.57 , 4.35	Similar
State Total	17	22.91	0.74	0.45 , 1.16	Similar

† Data are not shown for hospitals with less than one predicted infection.

- Facility did not perform this procedure during 2014

Figure 16. Abdominal hysterectomy procedure-associated surgical site infections standardized infection ratios, Jan 1–Dec 31, 2014



Note: Data are not shown for hospitals with less than one predicted infection

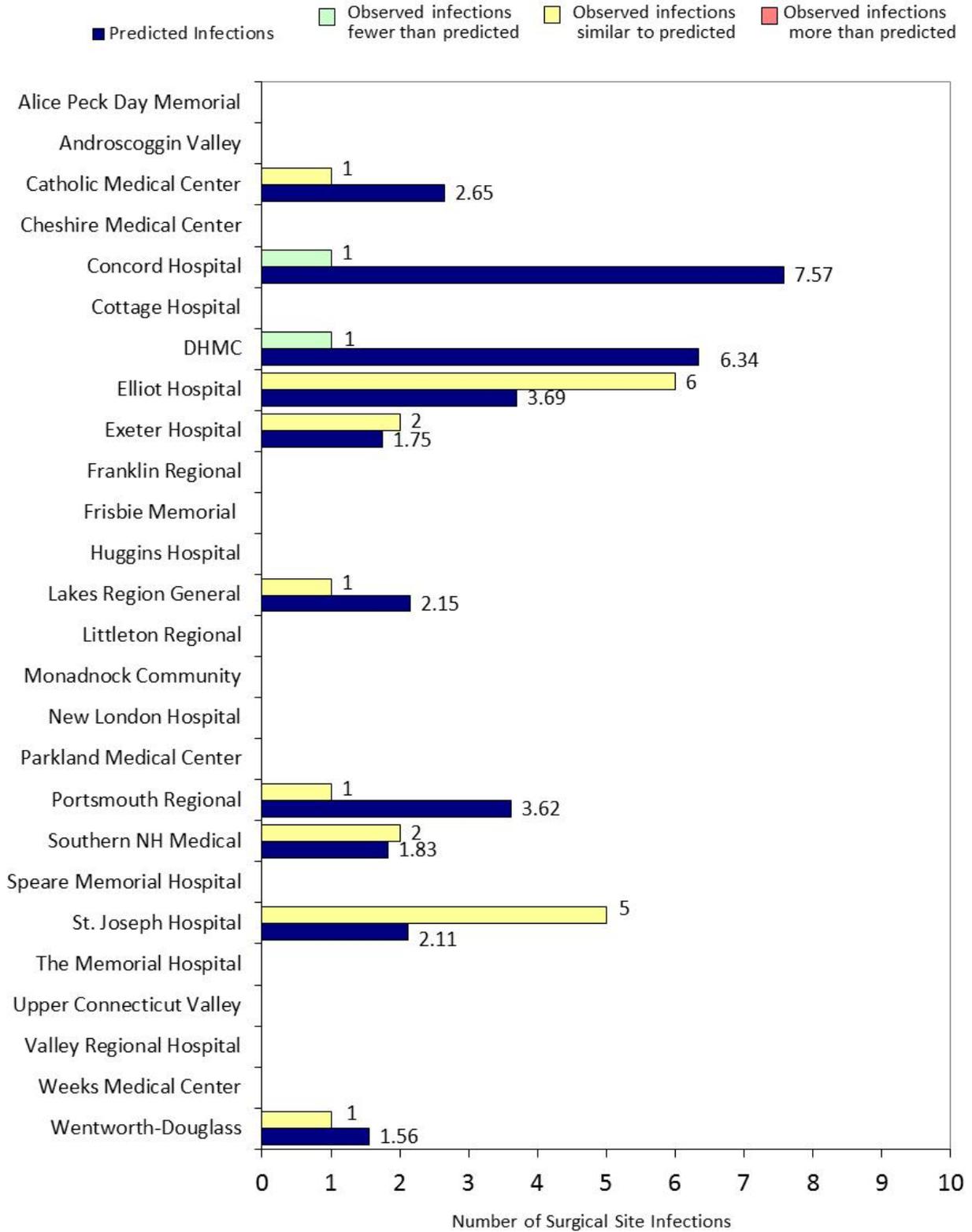
Table 24. Knee arthroplasty procedure-associated surgical site infections standardized infection ratios, Jan 1–Dec 31, 2014

Hospital	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted Number of Infections
Alice Peck Day Memorial	†	†	†	†	†
Androscoggin Valley	†	†	†	†	†
Catholic Medical Center	1	2.65	0.38	0.02 , 1.86	Similar
Cheshire Medical Center	†	†	†	†	†
Concord Hospital	1	7.57	0.13	0.01 , 0.65	Lower
Cottage Hospital	†	†	†	†	†
DHMC	1	6.34	0.16	0.01 , 0.78	Lower
Elliot Hospital	6	3.69	1.63	0.66 , 3.39	Similar
Exeter Hospital	2	1.75	1.14	0.19 , 3.77	Similar
Franklin Regional	-	-	-	-	-
Frisbie Memorial	†	†	†	†	†
Huggins Hospital	†	†	†	†	†
Lakes Region General	1	2.15	0.47	0.02 , 2.29	Similar
Littleton Regional	†	†	†	†	†
Monadnock Community	†	†	†	†	†
New London Hospital	†	†	†	†	†
Parkland Medical Center	†	†	†	†	†
Portsmouth Regional	1	3.62	0.28	0.01 , 1.36	Similar
Southern NH Medical	2	1.83	1.09	0.18 , 3.61	Similar
Speare Memorial Hospital	†	†	†	†	†
St. Joseph Hospital	5	2.11	2.37	0.87 , 5.25	Similar
The Memorial Hospital	†	†	†	†	†
Upper Connecticut Valley	-	-	-	-	-
Valley Regional Hospital	†	†	†	†	†
Weeks Medical Center	†	†	†	†	†
Wentworth-Douglass	1	1.56	0.64	0.03 , 3.17	Similar
State Total	28	38.92	0.72	0.49 , 1.03	Similar

† Data are not shown for hospitals with less than one predicted infection

- Facility did not perform this procedure during 2014

Figure 17. Knee arthroplasty procedure-associated surgical site infections standardized infection ratios, Jan 1–Dec 31, 2014



Note: Data are not shown for hospitals with less than one predicted infection

Overall Surgical Site Infections: Comparison to 2013 Data

Overall, in 2014 the statewide SSI SIR was similar to 2013. The analysis presented in Table 20 shows that all 17 hospitals for which data are shown observed similar numbers of infections in 2014 and 2013.

Figures 18-21 show the SIR for each procedure that was reportable from 2010-2014. There was a decrease in the SIR for CABG procedures (Figure 18) and an increase in the SIR for colon (Figure 19), abdominal hysterectomy (Figure 20), and knee arthroplasty (Figure 21) procedures from 2013 to 2014; however, these differences are not statistically significant. From 2010-2014, NH had lower SSI SIR than predicted when compared to national data, and no significant change across reporting years.

There was no statistically significant change between years in overall SIR for SSI or for individual SSI (CABG, colon, abdominal hysterectomy, and knee arthroplasty).

Figure 18. Overall surgical site infection standardized infection ratios by year, 2010-2014

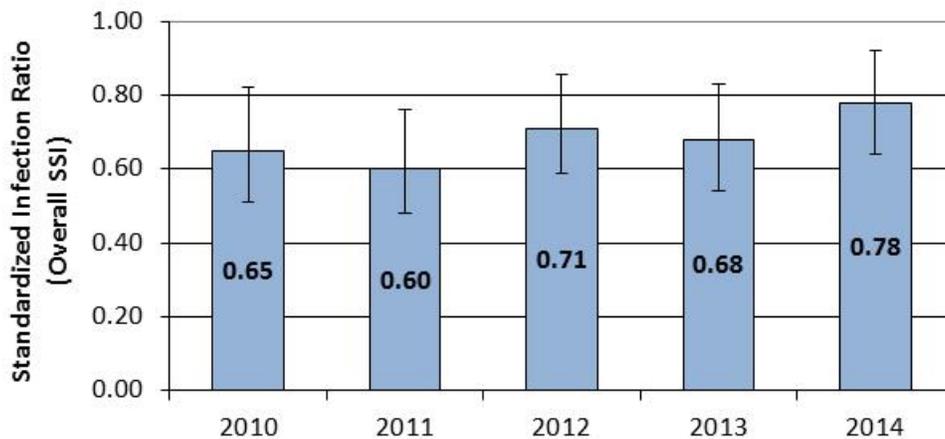


Figure 19. Overall coronary artery bypass graft procedure standardized infection ratios by year, 2010-2014

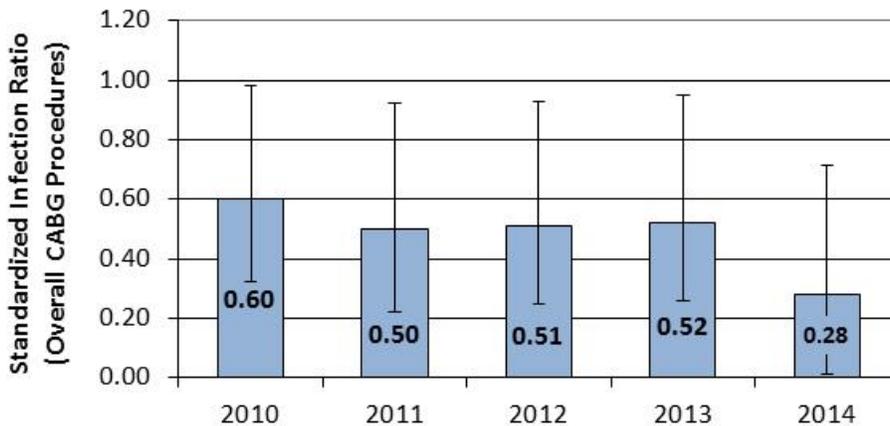


Figure 20. Overall colon procedure standardized infection ratios by year, 2010-2014

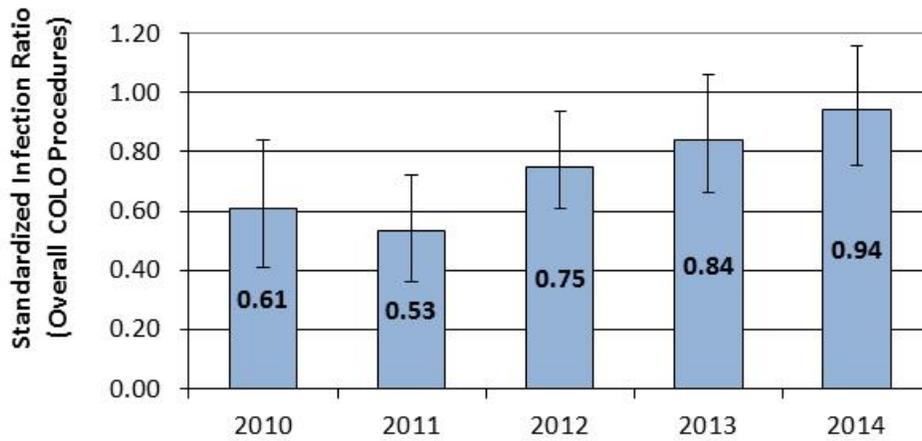
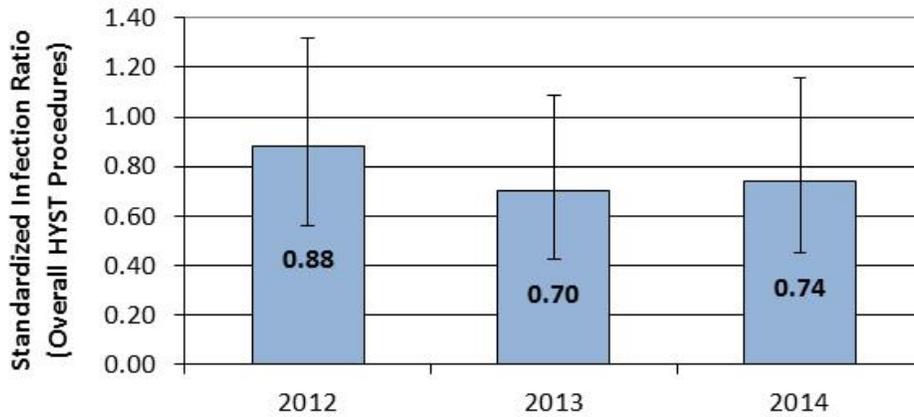


Figure 21. Overall abdominal hysterectomy standardized infection ratios by year, 2012-2014



Note: SSI following abdominal hysterectomy procedures were not reportable until 2012.

Figure 22. Overall knee arthroplasty standardized infection ratios by year, 2010-2014

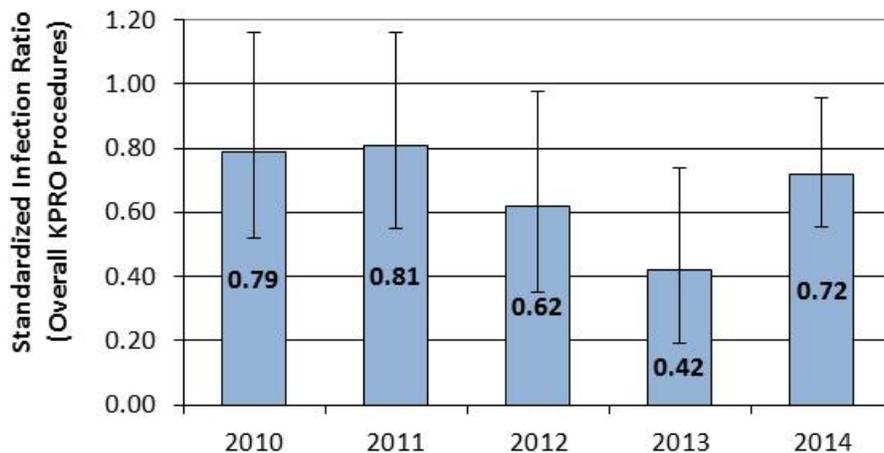


Table 25 . Post-discharge surveillance methods and percentage of SSI detected post-discharge in New Hampshire hospitals, 2013-2014

Hospital	Post-Discharge Surveillance Methods	% SSIs Identified Post-Discharge	Compared to State
Alice Peck Day Memorial	Surgeon Letters, Culture Reports	80.0	Similar
Androscoggin Valley	Surgeon Letters, Culture Reports, Outpatient Clinic	100.0	Similar
Catholic Medical Center	Surgeon Letters, Culture Reports	28.6	Similar
Cheshire Medical Center	Culture Reports, Outpatient Clinic	71.4	Similar
Concord Hospital	Surgeon Letters, Culture Reports	12.5	Similar
Cottage Hospital	Surgeon Letters, Culture Reports, Outpatient Clinic, Other	0.0	Similar
DHMC	Surgeon Letters, Culture Reports, Outpatient Clinic	61.2	Higher
Elliot Hospital	Surgeon Letters, Culture Reports	45.2	Similar
Exeter Hospital	Surgeon Letters, Culture Reports, Outpatient Clinic, other	21.1	Similar
Franklin Regional	Surgeon Letters, Culture Reports	†	†
Frisbie Memorial	Surgeon Letters, Outpatient Clinic	†	†
Huggins Hospital	Surgeon Letters, Culture Reports, Patient/Family	100.0	Similar
Lakes Region General	Surgeon Letters, Culture Reports	33.3	Similar
Littleton Regional	Surgeon Letters, Culture Reports, Outpatient Clinic	18.2	Similar
Monadnock Community	Surgeon Letters, Culture Reports	25.0	Similar
New London Hospital	Surgeon Letters, Culture Reports, Outpatient Clinic	†	†
Parkland Medical Center	Surgeon Letters, Culture Reports	20.0	Similar
Portsmouth Regional	Surgeon Letters	0.0	Lower
Southern NH Medical	Surgeon Letters, Culture Reports	0.0	Similar
Speare Memorial Hospital	Surgeon Letters, Culture Reports, Outpatient Clinic, Other	0.0	Similar
St. Joseph Hospital	Surgeon Letters, Culture Reports, Outpatient Clinic	6.3	Similar
The Memorial Hospital	Surgeon Letters, Culture Reports, Other	0.0	Similar
Upper Connecticut Valley	Surgeon Letters, Culture Reports, Patient/Family	†	†
Valley Regional Hospital	Surgeon Letters, Culture Reports, Outpatient Clinic	50.0	†
Weeks Medical Center	Surgeon Letters, Culture Reports, Outpatient Clinic	†	†
Wentworth-Douglass	Surgeon Letters, Culture Reports	18.8	Similar

†No SSIs reported or predicted number of infections is less than one during this time period. Note: Post-discharge surveillance methods may have changed since originally reported. These data are for 2013-2014 and are not directly comparable to the rest of the data in this report. These data are shown to assess the effectiveness of the post-discharge surveillance system implemented at each facility. Two years of data are used since the number of reported infections at many facilities is small.

H. Surgical Antimicrobial Prophylaxis Administration

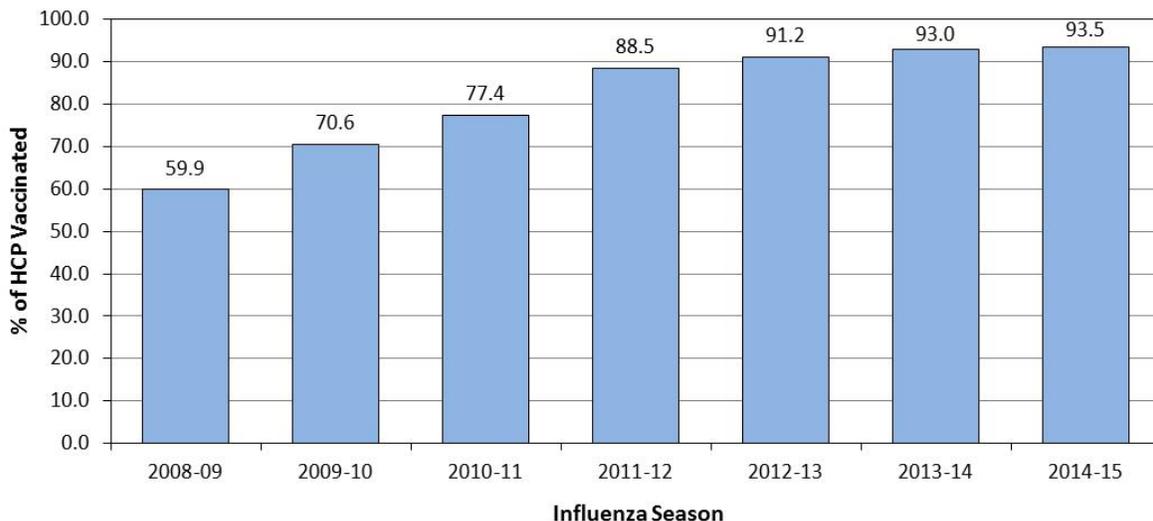
SCIP 2014 data reported to CMS was unavailable and the HAI Program was unable to conduct further analysis of this measure as routinely included in this report. In 2013, NH hospitals performed surgical antimicrobial prophylaxis correctly more often or similar to the national adherence percentage. For SCIP measure 1, 98.6% of patients received prophylactic antibiotic within one hour prior to surgery compared with 98.5% nationally. For SCIP measure 2, 99.3% of patients received the appropriate prophylactic antibiotic compared with 98.9% nationally. For SCIP measure 3, 98.0% of patients had his or her prophylactic antibiotic discontinued within 24 hours after surgery compared with 97.6% nationally. See methods section for additional information on how this information is collected.

Data for 2013 and earlier years is available in prior HAI Program reports and can be accessed here: <http://www.dhhs.nh.gov/dphs/cdcs/hai/publications.htm>.

I. Influenza Vaccination Percentages

Figure 23 shows the gradual increase in HCP vaccination percentages in NH hospitals since 2008; each season represents a statistically significant increase from the year prior. Table 26 and Figure 24 show the total number of HCP and the number of HCP vaccinated against seasonal influenza at each hospital during the 2014–15 influenza season. Vaccination percentages by hospital ranged from 69.6% to 100%, and the overall State vaccination percentage was 93.5%. The analysis presented in Table 26 shows that nine hospitals had vaccination percentages similar to the overall State vaccination percentage, 11 hospitals reported vaccination percentages that were significantly higher than the overall State vaccination percentage, and 14 hospitals reported vaccination percentages that were significantly lower than the overall State vaccination percentage.

Figure 23. Statewide influenza vaccination percentages for hospital HCP by influenza season

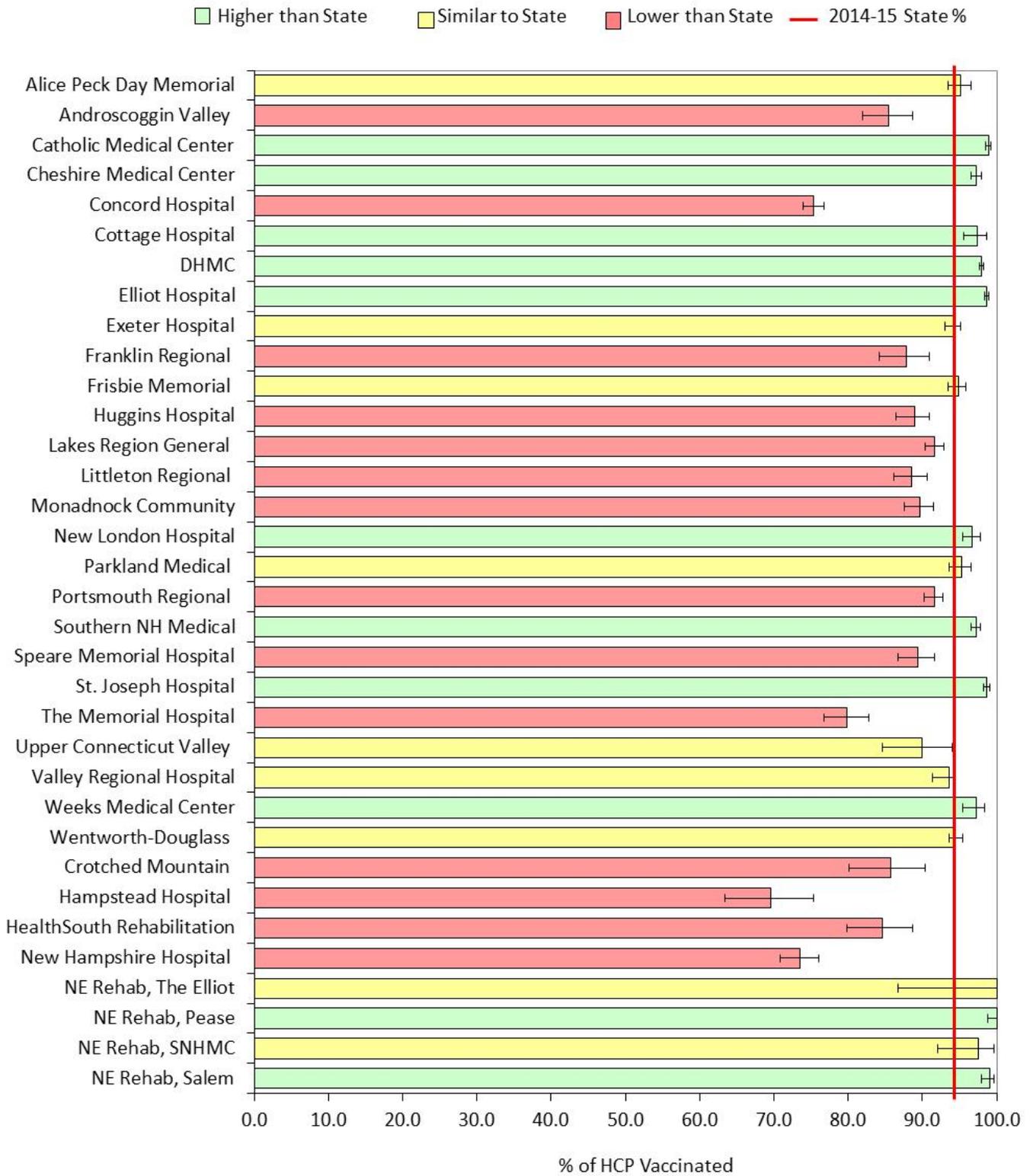


Note: Influenza season represents data for HCP between October 1st and March 31st the following calendar year, with the exception of 2008-09, which collected data for October 1st through April 30th.

Table 26. Influenza vaccination percentages for hospital HCP by hospital, 2014–15 influenza season, Oct 1, 2014–Mar 31, 2015

Hospital	HCP Vaccinated	Total HCP	% HCP Vaccinated	95% Confidence Interval	Hospital % Compared to State %
Alice Peck Day Memorial Hospital	724	761	95.1	93.4 , 96.5	Similar
Androscoggin Valley Hospital	361	422	85.5	81.9 , 88.7	Lower
Catholic Medical Center	4,039	4,085	98.9	98.5 , 99.2	Higher
Cheshire Medical Center	1,607	1,651	97.3	96.5 , 98.0	Higher
Concord Hospital	2,705	3,587	75.4	74.0 , 76.8	Lower
Cottage Hospital	379	389	97.4	95.5 , 98.7	Higher
DHMC	6,461	6,592	98.0	97.7 , 98.3	Higher
Elliot Hospital	5,520	5,593	98.7	98.4 , 99.0	Higher
Exeter Hospital	1,757	1,866	94.2	93.0 , 95.2	Similar
Franklin Regional Hospital	318	362	87.8	84.2 , 90.9	Lower
Frisbie Memorial Hospital	1,360	1,435	94.8	93.5 , 95.8	Similar
Huggins Hospital	648	729	88.9	86.5 , 91.0	Lower
Lakes Region General Hospital	1,574	1,717	91.7	90.3 , 92.9	Lower
Littleton Regional Hospital	691	780	88.6	86.2 , 90.7	Lower
Monadnock Community Hospital	798	890	89.7	87.5 , 91.5	Lower
New London Hospital	826	854	96.7	95.4 , 97.8	Higher
Parkland Medical Center	724	760	95.3	93.6 , 96.6	Similar
Portsmouth Regional Hospital	1,685	1,840	91.6	90.2 , 92.8	Lower
Southern N.H. Medical Center	2,339	2,407	97.2	96.5 , 97.8	Higher
Speare Memorial Hospital	521	583	89.4	86.7 , 91.7	Lower
St. Joseph Hospital	2,488	2,521	98.7	98.2 , 99.1	Higher
The Memorial Hospital	538	673	79.9	76.8 , 82.8	Lower
Upper Connecticut Valley Hospital	144	160	90.0	84.6 , 94.0	Similar
Valley Regional Hospital	500	534	93.6	91.3 , 94.5	Similar
Weeks Medical Center	453	466	97.2	95.4 , 98.4	Higher
Wentworth-Douglass Hospital	2,439	2,580	94.5	93.6 , 95.4	Similar
Crotched Mountain	156	182	85.7	80.1 , 90.3	Lower
Hampstead Hospital	160	230	69.6	63.4 , 75.3	Lower
HealthSouth Rehabilitation Hospital	215	254	84.6	79.8 , 88.7	Lower
New Hampshire Hospital	786	1,069	73.5	70.8 , 76.1	Lower
NE Rehab. Hospital, The Elliot	21	21	100.0	86.7 , -	Similar
NE Rehab. Hospital, Pease	243	243	100.0	98.8 , -	Higher
NE Rehab Hospital, SNHMC	78	80	97.5	92.0 , 99.6	Similar
NE Rehab. Hospital, Salem	541	546	99.1	98.0 , 99.7	Higher
State Total	43,799	46,862	93.5	93.2 , 93.7	

Figure 24. Influenza vaccination percentages for hospital HCP by hospital, 2014-15 influenza season, Oct 1, 2014–Mar 31, 2015



Influenza Vaccination Percentages: Comparison to 2013-14 Data

The overall statewide hospital HCP vaccination percentage increased significantly from 2008–09 to 2009–10, which may have been explained by overall increased interest in influenza vaccination as a result of the 2009 H1N1 pandemic. However, the influenza vaccination percentage continued to increase between the 2009-10 and 2014-15 seasons, suggesting other influences such as the public reporting of influenza vaccination coverage and mandatory vaccination policies. The analysis presented in Table 27 shows that overall, seven hospitals increased HCP influenza vaccination in 2014-15 compared to 2013-14, 19 hospitals had similar vaccination percentages, and seven hospitals decreased influenza vaccination percentages.

Note: One hospital, Northeast Rehabilitation Hospital, Salem, was newly licensed for the 2014-15 influenza season. For this reason, we were unable to compare data between the 2014-15 influenza season and the prior influenza season for this facility.

Figure 25. Influenza vaccination percentages for hospital healthcare personnel by hospital, 2013-14 and 2014-15 influenza seasons

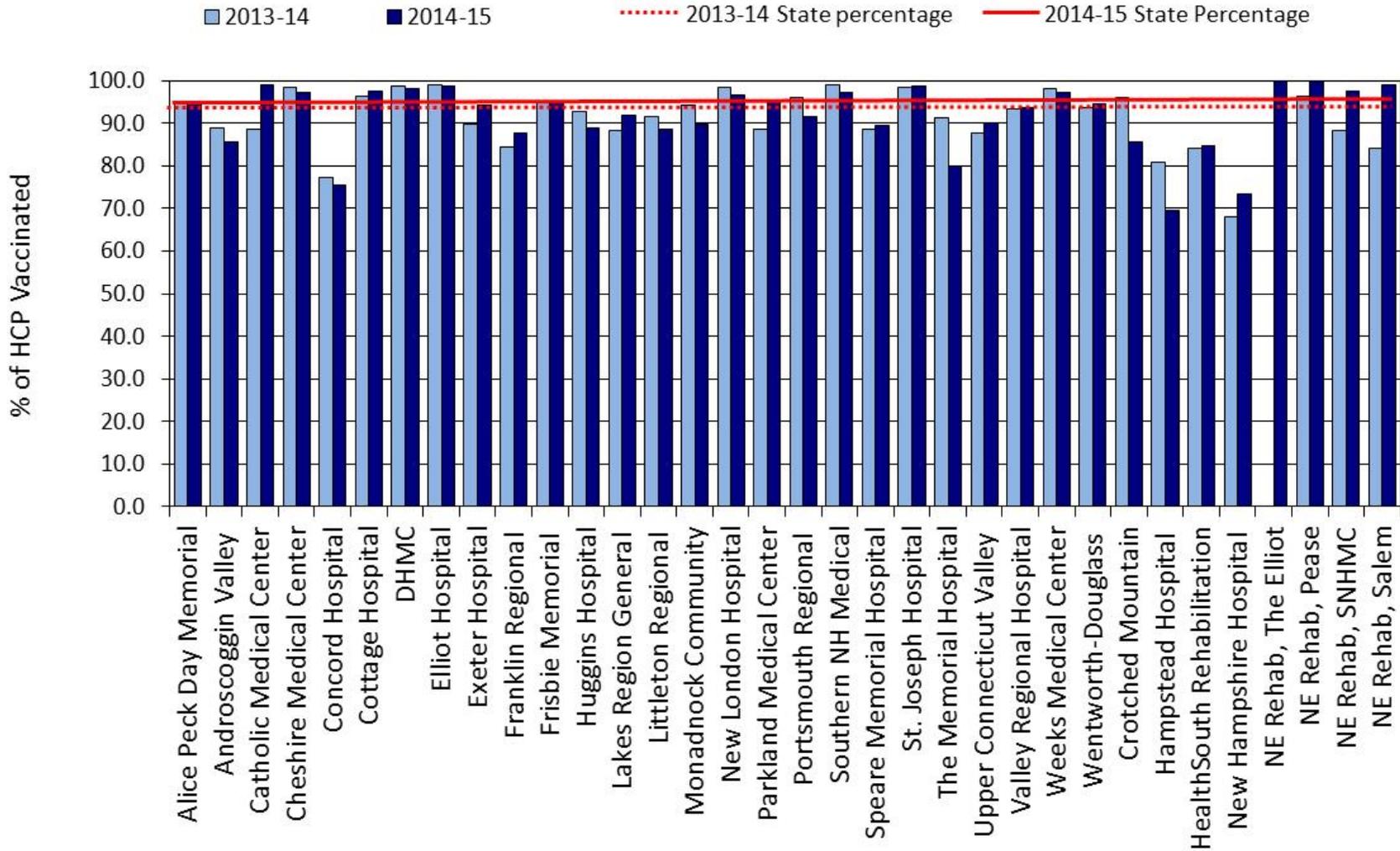


Table 27. Influenza vaccination percentages for hospital healthcare personnel by hospital, comparison between 2013-14 and 2014-15 influenza seasons

Hospital	% HCP Vaccinated 2014-15	95% Confidence Interval 2014-15	% HCP Vaccinated 2013-14	95% Confidence Interval 2013-14	2014-15 Compared to 2013-14
Alice Peck Day Memorial	95.1	93.4 , 96.5	94.7	92.8 , 96.2	Similar
Androscoggin Valley	85.5	81.9 , 88.7	89.0	85.9 , 91.7	Similar
Catholic Medical Center	98.9	98.5 , 99.2	88.7	87.5 , 89.7	Higher
Cheshire Medical Center	97.3	96.5 , 98.0	98.5	97.8 , 99.0	Similar
Concord Hospital	75.4	74.0 , 76.8	77.1	75.6 , 78.5	Similar
Cottage Hospital	97.4	95.5 , 98.7	96.3	94.1 , 97.8	Similar
DHMC	98.0	97.7 , 98.3	98.8	98.5 , 99.0	Lower
Elliot Hospital	98.7	98.4 , 99.0	99.1	98.8 , 99.3	Similar
Exeter Hospital	94.2	93.0 , 95.2	89.8	88.4 , 91.2	Higher
Franklin Regional	87.8	84.2 , 90.9	84.4	79.9 , 88.3	Similar
Frisbie Memorial	94.8	93.5 , 95.8	95.2	94.0 , 96.3	Similar
Huggins Hospital	88.9	86.5 , 91.0	92.7	90.5 , 94.5	Similar
Lakes Region General	91.7	90.3 , 92.9	88.3	86.9 , 89.7	Higher
Littleton Regional	88.6	86.2 , 90.7	91.4	88.6 , 93.7	Similar
Monadnock Community	89.7	87.5 , 91.5	94.2	92.5 , 95.7	Lower
New London Hospital	96.7	95.4 , 97.8	98.3	97.1 , 99.1	Similar
Parkland Medical Center	95.3	93.6 , 96.6	88.7	85.9 , 91.1	Higher
Portsmouth Regional	91.6	90.2 , 92.8	96.0	94.9 , 97.0	Lower
Southern NH Medical	97.2	96.5 , 97.8	98.9	98.3 , 99.3	Lower
Speare Memorial Hospital	89.4	86.7 , 91.7	88.6	85.7 , 91.0	Similar
St. Joseph Hospital	98.7	98.2 , 99.1	98.5	97.9 , 98.9	Similar
The Memorial Hospital	79.9	76.8 , 82.8	91.9	89.3 , 94.0	Lower
Upper Connecticut Valley	90.0	84.6 , 94.0	87.7	81.7 , 92.2	Similar
Valley Regional Hospital	93.6	91.3 , 94.5	93.2	90.9 , 95.0	Similar
Weeks Medical Center	97.2	95.4 , 98.4	98.1	96.6 , 99.0	Similar
Wentworth-Douglass	94.5	93.6 , 95.4	93.5	92.5 , 94.4	Similar
Crotched Mountain	85.7	80.1 , 90.3	96.0	92.6 , 98.1	Lower
Hampstead Hospital	69.6	63.4 , 75.3	80.7	75.4 , 85.3	Lower
HealthSouth Rehabilitation	84.6	79.8 , 88.7	84.2	78.8 , 88.7	Similar
New Hampshire Hospital	73.5	70.8 , 76.1	68.0	65.1 , 70.7	Higher
NE Rehab. Hospital, The Elliot	100.0	86.7 , -	-	-	N/A
NE Rehab. Hospital, Portsmouth	100.0	98.8 , -	96.4	92.6 , 98.5	Higher
NE Rehab Hospital, SNHMC	97.5	92.0 , 99.6	88.3	79.6 , 94.2	Similar
NE Rehab. Hospital, Salem	99.1	98.0 , 99.7	84.2	80.9 , 87.2	Higher
State Total	93.5	93.2* , 93.7	93.0	92.7 , 93.2*	Higher

*The upper bound of the 2013-14 State confidence interval is exactly 93.2, while the lower bound of the 2014-15 State confidence interval is 93.24, which rounds down to 93.2. Since the true, unrounded confidence intervals do not overlap, the State percentage in 2014-15 is considered significantly higher than in 2013-14.

- Facility was not open during this time period and did not report this measure.

N/A or not applicable: Comparison between two years of data at a given facility is not applicable if no data were reported by that facility and/or if data must be censored for one or more of the years presented.

Influenza Vaccination Policies for Healthcare Personnel

During the 2014-15 influenza season, 29 (85%) of 34 hospitals had a HCP vaccination policy in place, two (6%) did not have one in place but were considering one, and three (9%) did not have one in place and were not considering one. Among the 29 hospitals with a policy, 15 (51.7%) allowed only medical and religious exemptions; and two (6.8%) allowed medical and personal/philosophical exemptions. The remaining 12 (41.4%) allowed an exemption for medical, religious, and personal/philosophical reasons. Twenty-eight (96.6%) hospitals with a policy required unvaccinated HCP with an approved exemption to wear a mask, and 16 (55.2%) compelled unvaccinated HCP without an acceptable reason for exemption to progressive discipline, potentially including termination. Hospitals with vaccination policies had significantly higher percentages of influenza vaccination as a whole (95.7%) than hospitals without mandatory policies (75.7%). Hospitals that utilized progressive discipline potentially including termination as a consequence for unvaccinated HCP without an acceptable exemption had a significantly higher vaccination percentage (96.9%) than hospitals that did not include potential termination as a consequence (93.0%).

Figure 26. Influenza vaccination percentages for hospitals with and without vaccination policies, 2014-15 influenza season

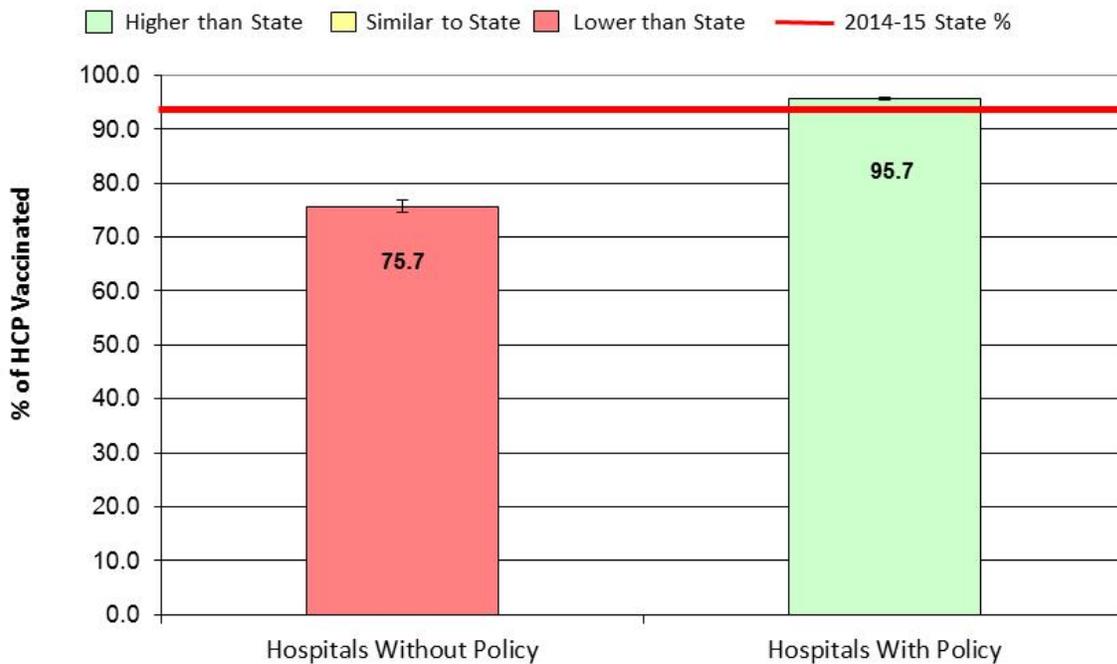


Table 28. Influenza vaccination policies and consequences for healthcare personnel by hospital, 2014-15 influenza season

Hospital	Exemptions Allowed in Policy*	Requirements for Unvaccinated HCP with Accepted Exemption	Consequences for Unvaccinated HCP without Accepted Exemption
Alice Peck Day Memorial Hospital	Medical, Religious, Personal/philosophical	Wear a mask	Wear a mask
Androscoggin Valley Hospital	Medical, Religious, Personal/philosophical	Wear a mask	No disciplinary consequences
Catholic Medical Center	Medical, Religious	Wear a mask	Progressive discipline, potentially including termination
Cheshire Medical Center	Medical, Religious	Wear a mask, Receive verbal and/or written education	Progressive discipline, potentially including termination
Cottage Hospital	Medical, Religious, Personal/philosophical	Wear a mask	Wear a mask
DHMC	Medical, Religious	Wear a mask	Progressive discipline, potentially including termination
Elliot Hospital	Medical, Religious	Wear a mask	Progressive discipline, potentially including termination
Exeter Hospital	Medical, Personal/philosophical	Wear a mask	Wear a mask, Progressive discipline, potentially including termination
Franklin Regional Hospital	Medical, Religious, Personal/philosophical	Wear a mask, Receive verbal and/or written education	Wear a mask, Receive verbal and/or written education
Frisbie Memorial Hospital	Medical, Religious, Personal/philosophical	Wear a mask	Receive verbal and/or written education
Huggins Hospital	Medical, Religious, Personal/philosophical	Wear a mask	Wear a mask, Receive verbal and/or written education
Lakes Region General Hospital	Medical, Religious, Personal/philosophical	Wear a mask, Receive verbal and/or written education	Wear a mask, Receive verbal and/or written education
Littleton Regional Hospital	Medical, Religious	Wear a mask	Progressive discipline, potentially including termination
Monadnock Community Hospital	Medical, Religious	Wear a mask, Receive verbal and/or written education	Wear a mask, Progressive discipline, potentially including termination, Receive verbal and/or written education
New London Hospital	Medical, Religious	Wear a mask	Progressive discipline, potentially including termination

*Exemptions include Medical, Religious, Personal/philosophical, and Other.

Table 28. (Continued) Influenza vaccination policies and consequences for healthcare personnel by hospital, 2014-15 influenza season

Hospital	Exemptions Allowed in Policy*	Requirements for Unvaccinated HCP with Accepted Exemption	Consequences for Unvaccinated HCP without Accepted Exemption
Parkland Medical Center	Medical, Religious	Wear a mask	Wear a mask, Receive verbal and/or written education
Portsmouth Regional Hospital	Medical, Religious, Personal/philosophical	Wear a mask	Wear a mask
Southern NH Medical Center	Medical, Religious	Receive verbal and/or written education	Progressive discipline, potentially including termination
Sppeare Memorial Hospital	Medical, Religious, Personal/philosophical	Wear a mask, Receive verbal and/or written education	Wear a mask, Progressive discipline, potentially including termination
St. Joseph Hospital	Medical, Religious	Wear a mask, Receive verbal and/or written education	Progressive discipline, potentially including termination
The Memorial Hospital	Medical, Religious	Wear a mask	Wear a mask, Progressive discipline, potentially including termination
Valley Regional Hospital	Medical, Religious, Personal/philosophical	Wear a mask	Wear a mask
Weeks Medical Center	Medical, Personal/philosophical	Wear a mask	Wear a mask
Wentworth-Douglass Hospital	Medical, Religious, Personal/philosophical	Wear a mask	Wear a mask
Crotched Mountain	Medical, Religious, Personal/philosophical	Wear a mask, Receive verbal and/or written education	Wear a mask, Receive verbal and/or written education
NE Rehab, The Elliot	Medical, Religious	Wear a mask	Progressive discipline, potentially including termination
NE Rehab, Salem	Medical, Religious	Wear a mask	Progressive discipline, potentially including termination
NE Rehab, Pease	Medical, Religious	Wear a mask	Progressive discipline, potentially including termination
NE Rehab, SNHMC	Medical, Religious	Wear a mask	Progressive discipline, potentially including termination

*Exemptions include Medical, Religious, Personal/philosophical, and Other.

Note: Two hospitals (5.9%) did not have mandatory vaccination policies during the 2014-15 influenza season, but were considering one at the time of the survey. Three hospitals (8.8%) did not have mandatory vaccination policies during the 2014-15 influenza season and were not considering one at the time of the survey.

IV. CONCLUSIONS

This sixth report on hospital HAI surveillance data displays continued progress toward the goal of eliminating HAI in NH. This report provides a picture of selected HAI data that can be used by healthcare facilities to identify areas for improvement and prevention, as well as healthcare consumers to make informed healthcare decisions.

Key findings described in this report include the following:

- All 34 individually licensed hospitals in NH complied with the HAI mandatory reporting law in 2014.
- NH hospitals reported fewer HAI associated with central lines and CABG procedures than predicted based on national data; this difference was statistically significant.
- The majority of hospitals have fewer or similar number of infections than predicted based on national data. There was a statistically significant increase for overall HAI between the first year of data presented in this report, 2010, and the most recent reporting period, 2014. However, this pattern was not seen between each individual year from 2010 to 2014. Many factors may have contributed to this pattern, including the addition of new and expanded reporting requirements in 2012.
- A few NH hospitals have more infections following certain procedures, which may warrant changes to current infection prevention practices in order to reduce infections.
- Statewide adherence to all four infection prevention practices during central line insertions was 98.3%, which represents a slight decrease from 2013 (98.4%); however, this decrease was not statistically significant. Hospitals have made improvements since HAI reporting began, and should continue to work toward the goal of 100% adherence.
- Surgical antimicrobial prophylaxis data for 2014 was not available and consequently not included in this report. However, in 2013, NH hospitals performed surgical antimicrobial prophylaxis correctly more often or similar to the national average.
- Vaccination coverage by hospital during the 2014-15 influenza season ranged from 69.6% to 100%. The overall State percentage was 93.5%, which represents a significant increase from the 2013-14 influenza season when the statewide vaccination percentage was 93.0% (in 2008-2009, when this reporting first began, the vaccination percentage was 59.9%). Statistically significant increases are expected to become more difficult to detect as vaccination coverage approaches 100%.
- Twenty-nine (85%) NH hospitals had an HCP vaccination policy in place during the 2014-15 season. This increased from the 2013-14 season when 28 hospitals had such policies. Overall, hospitals with vaccination policies had significantly higher percentages of influenza vaccination as a whole (95.7%) than hospitals without mandatory policies (75.7%).

While this report only includes information on a subset of HAI, the information provided can be used as an important indicator of healthcare quality and infection prevention efforts in NH hospitals. Although data in this report have not been independently validated to assess reporting accuracy, this process is ongoing; a validation study is planned and will be the subject of a future report. Healthcare consumers can discuss the information provided in this report with their

healthcare provider and should review Appendix 4 for information on what individual patients can do to prevent HAI.

V. ACUTE CARE HOSPITAL REPORTS

Because data must be broken down into categories for risk adjustment and because rates must be suppressed if data are too sparse, data that can be presented for NH facilities may be limited. Due to restrictions on presenting data, there are several hospitals for which facility-specific infections data for specific measures cannot be presented. See technical notes for additional information on data restriction and presentation.



ALICE PECK DAY MEMORIAL

Lebanon, NH

Not-for-profit

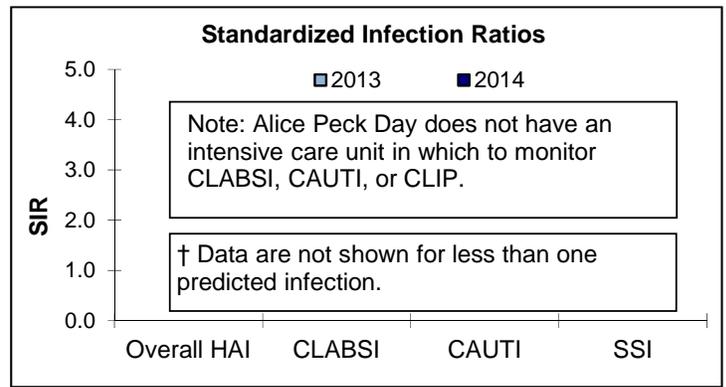
of Admissions: 1,455

of Beds: 25

of ICU Beds: 0

of Patient-days: 5,402

2014 HAI DATA REPORT



STANDARDIZED INFECTION RATIOS (SIR)

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall HAI	0.00	1.06	0.00	- , 13.74	Similar
CLABSI					
CAUTI					
SSI	0.00	1.06	0.00	- , 2.83	Similar
CABG					
COLO	†	†	†	†	†
HYST	†	†	†	†	†
KPRO	†	†	†	†	†

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES

Type of Unit	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
No ICU					

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES BY BIRTHWEIGHT IN NEONATAL INTENSIVE CARE UNITS

Birthweight Category	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
BW Category A					
BW Category B					
BW Category C					
BW Category D					
BW Category E					

CATHETER-ASSOCIATED URINARY TRACT INFECTION RATES

Type of Unit	Number of Infections	Number of Catheter Days	Rate per 1,000 Catheter Days	National Rate	Comparison to National Rate
No ICU					

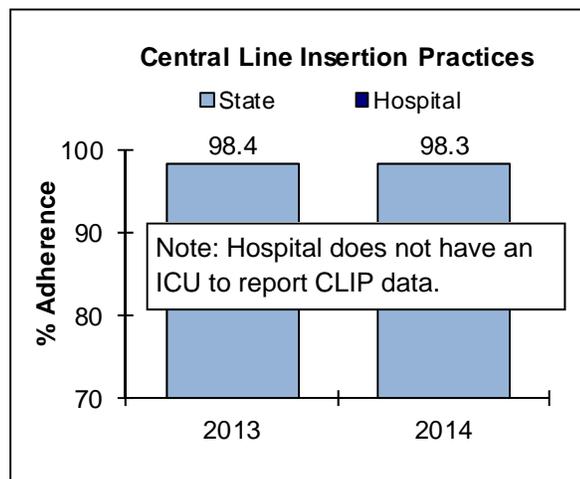
BW Category A: Equal or less than 750 grams BW Category B: Equal and between 751 and 1,000 grams BW Category C: Equal and between 1,001 and 1,500 grams BW Category D: Equal and between 1,501 and 2,500 grams BW Category E: More than 2,500 grams

HAI: Healthcare-associated infection CLABSI: Central line-associated bloodstream infection CAUTI: Catheter-associated urinary tract infection SSI: Surgical site infection COLO: Colon procedure HYST: Abdominal hysterectomy CABG: Coronary artery bypass graft KPRO: Knee arthroplasty

ALICE PECK DAY MEMORIAL 2014 DATA REPORT

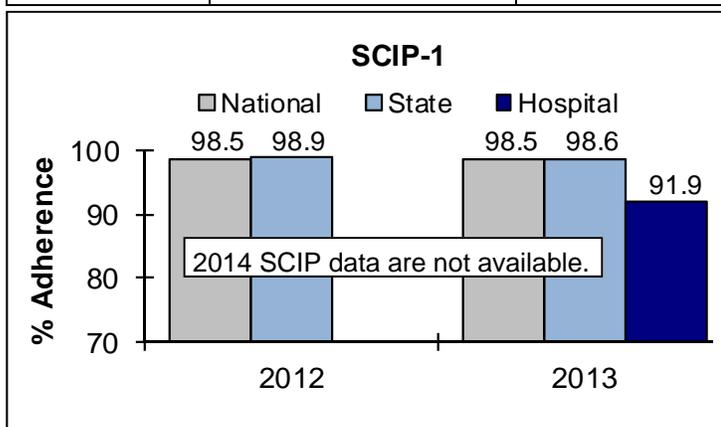
PROCESS MEASURES

Measure	Percent Adherence	State Coverage	Comparison to State Coverage
CLIP		98.3	
SCIP-1	Note: 2014 SCIP data were not available at time of publication and as a result are excluded from this report.		
SCIP-2			
SCIP-3			
Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	95.1	93.5	Similar

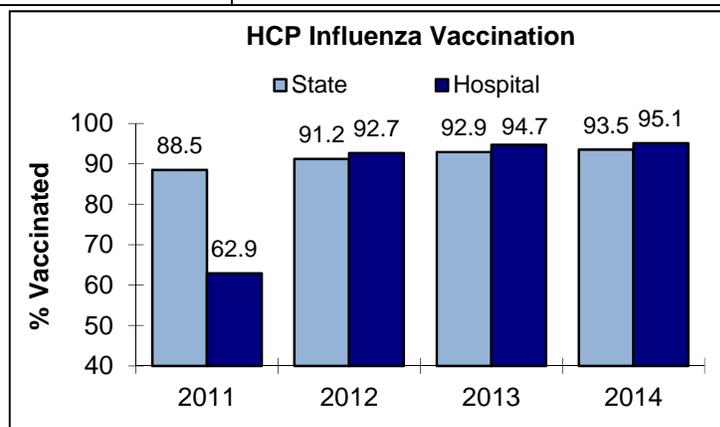


INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
YES	Medical, Religious, Personal/philosophical	Wear a mask	Wear a mask



SCIP: Surgical care improvement project



CLIP: Central line insertion practices

DATA NOTES:

- The 2014 central line-associated blood stream infections (CLABSI), surgical site infections (SSI) and catheter-associated urinary tract infections (CAUTI) data presented in this report have not been validated and must be interpreted with the understanding that in general there are both under- and over-reporting of infections.
- In New Hampshire in 2014, CLABSI were monitored in all intensive care units (including pediatric and neonatal units) and not in other inpatient locations. CAUTI were monitored in all intensive care units (including pediatric units and excluding neonatal ICU) and not in other inpatient locations.
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- SSI reporting requires not only reporting of infections but also detailed information on every patient who underwent the procedure being monitored. As such, DHHS has elected to monitor a subset of procedures based on national recommendations since it would not be feasible for hospitals to report information on every patient receiving a surgical procedure due to the burden of reporting.
- As of July 1, 2015, SCIP 2014 data reported to CMS was unavailable and the HAI Program was unable to conduct further analysis of this measure as routinely included in this report.



ANDROSCOGGIN VALLEY

Berlin, NH

Not-for-profit

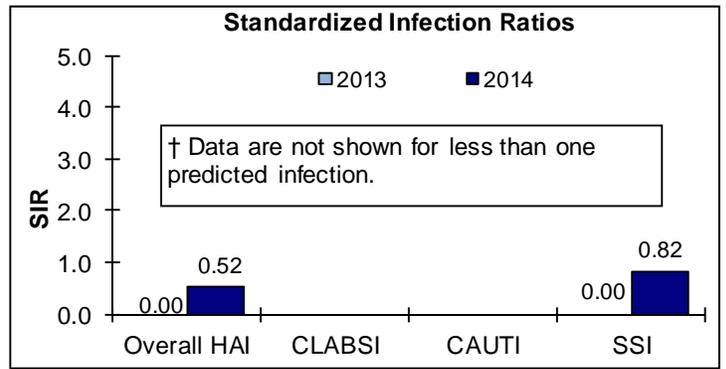
of Admissions: 1,459

of Beds: 25

of ICU Beds: 0

of Patient-days: 5,402

2014 HAI DATA REPORT



STANDARDIZED INFECTION RATIOS (SIR)

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall HAI	1	1.91	0.52	0.01 , 2.92	Similar
CLABSI	†	†	†	†	†
CAUTI	†	†	†	†	†
SSI	1	1.22	0.82	0.04 , 4.04	Similar
CABG					
COLO	†	†	†	†	†
HYST	†	†	†	†	†
KPRO	†	†	†	†	†

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES

Type of Unit	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
Medical ICU	0	77	0.0	0.5	Similar

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES BY BIRTHWEIGHT IN NEONATAL INTENSIVE CARE UNITS

Birthweight Category	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
BW Category A					
BW Category B					
BW Category C					
BW Category D					
BW Category E					

CATHETER-ASSOCIATED URINARY TRACT INFECTION RATES

Type of Unit	Number of Infections	Number of Catheter Days	Rate per 1,000 Catheter Days	National Rate	Comparison to National Rate
Medical ICU	0	269	0.0	0.7	Similar

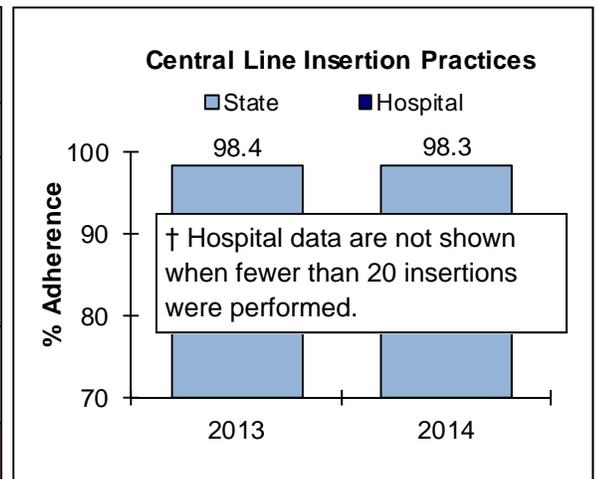
BW Category A: Equal or less than 750 grams BW Category B: Equal and between 751 and 1,000 grams BW Category C: Equal and between 1,001 and 1,500 grams BW Category D: Equal and between 1,501 and 2,500 grams BW Category E: More than 2,500 grams

HAI: Healthcare-associated infection CLABSI: Central line-associated bloodstream infection CAUTI: Catheter-associated urinary tract infection SSI: Surgical site infection COLO: Colon procedure HYST: Abdominal hysterectomy CABG: Coronary artery bypass graft KPRO: Knee arthroplasty

ANDROSCOGGIN VALLEY 2014 DATA REPORT

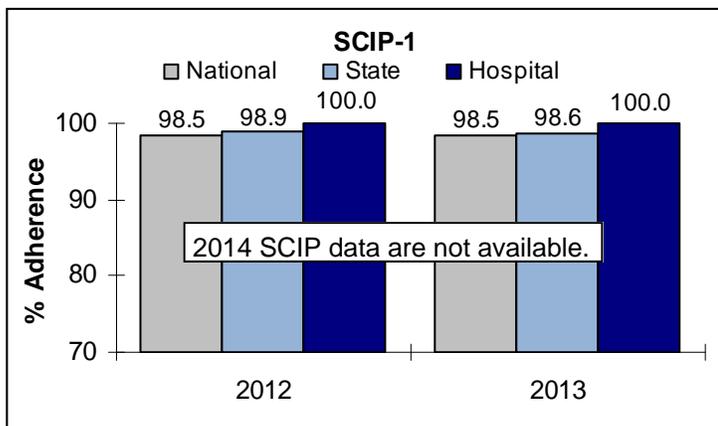
PROCESS MEASURES

Measure	Percent Adherence	State Coverage	Comparison to State Coverage
CLIP	†	98.3	†
SCIP-1	Note: 2014 SCIP data were not available at time of publication and as a result are excluded from this report.		
SCIP-2			
SCIP-3			
Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	85.5	93.5	Lower

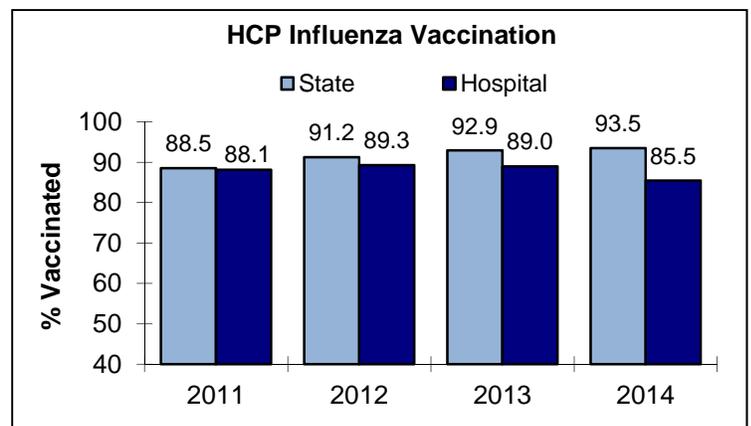


INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
YES	Medical, Religious, Personal/philosophical	Wear a mask	No disciplinary consequences



SCIP: Surgical care improvement project



CLIP: Central line insertion practices

DATA NOTES:

- The 2014 central line-associated blood stream infections (CLABSI), surgical site infections (SSI) and catheter-associated urinary tract infections (CAUTI) data presented in this report have not been validated and must be interpreted with the understanding that in general there are both under- and over-reporting of infections.
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- SSI reporting requires not only reporting of infections but also detailed information on every patient who underwent the procedure being monitored. As such, DHHS has elected to monitor a subset of procedures based on national recommendations since it would not be feasible for hospitals to report information on every patient receiving a surgical procedure due to the burden of reporting.
- As of July 1, 2015, SCIP 2014 data reported to CMS was unavailable and the HAI Program was unable to conduct further analysis of this measure as routinely included in this report.



CATHOLIC MEDICAL CENTER

Manchester, NH

Not-for-profit

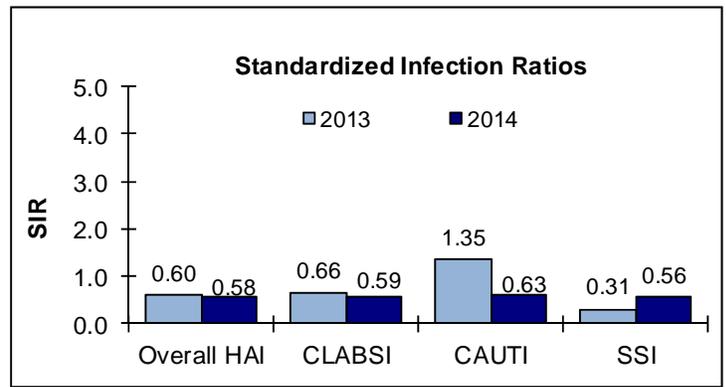
of Admissions: 10,568

of Beds: 235

of ICU Beds: 20

of Patient-days: 54,961

2014 HAI DATA REPORT



STANDARDIZED INFECTION RATIOS (SIR)

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall HAI	14	24.23	0.58	0.32 , 0.97	Lower
CLABSI	3	5.06	0.59	0.15 , 1.62	Similar
CAUTI	3	4.77	0.63	0.16 , 1.71	Similar
SSI	8	14.41	0.56	0.26 , 1.05	Similar
CABG	2	7.21	0.28	0.05 , 0.92	Lower
COLO	5	2.87	1.74	0.64 , 3.87	Similar
HYST	0	1.68	0.00	- , 1.79	Similar
KPRO	1	2.65	0.38	0.02 , 1.86	Similar

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES

Type of Unit	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	3	3,371	0.9	0.8	Similar

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES BY BIRTHWEIGHT IN NEONATAL INTENSIVE CARE UNITS

Birthweight Category	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
BW Category A					
BW Category B					
BW Category C					
BW Category D					
BW Category E					

CATHETER-ASSOCIATED URINARY TRACT INFECTION RATES

Type of Unit	Number of Infections	Number of Catheter Days	Rate per 1,000 Catheter Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	3	3,972	0.8	1.7	Similar

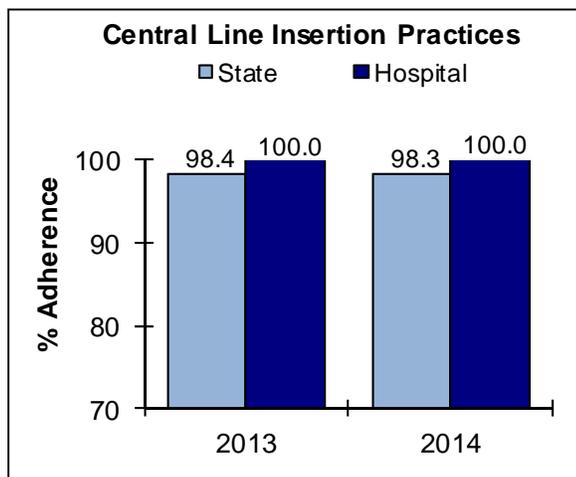
BW Category A: Equal or less than 750 grams BW Category B: Equal and between 751 and 1,000 grams BW Category C: Equal and between 1,001 and 1,500 grams BW Category D: Equal and between 1,501 and 2,500 grams BW Category E: More than 2,500 grams

HAI: Healthcare-associated infection CLABSI: Central line-associated bloodstream infection CAUTI: Catheter-associated urinary tract infection SSI: Surgical site infection COLO: Colon procedure HYST: Abdominal hysterectomy CABG: Coronary artery bypass graft KPRO: Knee arthroplasty

CATHOLIC MEDICAL CENTER 2014 DATA REPORT

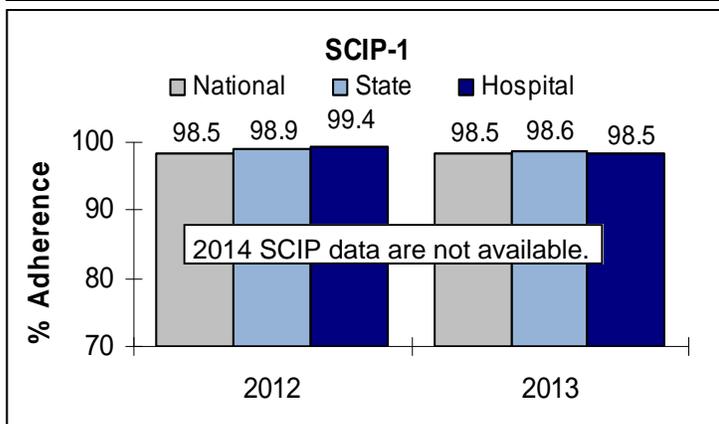
PROCESS MEASURES

Measure	Percent Adherence	State Coverage	Comparison to State Coverage
CLIP	100.0	98.3	Similar
SCIP-1	Note: 2014 SCIP data were not available at time of publication and as a result are excluded from this report.		
SCIP-2			
SCIP-3			
Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	98.9	93.5	Higher

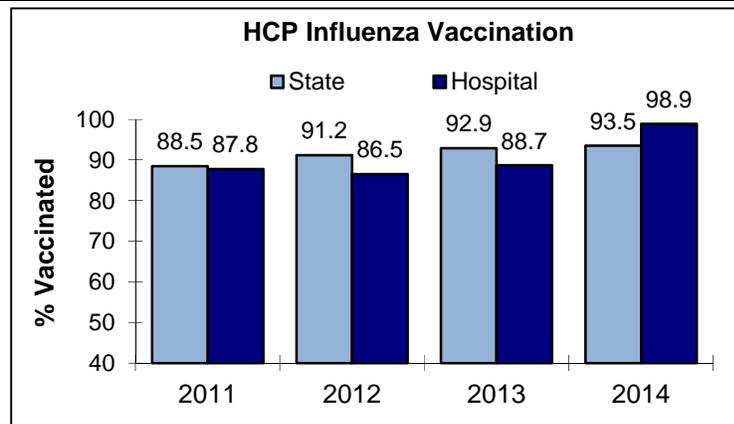


INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
YES	Medical, Religious	Wear a mask	Progressive discipline, potentially including termination



SCIP: Surgical care improvement project



CLIP: Central line insertion practices

DATA NOTES:

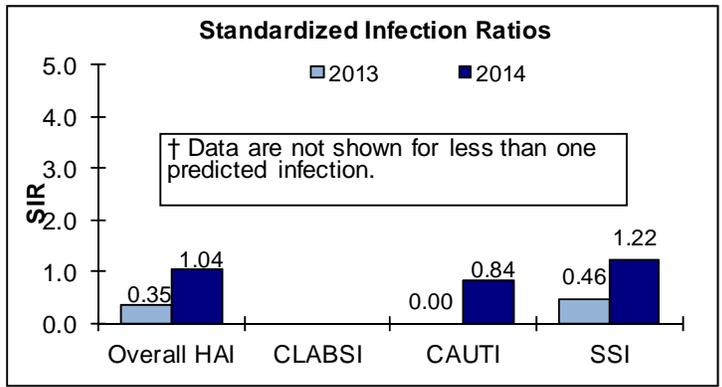
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- As of July 1, 2015, SCIP 2014 data reported to CMS was unavailable and the HAI Program was unable to conduct further analysis of this measure as routinely included in this report.



CHESHIRE MEDICAL CENTER

Keene, NH
 Not-for-profit
 # of Admissions: 4,243
 # of Beds: 116
 # of ICU Beds: 10
 # of Patient-days: 20,403

2014 HAI DATA REPORT



STANDARDIZED INFECTION RATIOS (SIR)

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall HAI	6	5.78	1.04	0.38 , 2.26	Similar
CLABSI	†	†	†	†	†
CAUTI	1	1.19	0.84	0.04 , 4.16	Similar
SSI	5	4.09	1.22	0.45 , 2.71	Similar
CABG					
COLO	4	2.68	1.49	0.47 , 3.60	Similar
HYST	†	†	†	†	†
KPRO	†	†	†	†	†

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES

Type of Unit	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
Medical ICU	0	264	0.0	1.1	Similar

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES BY BIRTHWEIGHT IN NEONATAL INTENSIVE CARE UNITS

Birthweight Category	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
BW Category A					
BW Category B					
BW Category C					
BW Category D					
BW Category E					

CATHETER-ASSOCIATED URINARY TRACT INFECTION RATES

Type of Unit	Number of Infections	Number of Catheter Days	Rate per 1,000 Catheter Days	National Rate	Comparison to National Rate
Medical ICU	1	593	1.7	2.0	Similar

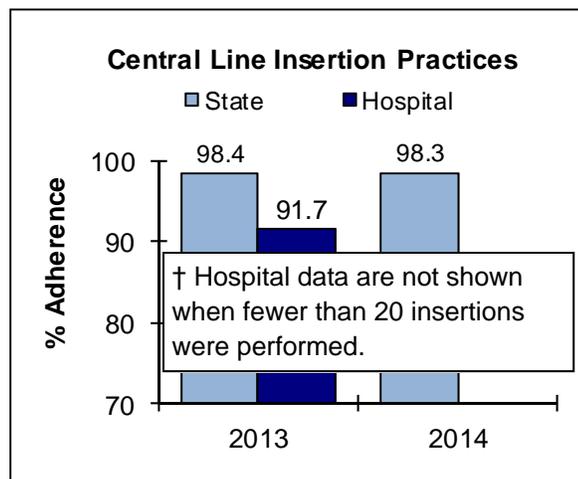
BW Category A: Equal or less than 750 grams BW Category B: Equal and between 751 and 1,000 grams BW Category C: Equal and between 1,001 and 1,500 grams BW Category D: Equal and between 1,501 and 2,500 grams BW Category E: More than 2,500 grams

HAI: Healthcare-associated infection CLABSI: Central line-associated bloodstream infection CAUTI: Catheter-associated urinary tract infection SSI: Surgical site infection COLO: Colon procedure HYST: Abdominal hysterectomy CABG: Coronary artery bypass graft KPRO: Knee arthroplasty

CHESHIRE MEDICAL CENTER 2014 DATA REPORT

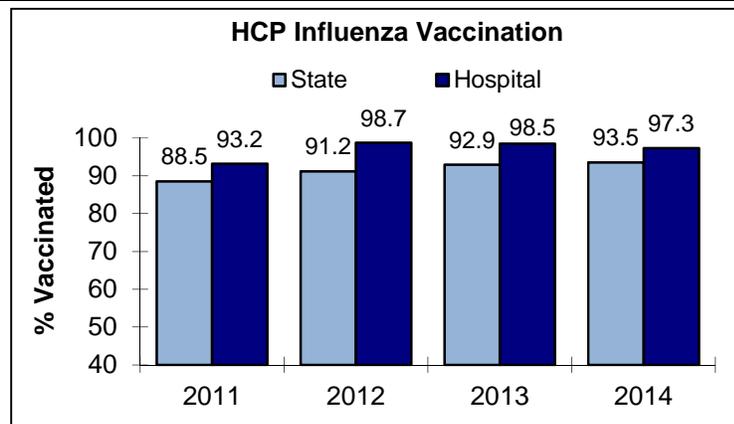
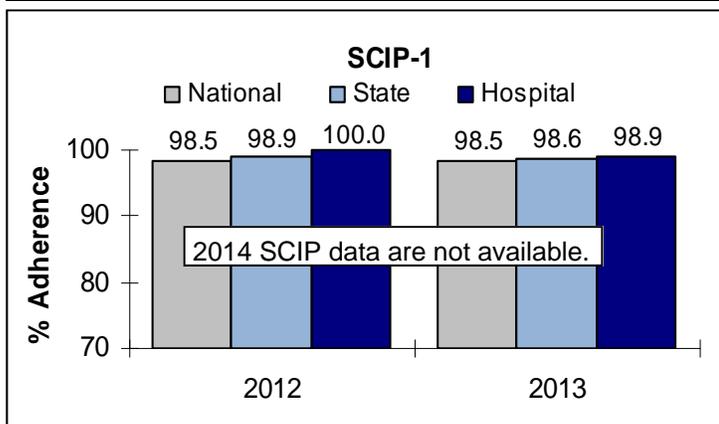
PROCESS MEASURES

Measure	Percent Adherence	State Coverage	Comparison to State Coverage
CLIP	†	98.3	†
SCIP-1	Note: 2014 SCIP data were not available at time of publication and as a result are excluded from this report.		
SCIP-2			
SCIP-3			
Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	97.3	93.5	Higher



INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
YES	Medical, Religious	Wear a mask, Receive verbal and/or written education	Progressive discipline, potentially including termination



SCIP: Surgical care improvement project

CLIP: Central line insertion practices

DATA NOTES:

- The 2014 central line-associated blood stream infections (CLABSI), surgical site infections (SSI) and catheter-associated urinary tract infections (CAUTI) data presented in this report have not been validated and must be interpreted with the understanding that in general there are both under- and over-reporting of infections.
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CONCORD HOSPITAL

Concord, NH

Not-for-profit

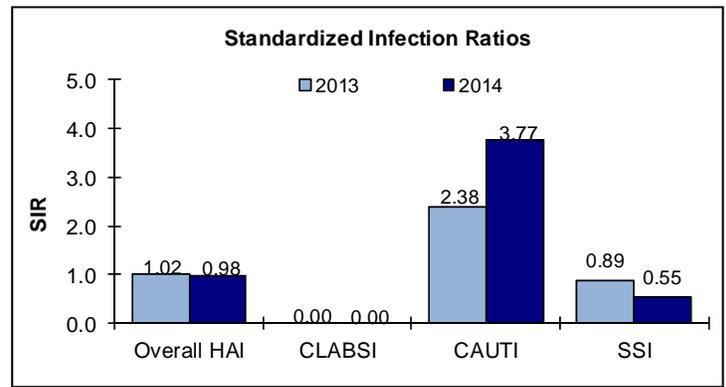
of Admissions: 16,958

of Beds: 238

of ICU Beds: 18

of Patient-days: 62,427

2014 HAI DATA REPORT



STANDARDIZED INFECTION RATIOS (SIR)

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall HAI	22	22.43	0.98	0.61 , 1.48	Similar
CLABSI	0	2.64	0.00	- , 1.14	Similar
CAUTI	13	3.45	3.77	2.10 , 6.28	Higher
SSI	9	16.34	0.55	0.27 , 1.01	Similar
CABG	1	1.50	0.67	0.03 , 3.29	Similar
COLO	7	5.27	1.33	0.58 , 2.63	Similar
HYST	0	2.01	0.00	- , 1.49	Similar
KPRO	1	7.57	0.13	0.01 , 0.65	Lower

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES

Type of Unit	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	0	1,760	0.0	0.8	Similar

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES BY BIRTHWEIGHT IN NEONATAL INTENSIVE CARE UNITS

Birthweight Category	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
BW Category A					
BW Category B					
BW Category C					
BW Category D					
BW Category E					

CATHETER-ASSOCIATED URINARY TRACT INFECTION RATES

Type of Unit	Number of Infections	Number of Catheter Days	Rate per 1,000 Catheter Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	13	2,874	4.5	1.7	Higher

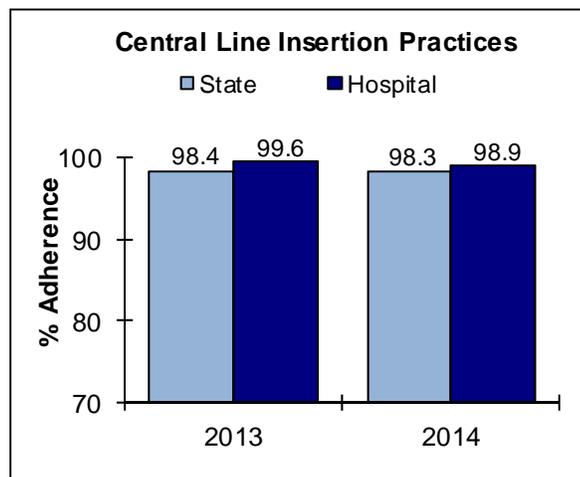
BW Category A: Equal or less than 750 grams BW Category B: Equal and between 751 and 1,000 grams BW Category C: Equal and between 1,001 and 1,500 grams BW Category D: Equal and between 1,501 and 2,500 grams BW Category E: More than 2,500 grams

HAI: Healthcare-associated infection CLABSI: Central line-associated bloodstream infection CAUTI: Catheter-associated urinary tract infection SSI: Surgical site infection COLO: Colon procedure HYST: Abdominal hysterectomy CABG: Coronary artery bypass graft KPRO: Knee arthroplasty

CONCORD HOSPITAL 2014 DATA REPORT

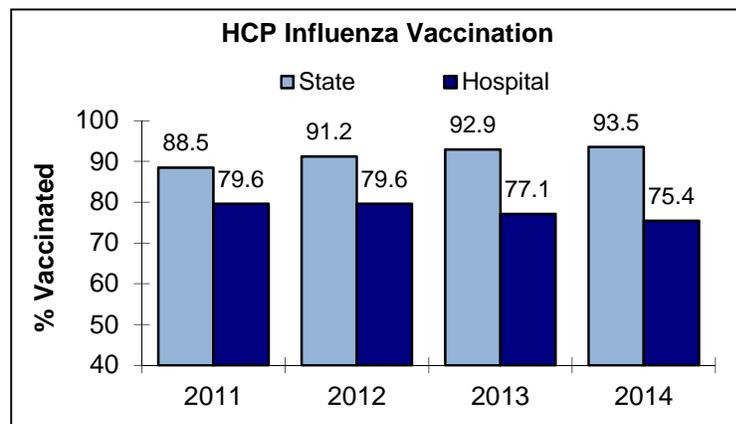
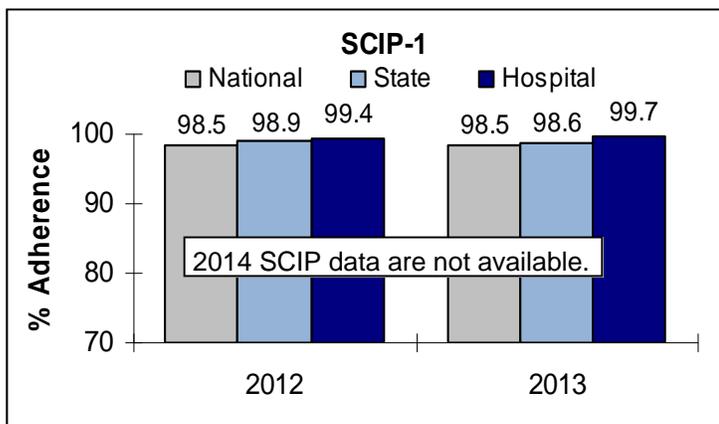
PROCESS MEASURES

Measure	Percent Adherence	State Coverage	Comparison to State Coverage
CLIP	98.9	98.3	Similar
SCIP-1	Note: 2014 SCIP data were not available at time of publication and as a result are excluded from this report.		
SCIP-2			
SCIP-3			
Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	75.4	93.5	Lower



INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
CONSIDERING			



SCIP: Surgical care improvement project

CLIP: Central line insertion practices

DATA NOTES:

- The 2014 central line-associated blood stream infections (CLABSI), surgical site infections (SSI) and catheter-associated urinary tract infections (CAUTI) data presented in this report have not been validated and must be interpreted with the understanding that in general there are both under- and over-reporting of infections.
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- As of July 1, 2015, SCIP 2014 data reported to CMS was unavailable and the HAI Program was unable to conduct further analysis of this measure as routinely included in this report.



COTTAGE HOSPITAL

Woodsville, NH

Not-for-profit

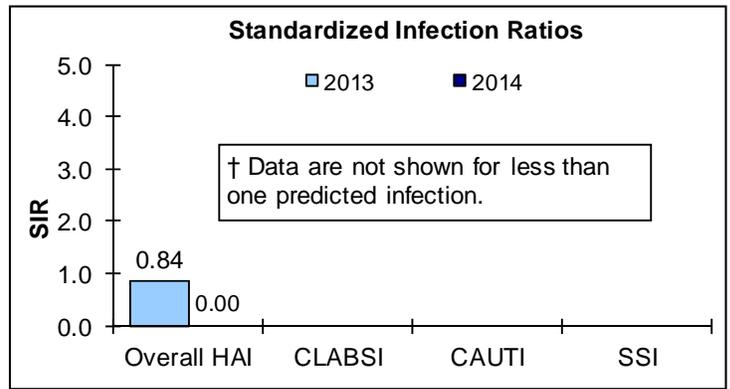
of Admissions: 1,036

of Beds: 25

of ICU Beds: 3

of Patient-days: 4,833

2014 HAI DATA REPORT



STANDARDIZED INFECTION RATIOS (SIR)

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall HAI	†	†	†	†	†
CLABSI	†	†	†	†	†
CAUTI	†	†	†	†	†
SSI	†	†	†	†	†
CABG					
COLO	†	†	†	†	†
HYST	†	†	†	†	†
KPRO	†	†	†	†	†

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES

Type of Unit	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	†	†	†	†	†

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES BY BIRTHWEIGHT IN NEONATAL INTENSIVE CARE UNITS

Birthweight Category	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
BW Category A					
BW Category B					
BW Category C					
BW Category D					
BW Category E					

CATHETER-ASSOCIATED URINARY TRACT INFECTION RATES

Type of Unit	Number of Infections	Number of Catheter Days	Rate per 1,000 Catheter Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	0	51	0.0	0.7	Similar

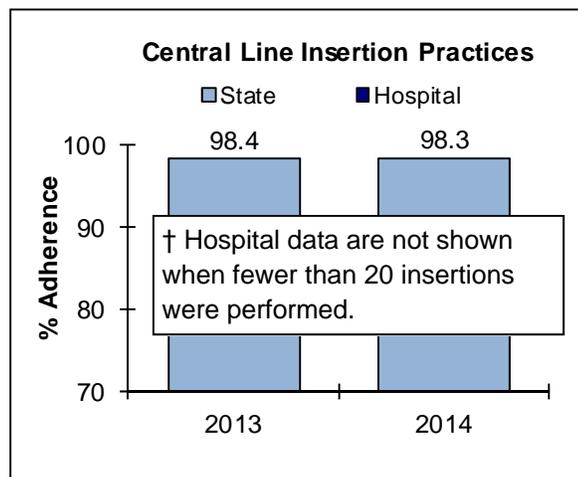
BW Category A: Equal or less than 750 grams BW Category B: Equal and between 751 and 1,000 grams BW Category C: Equal and between 1,001 and 1,500 grams BW Category D: Equal and between 1,501 and 2,500 grams BW Category E: More than 2,500 grams

HAI: Healthcare-associated infection CLABSI: Central line-associated bloodstream infection CAUTI: Catheter-associated urinary tract infection SSI: Surgical site infection COLO: Colon procedure HYST: Abdominal hysterectomy CABG: Coronary artery bypass graft KPRO: Knee arthroplasty

COTTAGE HOSPITAL 2014 DATA REPORT

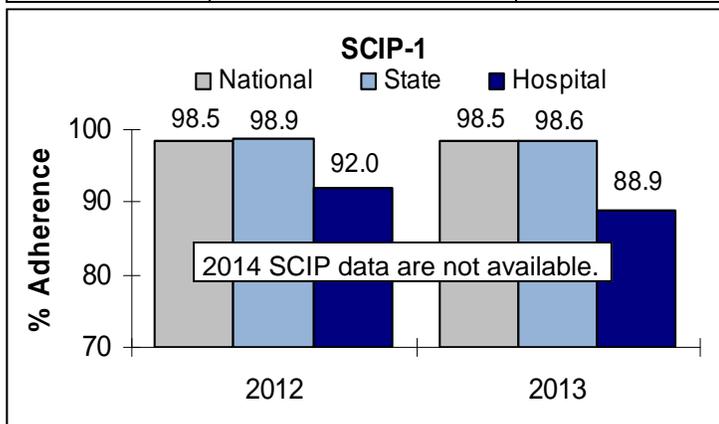
PROCESS MEASURES

Measure	Percent Adherence	State Coverage	Comparison to State Coverage
CLIP	†	98.3	†
SCIP-1	Note: 2014 SCIP data were not available at time of publication and as a result are excluded from this report.		
SCIP-2			
SCIP-3			
Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	97.4	93.5	Higher

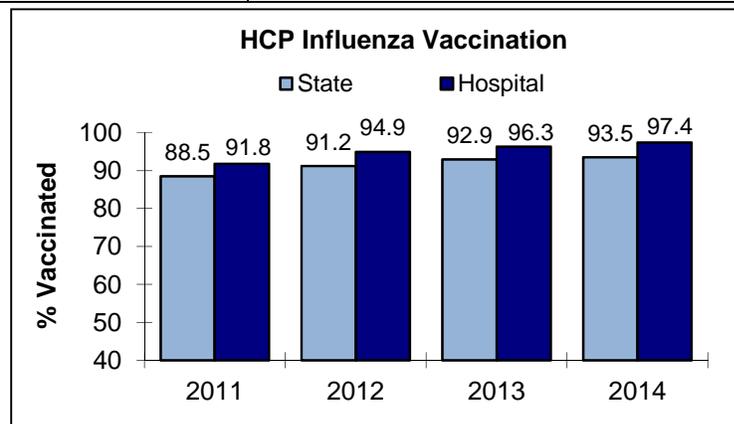


INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
YES	Medical, Religious, Personal/philosophical,	Wear a mask	Wear a mask



SCIP: Surgical care improvement project



CLIP: Central line insertion practices

DATA NOTES:

- The 2014 central line-associated blood stream infections (CLABSI), surgical site infections (SSI) and catheter-associated urinary tract infections (CAUTI) data presented in this report have not been validated and must be interpreted with the understanding that in general there are both under- and over-reporting of infections.
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- As of July 1, 2015, SCIP 2014 data reported to CMS was unavailable and the HAI Program was unable to conduct further analysis of this measure as routinely included in this report.



DHMC

Lebanon, NH

Not-for-profit

of Admissions: 24,325

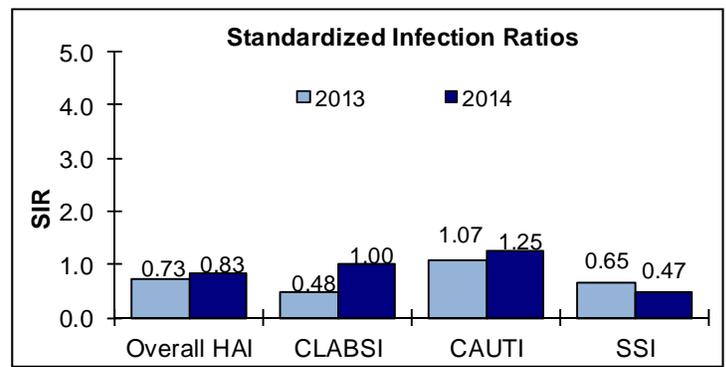
of Beds: 427

of ICU Beds: 94

of Patient-days: 121,512

2014 HAI DATA REPORT

STANDARDIZED INFECTION RATIOS (SIR)



Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall HAI	69	82.85	0.83	0.65 , 1.05	Similar
CLABSI	20	20.07	1.00	0.63 , 1.51	Similar
CAUTI	31	24.73	1.25	0.87 , 1.76	Similar
SSI	18	38.05	0.47	0.29 , 0.73	Lower
CABG	1	4.57	0.22	0.01 , 1.08	Similar
COLO	9	20.77	0.43	0.21 , 0.80	Lower
HYST	7	6.37	1.10	0.48 , 2.17	Similar
KPRO	1	6.34	0.16	0.01 , 0.78	Lower

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES

Type of Unit	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
Cardiac ICU	2	1,209	1.7	1	Similar
Medical/Surgical ICU	14	6,590	2.1	1.1	Higher
Ped Med/Surg ICU	0	443	0	1.2	Similar

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES BY BIRTHWEIGHT IN NEONATAL INTENSIVE CARE UNITS

Birthweight Category	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
BW Category A	2	163	12.3	2.2	Similar
BW Category B	0	179	0.0	1.9	Similar
BW Category C	1	348	2.9	1.0	Similar
BW Category D	1	274	3.6	0.6	Similar
BW Category E	0	225	0.0	0.5	Similar

CATHETER-ASSOCIATED URINARY TRACT INFECTION RATES

Type of Unit	Number of Infections	Number of Catheter Days	Rate per 1,000 Catheter Days	National Rate	Comparison to National Rate
Cardiac ICU	5	2,158	2.3	2.3	Similar
Medical/Surgical ICU	23	8,384	2.7	2.7	Similar
Ped Med/Surg ICU	3	404	7.4	2.5	Similar

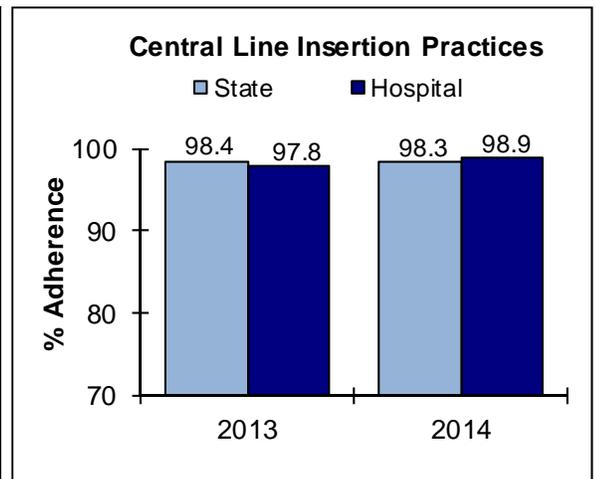
BW Category A: Equal or less than 750 grams BW Category B: Equal and between 751 and 1,000 grams BW Category C: Equal and between 1,001 and 1,500 grams BW Category D: Equal and between 1,501 and 2,500 grams BW Category E: More than 2,500 grams

HAI: Healthcare-associated infection CLABSI: Central line-associated bloodstream infection CAUTI: Catheter-associated urinary tract infection SSI: Surgical site infection COLO: Colon procedure HYST: Abdominal hysterectomy CABG: Coronary artery bypass graft KPRO: Knee arthroplasty

DHMC 2014 DATA REPORT

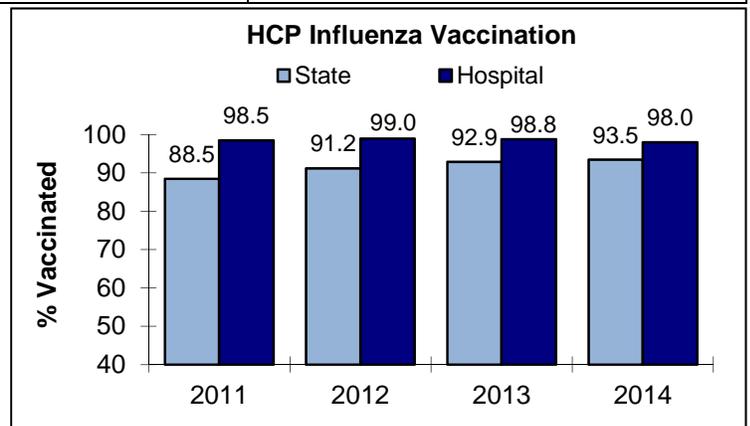
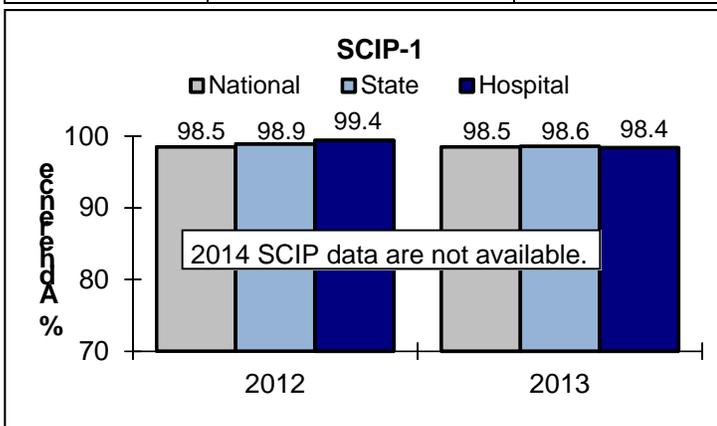
PROCESS MEASURES

Measure	Percent Adherence	State Coverage	Comparison to State Coverage
CLIP	98.9	98.3	Similar
SCIP-1	Note: 2014 SCIP data were not available at time of publication and as a result are excluded from this report.		
SCIP-2			
SCIP-3			
Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	98.0	93.5	Higher



INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
YES	Medical, Religious	Wear a mask	Progressive discipline, potentially including termination



SCIP: Surgical care improvement project

CLIP: Central line insertion practices

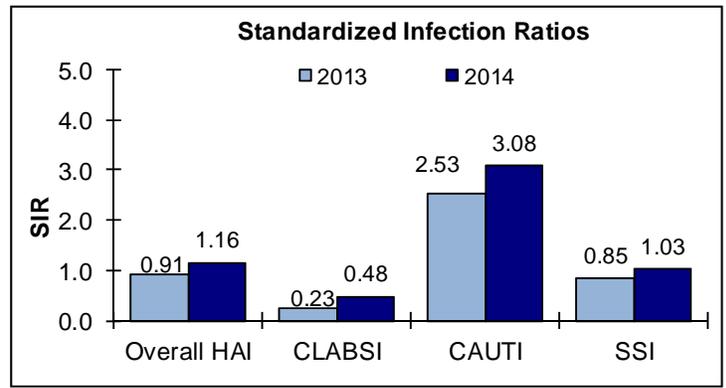
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- As of July 1, 2015, SCIP 2014 data reported to CMS was unavailable and the HAI Program was unable to conduct further analysis of this measure as routinely included in this report.



ELLIOT HOSPITAL
 Manchester, NH
 Not-for-profit
 # of Admissions: 14,906
 # of Beds: 280
 # of ICU Beds: 52
 # of Patient-days: 58,653

2014 HAI DATA REPORT



STANDARDIZED INFECTION RATIOS (SIR)

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall HAI	26	22.37	1.16	0.76 , 1.70	Similar
CLABSI	2	4.17	0.48	0.08 , 1.59	Similar
CAUTI	8	2.60	3.08	1.43 , 5.85	Higher
SSI	16	15.61	1.03	0.61 , 1.63	Similar
CABG					
COLO	10	9.82	1.02	0.52 , 1.82	Similar
HYST	0	2.10	0.00	- , 1.43	Similar
KPRO	6	3.69	1.63	0.66 , 3.39	Similar

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES

Type of Unit	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	0	1,509	0.0	0.8	Similar
Ped Med/Surg ICU	0	174	0.0	0.8	Similar

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES BY BIRTHWEIGHT IN NEONATAL INTENSIVE CARE UNITS

Birthweight Category	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
BW Category A	0	72	0.0	2.2	Similar
BW Category B	1	131	7.6	1.9	Similar
BW Category C	0	241	0.0	1.0	Similar
BW Category D	1	223	4.5	0.6	Similar
BW Category E	0	226	0.0	0.5	Similar

CATHETER-ASSOCIATED URINARY TRACT INFECTION RATES

Type of Unit	Number of Infections	Number of Catheter Days	Rate per 1,000 Catheter Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	7	2,125	3.3	1.7	Similar
Ped Med/Surg ICU	1	58	17.2	3.4	Similar

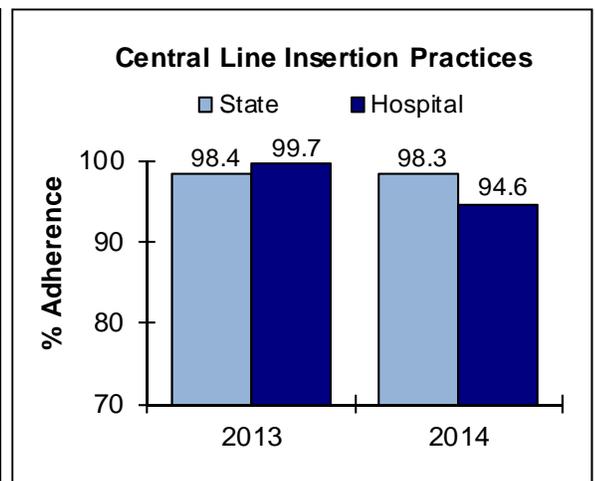
BW Category A: Equal or less than 750 grams BW Category B: Equal and between 751 and 1,000 grams BW Category C: Equal and between 1,001 and 1,500 grams BW Category D: Equal and between 1,501 and 2,500 grams BW Category E: More than 2,500 grams

HAI: Healthcare-associated infection CLABSI: Central line-associated bloodstream infection CAUTI: Catheter-associated urinary tract infection SSI: Surgical site infection COLO: Colon procedure HYST: Abdominal hysterectomy CABG: Coronary artery bypass graft KPRO: Knee arthroplasty

ELLIOT HOSPITAL 2014 DATA REPORT

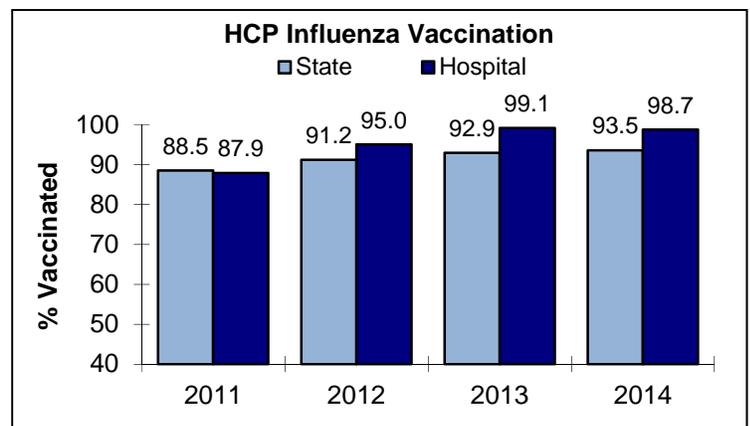
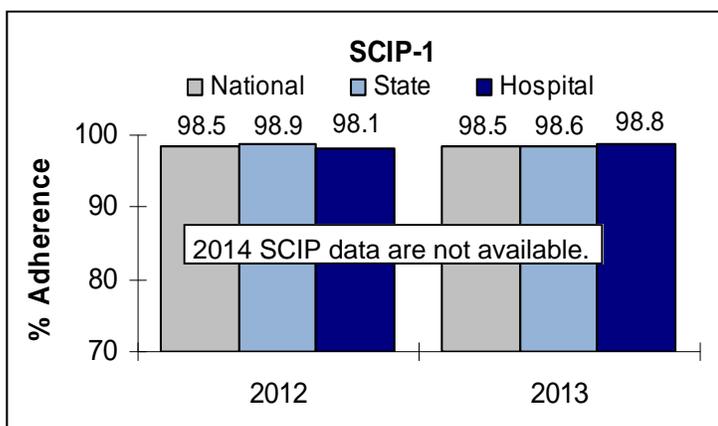
PROCESS MEASURES

Measure	Percent Adherence	State Coverage	Comparison to State Coverage
CLIP	94.6	98.3	Lower
SCIP-1	Note: 2014 SCIP data were not available at time of publication and as a result are excluded from this report.		
SCIP-2			
SCIP-3			
Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	98.7	93.5	Higher



INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
YES	Medical, Religious	Wear a mask	Progressive discipline, potentially including termination



SCIP: Surgical care improvement project

CLIP: Central line insertion practices

DATA NOTES:

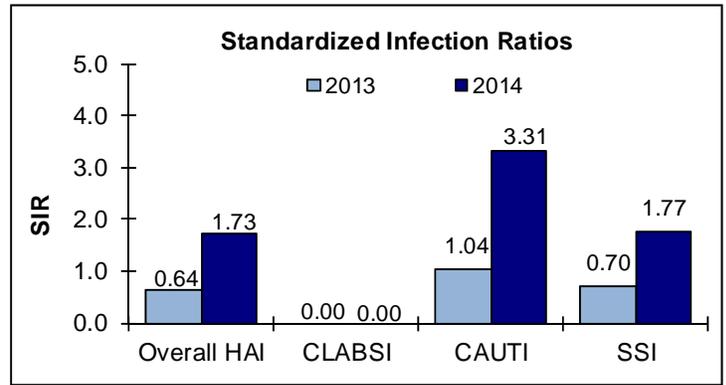
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EXETER HOSPITAL

Exeter, NH
 Not-for-profit
 # of Admissions: 4,898
 # of Beds: 100
 # of ICU Beds: 10
 # of Patient-days: 20,908

2014 HAI DATA REPORT



STANDARDIZED INFECTION RATIOS (SIR)

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall HAI	20	11.54	1.73	1.06 , 2.68	Higher
CLABSI	0	1.80	0.00	- , 1.66	Similar
CAUTI	6	1.81	3.31	1.34 , 6.89	Higher
SSI	14	7.92	1.77	1.01 , 2.89	Higher
CABG					
COLO	12	5.91	2.03	1.10 , 3.45	Higher
HYST	†	†	†	†	†
KPRO	2	1.75	1.14	0.19 , 3.77	Similar

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES

Type of Unit	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	0	1,200	0.0	0.8	Similar

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES BY BIRTHWEIGHT IN NEONATAL INTENSIVE CARE UNITS

Birthweight Category	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
BW Category A					
BW Category B					
BW Category C					
BW Category D					
BW Category E					

CATHETER-ASSOCIATED URINARY TRACT INFECTION RATES

Type of Unit	Number of Infections	Number of Catheter Days	Rate per 1,000 Catheter Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	6	1,394	4.3	1.3	Higher

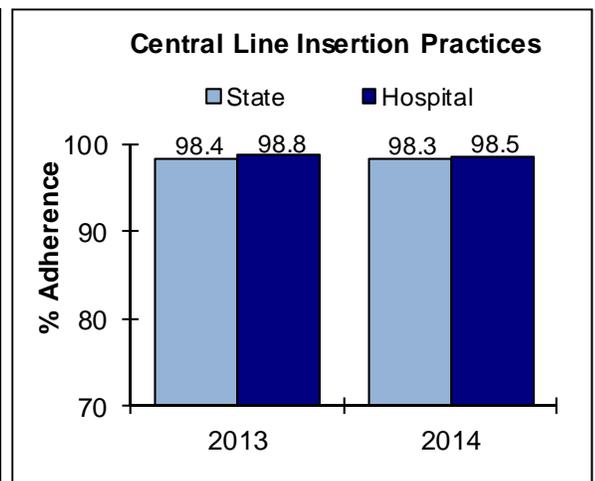
BW Category A: Equal or less than 750 grams BW Category B: Equal and between 751 and 1,000 grams BW Category C: Equal and between 1,001 and 1,500 grams BW Category D: Equal and between 1,501 and 2,500 grams BW Category E: More than 2,500 grams

HAI: Healthcare-associated infection CLABSI: Central line-associated bloodstream infection CAUTI: Catheter-associated urinary tract infection SSI: Surgical site infection COLO: Colon procedure HYST: Abdominal hysterectomy CABG: Coronary artery bypass graft KPRO: Knee arthroplasty

EXETER HOSPITAL 2014 DATA REPORT

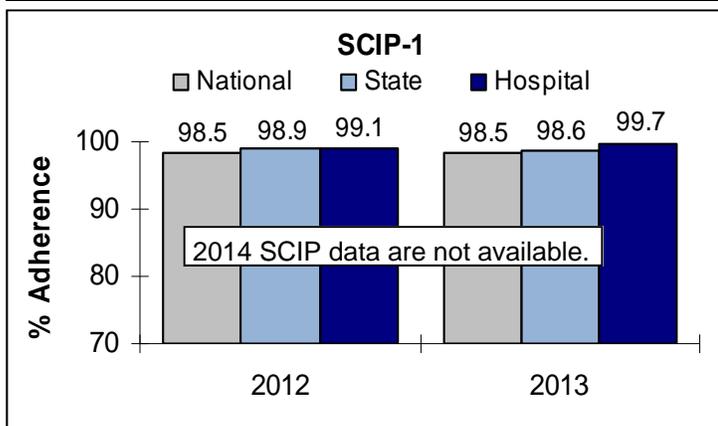
PROCESS MEASURES

Measure	Percent Adherence	State Coverage	Comparison to State Coverage
CLIP	98.5	98.3	Similar
SCIP-1	Note: 2014 SCIP data were not available at time of publication and as a result are excluded from this report.		
SCIP-2			
SCIP-3			
Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	94.2	93.5	Similar

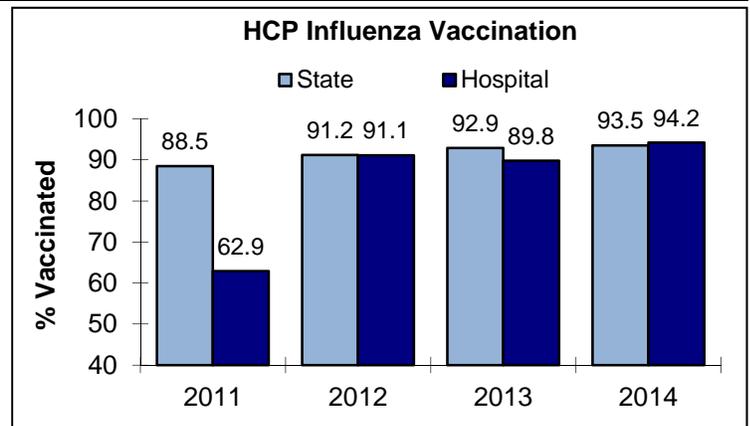


INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
YES	Medical, Personal/philosophical, Other	Wear a mask	Wear a mask, Progressive discipline, potentially including termination



SCIP: Surgical care improvement project



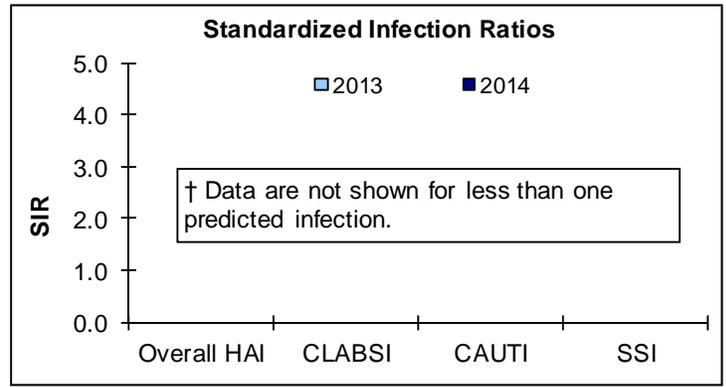
CLIP: Central line insertion practices

DATA NOTES:

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FRANKLIN REGIONAL
 Franklin, NH
 Not-for-profit
 # of Admissions: 869
 # of Beds: 40
 # of ICU Beds: 5
 # of Patient-days: 4,118
2014 HAI DATA REPORT



STANDARDIZED INFECTION RATIOS (SIR)

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall HAI	†	†	†	†	†
CLABSI	†	†	†	†	†
CAUTI	†	†	†	†	†
SSI	†	†	†	†	†
CABG					
COLO	†	†	†	†	†
HYST	†	†	†	†	†
KPRO	-	-	-	-	-

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES

Type of Unit	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	†	†	†	†	†

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES BY BIRTHWEIGHT IN NEONATAL INTENSIVE CARE UNITS

Birthweight Category	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
BW Category A					
BW Category B					
BW Category C					
BW Category D					
BW Category E					

CATHETER-ASSOCIATED URINARY TRACT INFECTION RATES

Type of Unit	Number of Infections	Number of Catheter Days	Rate per 1,000 Catheter Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	0	341	0.0	0.7	Similar

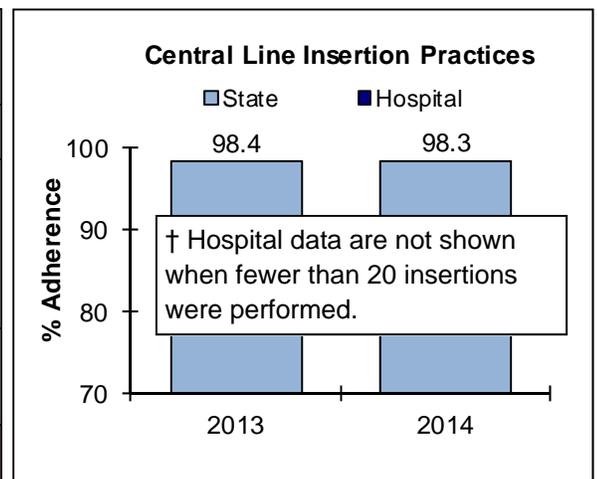
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HAI: Healthcare-associated infection CLABSI: Central line-associated bloodstream infection CAUTI: Catheter-associated urinary tract infection SSI: Surgical site infection COLO: Colon procedure HYST: Abdominal hysterectomy CABG: Coronary artery bypass graft KPRO: Knee arthroplasty

FRANKLIN REGIONAL 2014 DATA REPORT

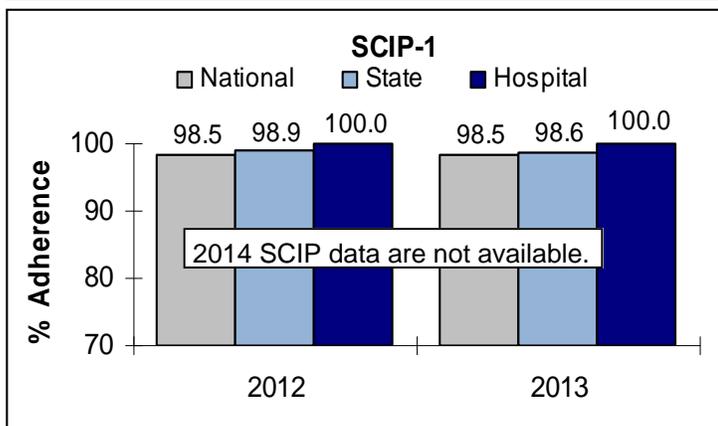
PROCESS MEASURES

Measure	Percent Adherence	State Coverage	Comparison to State Coverage
CLIP	†	98.3	†
SCIP-1	Note: 2014 SCIP data were not available at time of publication and as a result are excluded from this report.		
SCIP-2			
SCIP-3			
Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	87.8	93.5	Lower

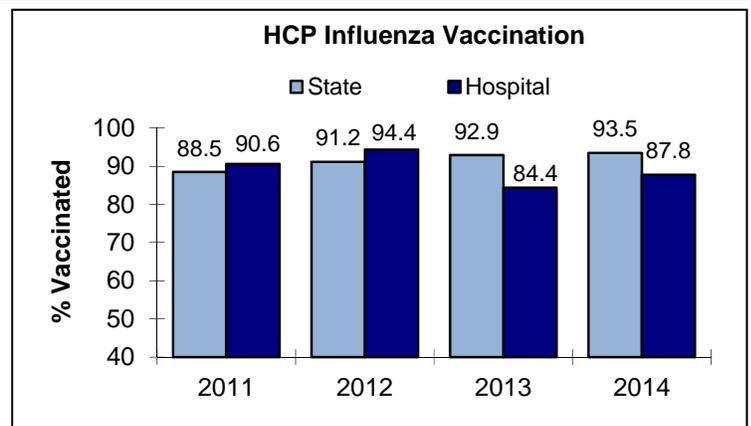


INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
YES	Medical, Religious, Personal/philosophical	Wear a mask, Receive verbal and/or written education	Wear a mask, Receive verbal and/or written education



SCIP: Surgical care improvement project



CLIP: Central line insertion practices

DATA NOTES:

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FRISBIE MEMORIAL HOSPITAL

Rochester, NH

Not-for-profit

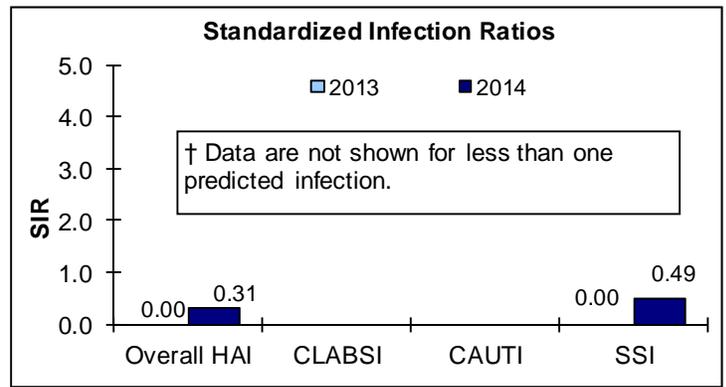
of Admissions: 3,202

of Beds: 50

of ICU Beds: 6

of Patient-days: 14,816

2014 HAI DATA REPORT



STANDARDIZED INFECTION RATIOS (SIR)

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall HAI	1	3.22	0.31	- , 1.73	Similar
CLABSI	†	†	†	†	†
CAUTI	†	†	†	†	†
SSI	1	2.05	0.49	0.02 , 2.41	Similar
CABG					
COLO	0	1.34	0.00	- , 2.24	Similar
HYST	†	†	†	†	†
KPRO	†	†	†	†	†

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES

Type of Unit	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	0	377	0.0	0.8	Similar

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES BY BIRTHWEIGHT IN NEONATAL INTENSIVE CARE UNITS

Birthweight Category	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
BW Category A					
BW Category B					
BW Category C					
BW Category D					
BW Category E					

CATHETER-ASSOCIATED URINARY TRACT INFECTION RATES

Type of Unit	Number of Infections	Number of Catheter Days	Rate per 1,000 Catheter Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	0	466	0.0	1.3	Similar

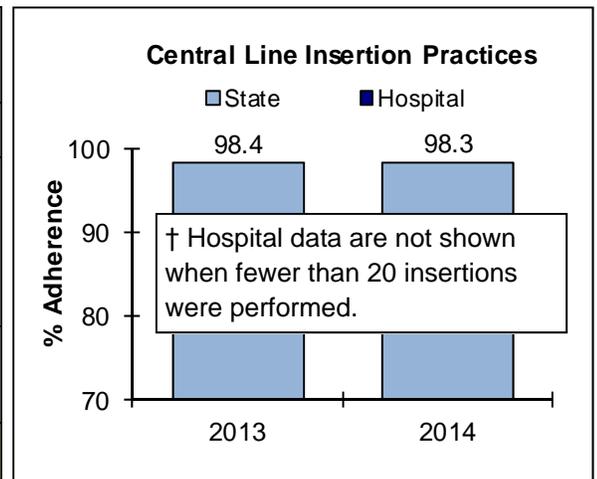
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FRISBIE MEMORIAL HOSPITAL 2014 DATA REPORT

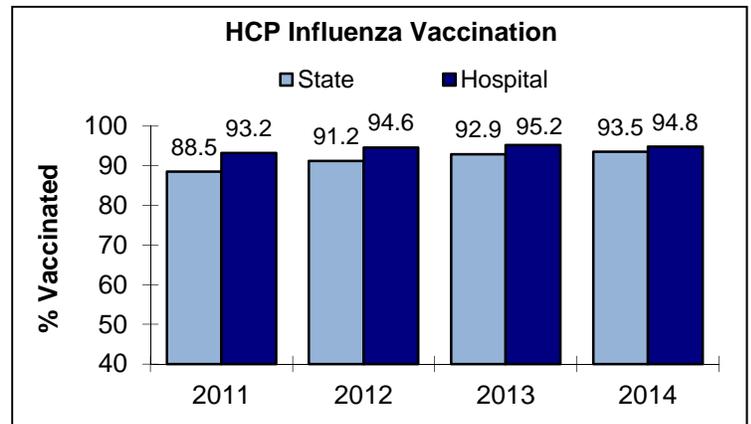
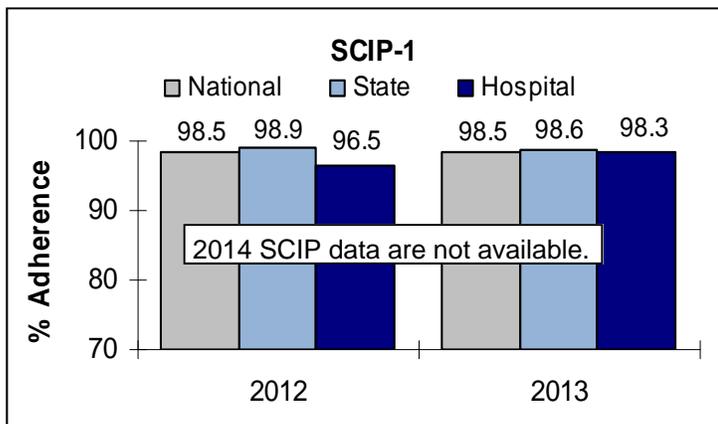
PROCESS MEASURES

Measure	Percent Adherence	State Coverage	Comparison to State Coverage
CLIP	†	98.3	†
SCIP-1	Note: 2014 SCIP data were not available at time of publication and as a result are excluded from this report.		
SCIP-2			
SCIP-3			
Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	94.8	93.5	Similar



INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
YES	Medical, Religious, Personal/philosophical	Wear a mask	Receive verbal and/or written education, Other



SCIP: Surgical care improvement project

CLIP: Central line insertion practices

DATA NOTES:

- The 2014 central line-associated blood stream infections (CLABSI), surgical site infections (SSI) and catheter-associated urinary tract infections (CAUTI) data presented in this report have not been validated and must be interpreted with the understanding that in general there are both under- and over-reporting of infections.
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- As of July 1, 2015, SCIP 2014 data reported to CMS was unavailable and the HAI Program was unable to conduct further analysis of this measure as routinely included in this report.



HUGGINS HOSPITAL

Wolfeboro, NH

Not-for-profit

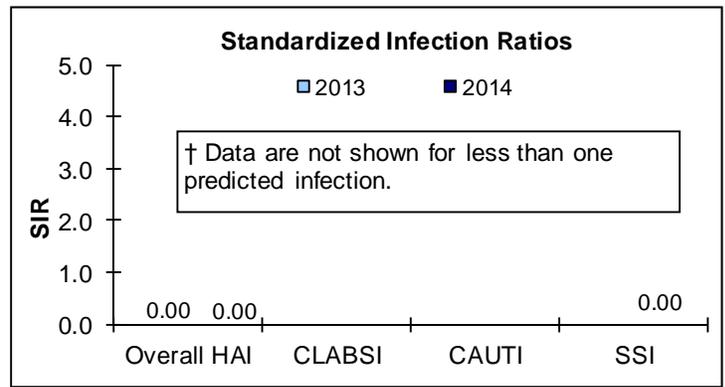
of Admissions: 724

of Beds: 25

of ICU Beds: 4

of Patient-days: 4,508

2014 HAI DATA REPORT



STANDARDIZED INFECTION RATIOS (SIR)

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall HAI	0	1.10	0.00	- , 3.33	Similar
CLABSI	†	†	†	†	†
CAUTI	†	†	†	†	†
SSI	†	†	†	†	†
CABG					
COLO	†	†	†	†	†
HYST	†	†	†	†	†
KPRO	†	†	†	†	†

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES

Type of Unit	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	0	113	0.0	0.5	Similar

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES BY BIRTHWEIGHT IN NEONATAL INTENSIVE CARE UNITS

Birthweight Category	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
BW Category A					
BW Category B					
BW Category C					
BW Category D					
BW Category E					

CATHETER-ASSOCIATED URINARY TRACT INFECTION RATES

Type of Unit	Number of Infections	Number of Catheter Days	Rate per 1,000 Catheter Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	0	297	0.0	0.7	Similar

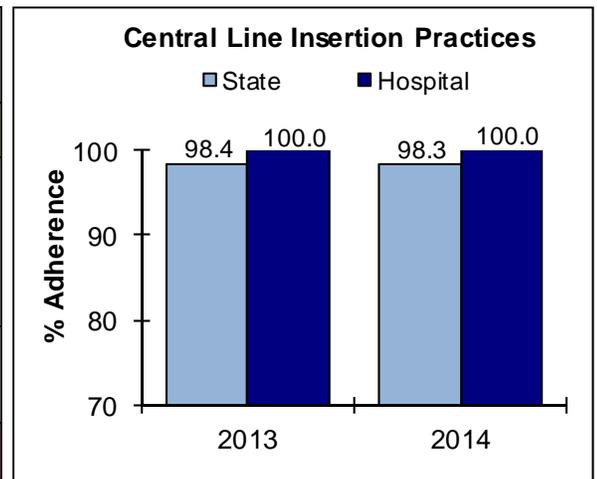
BW Category A: Equal or less than 750 grams BW Category B: Equal and between 751 and 1,000 grams BW Category C: Equal and between 1,001 and 1,500 grams BW Category D: Equal and between 1,501 and 2,500 grams BW Category E: More than 2,500 grams

HAI: Healthcare-associated infection CLABSI: Central line-associated bloodstream infection CAUTI: Catheter-associated urinary tract infection SSI: Surgical site infection COLO: Colon procedure HYST: Abdominal hysterectomy CABG: Coronary artery bypass graft KPRO: Knee arthroplasty

HUGGINS HOSPITAL 2014 DATA REPORT

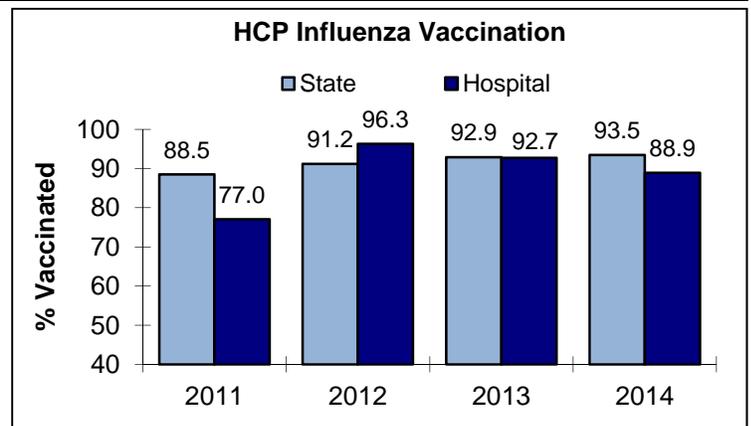
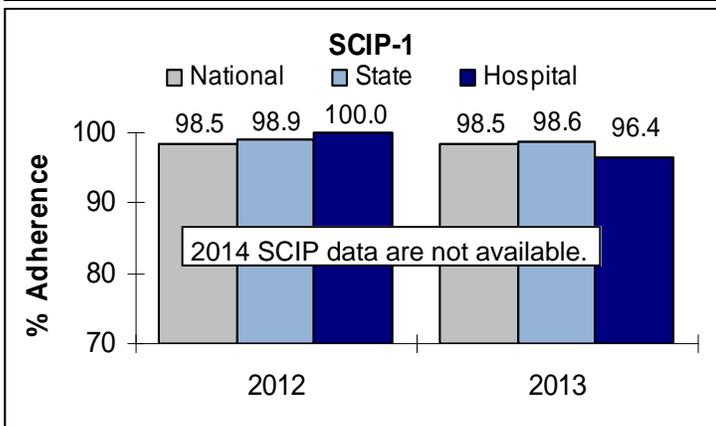
PROCESS MEASURES

Measure	Percent Adherence	State Coverage	Comparison to State Coverage
CLIP	100.0	98.3	Similar
SCIP-1	Note: 2014 SCIP data were not available at time of publication and as a result are excluded from this report.		
SCIP-2			
SCIP-3			
Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	88.9	93.5	Lower



INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
YES	Medical, Religious, Personal/philosophical	Wear a mask	Wear a mask, Receive verbal and/or written education



SCIP: Surgical care improvement project

CLIP: Central line insertion practices

DATA NOTES:

- The 2014 central line-associated blood stream infections (CLABSI), surgical site infections (SSI) and catheter-associated urinary tract infections (CAUTI) data presented in this report have not been validated and must be interpreted with the understanding that in general there are both under- and over-reporting of infections.
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- As of July 1, 2015, SCIP 2014 data reported to CMS was unavailable and the HAI Program was unable to conduct further analysis of this measure as routinely included in this report.



LAKES REGION GENERAL

Laconia, NH

Not-for-profit

of Admissions: 4,683

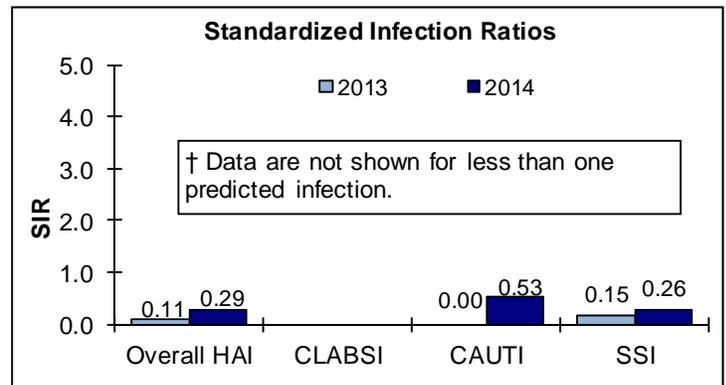
of Beds: 90

of ICU Beds: 10

of Patient-days: 22,899

2014 HAI DATA REPORT

STANDARDIZED INFECTION RATIOS (SIR)



Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall HAI	3	10.19	0.29	0.06 , 0.86	Lower
CLABSI	†	†	†	†	†
CAUTI	1	1.89	0.53	0.03 , 2.61	Similar
SSI	2	7.75	0.26	0.04 , 0.85	Lower
CABG					
COLO	0	4.30	0.00	- , 0.70	Lower
HYST	1.00	1.30	0.77	0.04 , 3.81	Similar
KPRO	1	2.15	0.47	0.02 , 2.29	Similar

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES

Type of Unit	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	0	361	0.0	0.8	Similar

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES BY BIRTHWEIGHT IN NEONATAL INTENSIVE CARE UNITS

Birthweight Category	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
BW Category A					
BW Category B					
BW Category C					
BW Category D					
BW Category E					

CATHETER-ASSOCIATED URINARY TRACT INFECTION RATES

Type of Unit	Number of Infections	Number of Catheter Days	Rate per 1,000 Catheter Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	1	1,456	0.7	1.3	Similar

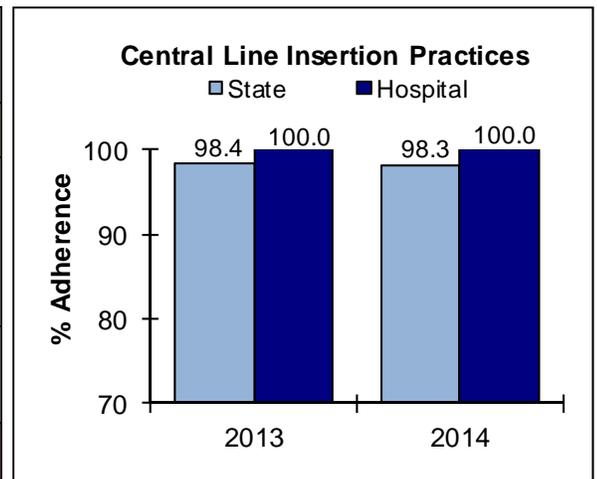
BW Category A: Equal or less than 750 grams BW Category B: Equal and between 751 and 1,000 grams BW Category C: Equal and between 1,001 and 1,500 grams BW Category D: Equal and between 1,501 and 2,500 grams BW Category E: More than 2,500 grams

HAI: Healthcare-associated infection CLABSI: Central line-associated bloodstream infection CAUTI: Catheter-associated urinary tract infection SSI: Surgical site infection COLO: Colon procedure HYST: Abdominal hysterectomy CABG: Coronary artery bypass graft KPRO: Knee arthroplasty

LAKES REGION GENERAL 2014 DATA REPORT

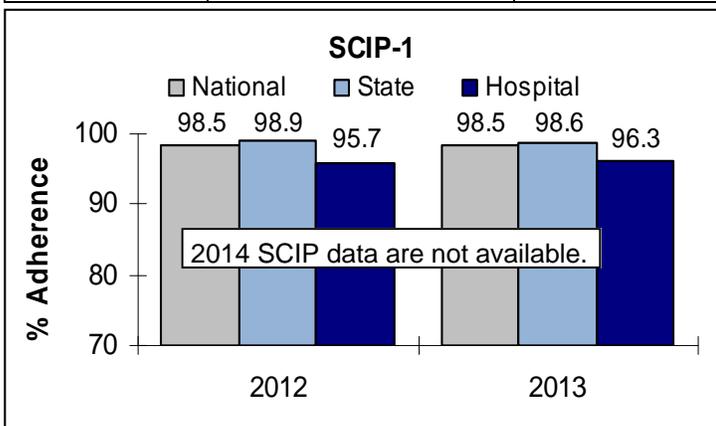
PROCESS MEASURES

Measure	Percent Adherence	State Coverage	Comparison to State Coverage
CLIP	100.0	98.3	Similar
SCIP-1	Note: 2014 SCIP data were not available at time of publication and as a result are excluded from this report.		
SCIP-2			
SCIP-3			
Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	91.7	93.5	Lower

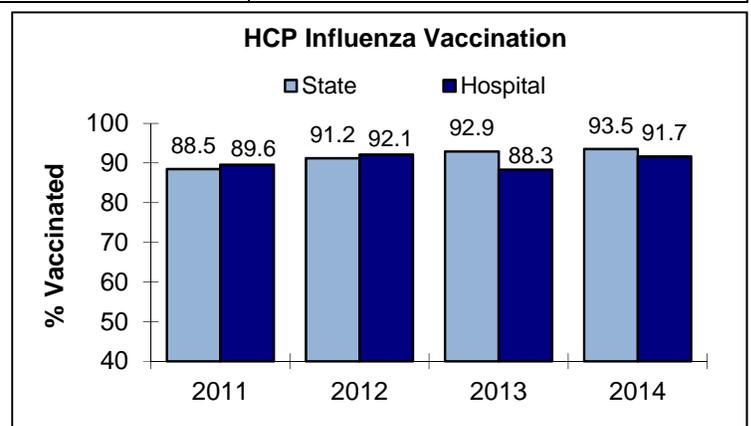


INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
YES	Medical, Religious, Personal/philosophical	Wear a mask, Receive verbal and/or written education	Wear a mask, Receive verbal and/or written education



SCIP: Surgical care improvement project



CLIP: Central line insertion practices

DATA NOTES:

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LITTLETON REGIONAL

Littleton, NH

Not-for-profit

of Admissions: 1,844

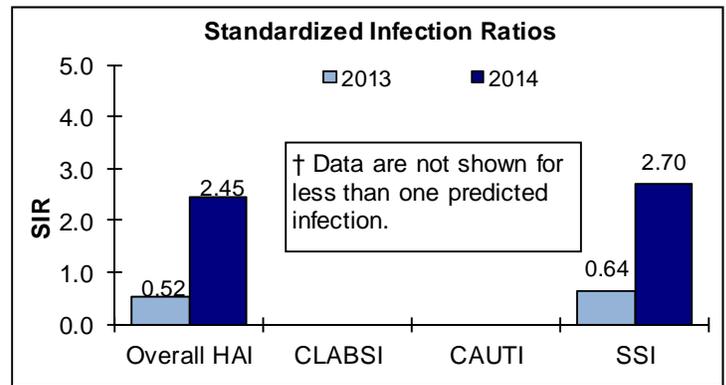
of Beds: 29

of ICU Beds: 4

of Patient-days: 4,695

2014 HAI DATA REPORT

STANDARDIZED INFECTION RATIOS (SIR)



Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall HAI	9	3.68	2.45	1.12 , 4.64	Higher
CLABSI	†	†	†	†	†
CAUTI	†	†	†	†	†
SSI	9	3.33	2.70	1.32 , 4.96	Higher
CABG					
COLO	5	1.74	2.87	1.05 , 6.36	Higher
HYST	†	†	†	†	†
KPRO	†	†	†	†	†

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES

Type of Unit	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	0	105	0.0	0.5	Similar

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES BY BIRTHWEIGHT IN NEONATAL INTENSIVE CARE UNITS

Birthweight Category	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
BW Category A					
BW Category B					
BW Category C					
BW Category D					
BW Category E					

CATHETER-ASSOCIATED URINARY TRACT INFECTION RATES

Type of Unit	Number of Infections	Number of Catheter Days	Rate per 1,000 Catheter Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	0	147	0.0	0.7	Similar

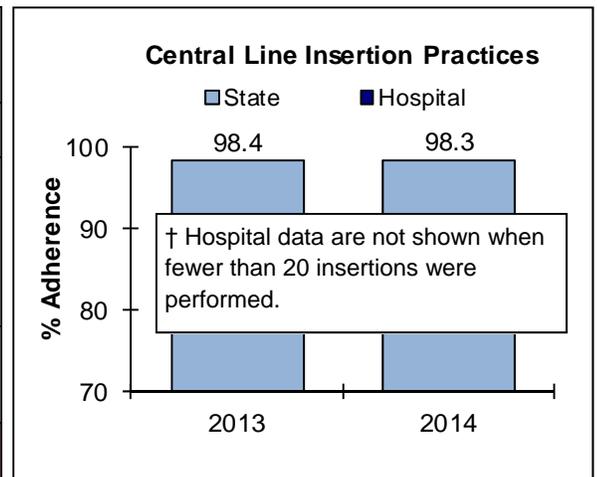
BW Category A: Equal or less than 750 grams BW Category B: Equal and between 751 and 1,000 grams BW Category C: Equal and between 1,001 and 1,500 grams BW Category D: Equal and between 1,501 and 2,500 grams BW Category E: More than 2,500 grams

HAI: Healthcare-associated infection CLABSI: Central line-associated bloodstream infection CAUTI: Catheter-associated urinary tract infection SSI: Surgical site infection COLO: Colon procedure HYST: Abdominal hysterectomy CABG: Coronary artery bypass graft KPRO: Knee arthroplasty

LITTLETON REGIONAL 2014 DATA REPORT

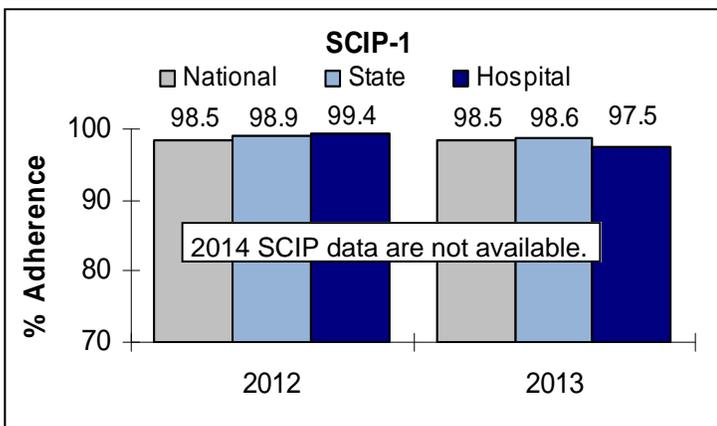
PROCESS MEASURES

Measure	Percent Adherence	State Coverage	Comparison to State Coverage
CLIP	†	98.3	†
SCIP-1	Note: 2014 SCIP data were not available at time of publication and as a result are excluded from this report.		
SCIP-2			
SCIP-3			
Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	88.6	93.5	Lower

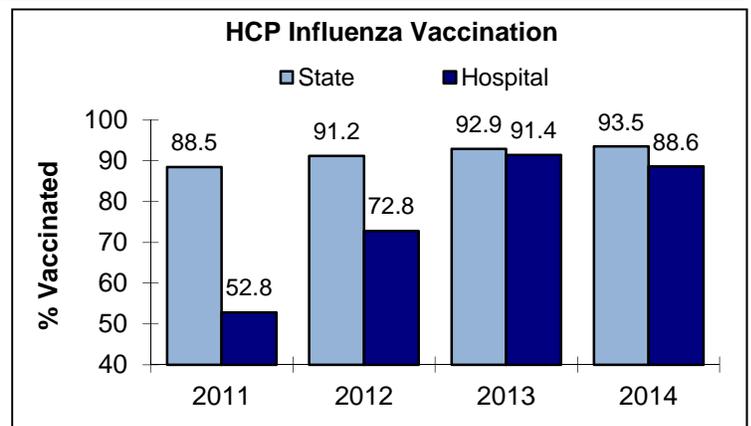


INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
YES	Medical, Religious	Wear a mask	Progressive discipline, potentially including termination



SCIP: Surgical care improvement project



CLIP: Central line insertion practices

DATA NOTES:

- The 2014 central line-associated blood stream infections (CLABSI), surgical site infections (SSI) and catheter-associated urinary tract infections (CAUTI) data presented in this report have not been validated and must be interpreted with the understanding that in general there are both under- and over-reporting of infections.
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MONADNOCK COMMUNITY

Peterborough, NH

Not-for-profit

of Admissions: 2,229

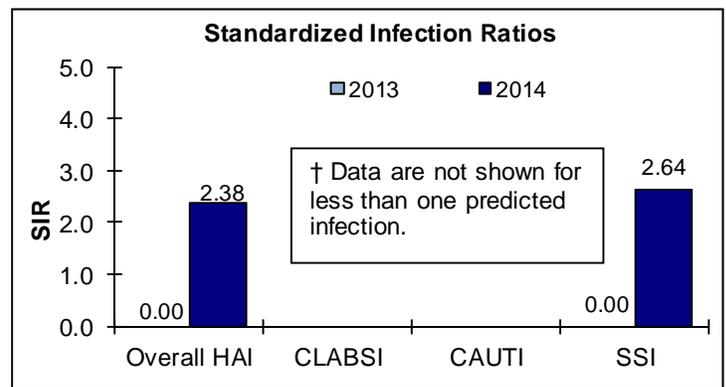
of Beds: 25

of ICU Beds: 2

of Patient-days: 5,983

2014 HAI DATA REPORT

STANDARDIZED INFECTION RATIOS (SIR)



Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall HAI	4	1.68	2.38	0.64 , 6.10	Similar
CLABSI	†	†	†	†	†
CAUTI	†	†	†	†	†
SSI	4	1.51	2.64	0.84 , 6.38	Similar
CABG					
COLO	†	†	†	†	†
HYST	†	†	†	†	†
KPRO	†	†	†	†	†

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES

Type of Unit	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	†	†	†	†	†

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES BY BIRTHWEIGHT IN NEONATAL INTENSIVE CARE UNITS

Birthweight Category	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
BW Category A					
BW Category B					
BW Category C					
BW Category D					
BW Category E					

CATHETER-ASSOCIATED URINARY TRACT INFECTION RATES

Type of Unit	Number of Infections	Number of Catheter Days	Rate per 1,000 Catheter Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	0	117	0.0	0.7	Similar

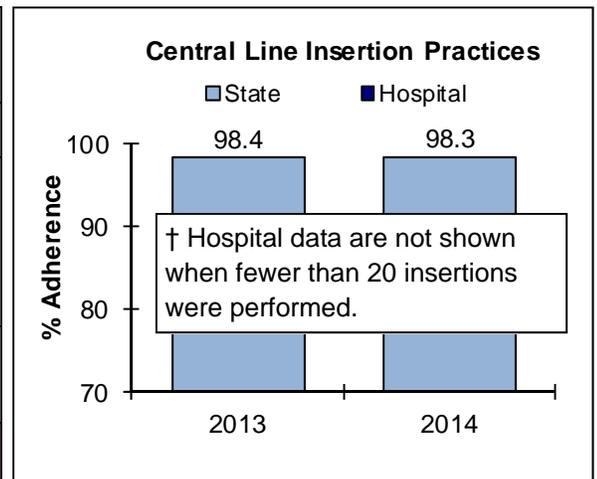
BW Category A: Equal or less than 750 grams BW Category B: Equal and between 751 and 1,000 grams BW Category C: Equal and between 1,001 and 1,500 grams BW Category D: Equal and between 1,501 and 2,500 grams BW Category E: More than 2,500 grams

HAI: Healthcare-associated infection CLABSI: Central line-associated bloodstream infection CAUTI: Catheter-associated urinary tract infection SSI: Surgical site infection COLO: Colon procedure HYST: Abdominal hysterectomy CABG: Coronary artery bypass graft KPRO: Knee arthroplasty

MONADNOCK COMMUNITY 2014 DATA REPORT

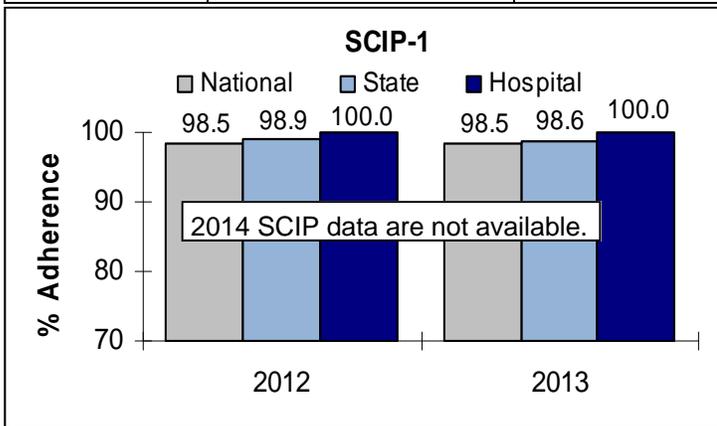
PROCESS MEASURES

Measure	Percent Adherence	State Coverage	Comparison to State Coverage
CLIP	†	98.3	†
SCIP-1	Note: 2014 SCIP data were not available at time of publication and as a result are excluded from this report.		
SCIP-2			
SCIP-3			
Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	89.7	93.5	Lower

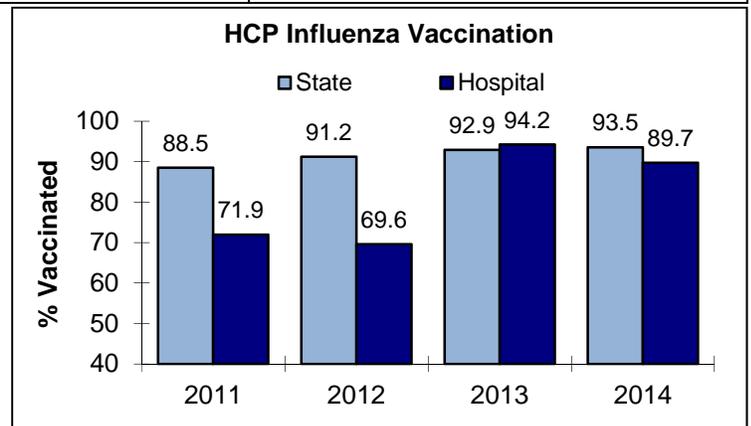


INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
YES	Medical, Religious	Wear a mask, Receive verbal and/or written education	Wear a mask, Progressive discipline, potentially including termination, Receive verbal and/or written education



SCIP: Surgical care improvement project



CLIP: Central line insertion practices

DATA NOTES:

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NEW LONDON HOSPITAL

New London, NH

For-profit

of Admissions: 1,260

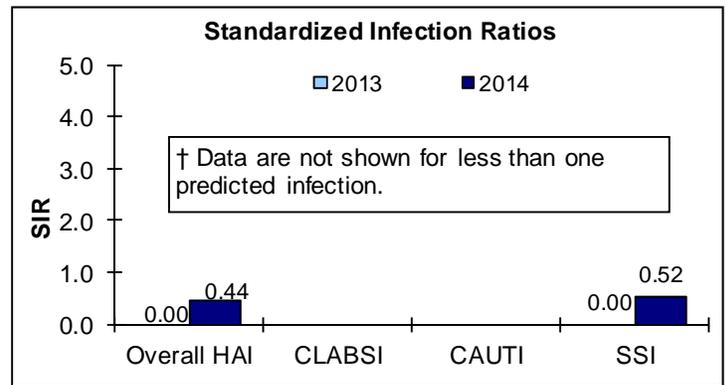
of Beds: 25

of ICU Beds: 21

of Patient-days: 6,271

2014 HAI DATA REPORT

STANDARDIZED INFECTION RATIOS (SIR)



Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall HAI	1	2.29	0.44	0.01 , 2.43	Similar
CLABSI	†	†	†	†	†
CAUTI	†	†	†	†	†
SSI	1	1.91	0.52	0.03 , 2.58	Similar
CABG					
COLO	†	†	†	†	†
HYST	†	†	†	†	†
KPRO	†	†	†	†	†

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES

Type of Unit	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	†	†	†	†	†

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES BY BIRTHWEIGHT IN NEONATAL INTENSIVE CARE UNITS

Birthweight Category	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
BW Category A					
BW Category B					
BW Category C					
BW Category D					
BW Category E					

CATHETER-ASSOCIATED URINARY TRACT INFECTION RATES

Type of Unit	Number of Infections	Number of Catheter Days	Rate per 1,000 Catheter Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	0	272	0.0	0.7	Similar

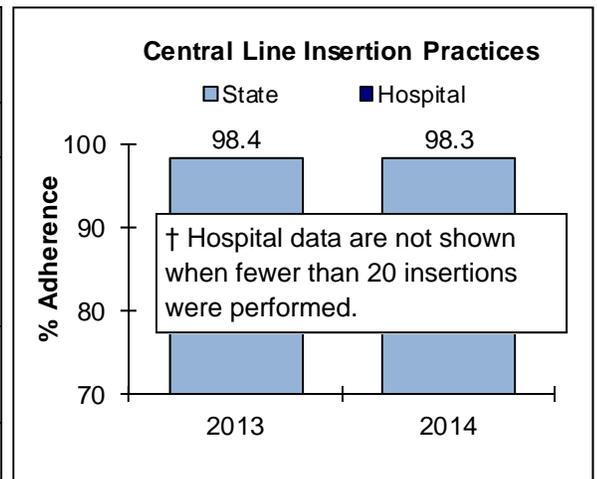
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NEW LONDON HOSPITAL 2014 DATA REPORT

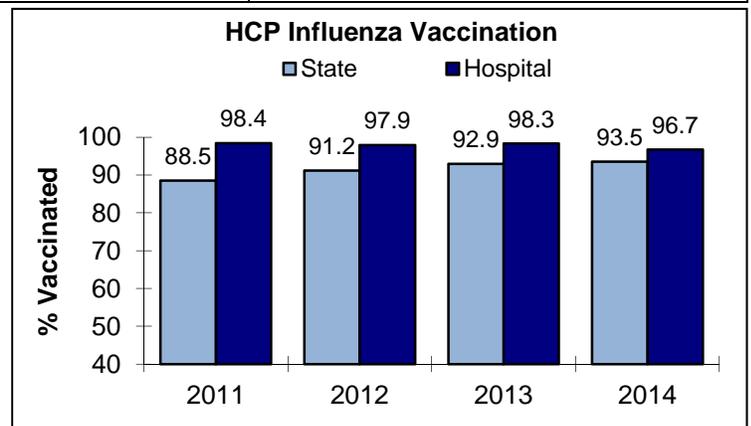
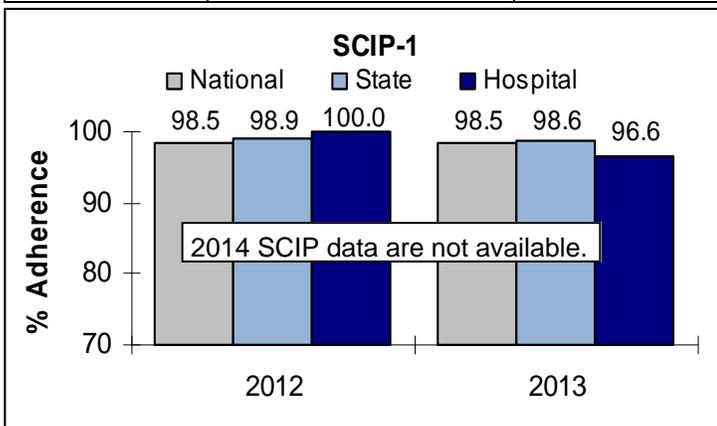
PROCESS MEASURES

Measure	Percent Adherence	State Coverage	Comparison to State Coverage
CLIP	†	98.3	†
SCIP-1	Note: 2014 SCIP data were not available at time of publication and as a result are excluded from this report.		
SCIP-2			
SCIP-3			
Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	96.7	93.5	Higher



INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

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CLIP: Central line insertion practices

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PARKLAND MEDICAL CENTER

Derry, NH

For-profit

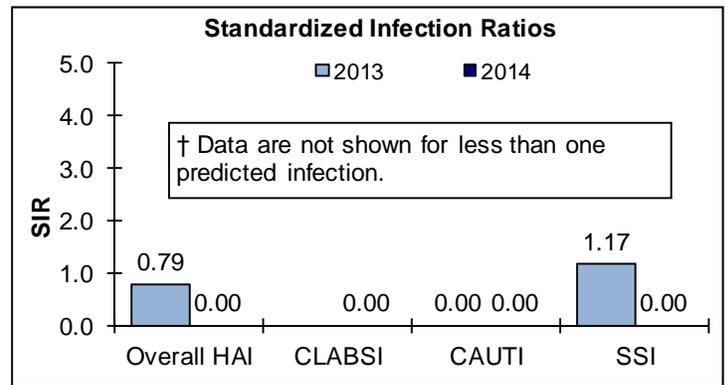
of Admissions: 3,343

of Beds: 86

of ICU Beds: 8

of Patient-days: 12,201

2014 HAI DATA REPORT



STANDARDIZED INFECTION RATIOS (SIR)

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall HAI	0	5.57	0.00	- , 0.66	Lower
CLABSI	0	1.16	0.00	- , 2.59	Similar
CAUTI	0	1.43	0.00	- , 2.09	Similar
SSI	0	2.98	0.00	- , 1.01	Similar
CABG					
COLO	0	2.31	0.00	- , 1.30	Similar
HYST	†	†	†	†	†
KPRO	†	†	†	†	†

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES

Type of Unit	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
Medical ICU	0	351	0.0	1.1	Similar
Medical/Surgical ICU	0	327	0.0	0.8	Similar

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES BY BIRTHWEIGHT IN NEONATAL INTENSIVE CARE UNITS

Birthweight Category	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
BW Category A					
BW Category B					
BW Category C					
BW Category D					
BW Category E					

CATHETER-ASSOCIATED URINARY TRACT INFECTION RATES

Type of Unit	Number of Infections	Number of Catheter Days	Rate per 1,000 Catheter Days	National Rate	Comparison to National Rate
Medical ICU	0	483	0.0	2.0	Similar
Medical/Surgical ICU	0	359	0.0	1.3	Similar

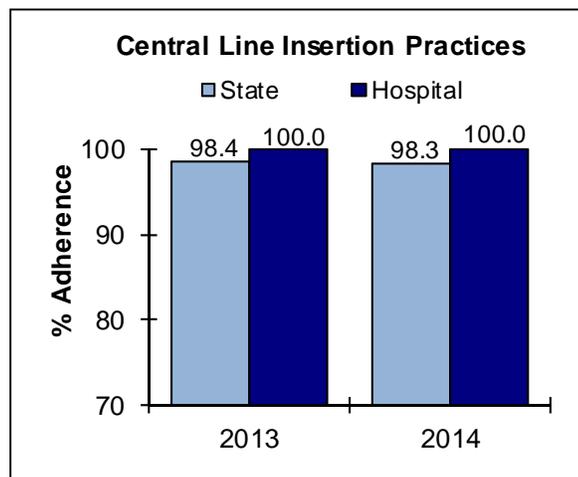
BW Category A: Equal or less than 750 grams BW Category B: Equal and between 751 and 1,000 grams BW Category C: Equal and between 1,001 and 1,500 grams BW Category D: Equal and between 1,501 and 2,500 grams BW Category E: More than 2,500 grams

HAI: Healthcare-associated infection CLABSI: Central line-associated bloodstream infection CAUTI: Catheter-associated urinary tract infection SSI: Surgical site infection COLO: Colon procedure HYST: Abdominal hysterectomy CABG: Coronary artery bypass graft KPRO: Knee arthroplasty

PARKLAND MEDICAL CENTER 2014 DATA REPORT

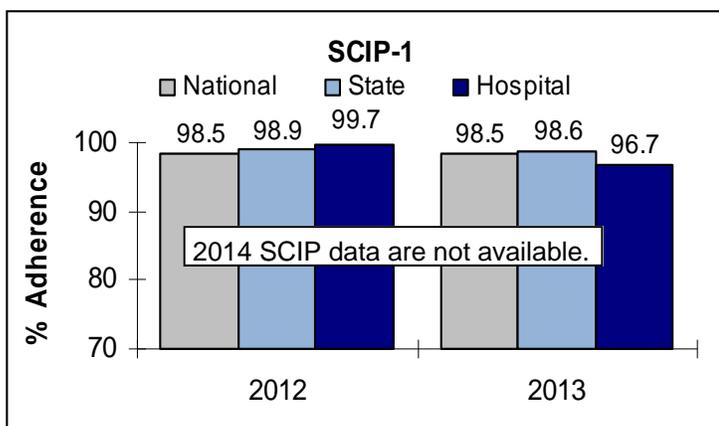
PROCESS MEASURES

Measure	Percent Adherence	State Coverage	Comparison to State Coverage
CLIP	100.0	98.3	Similar
SCIP-1	Note: 2014 SCIP data were not available at time of publication and as a result are excluded from this report.		
SCIP-2			
SCIP-3			
Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	95.3	93.5	Similar

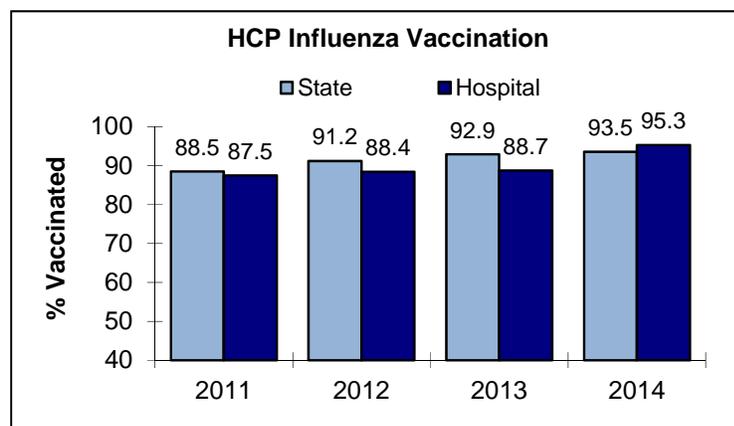


INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
YES	Medical, Religious	Wear a mask	Wear a mask, Receive verbal and/or written education



SCIP: Surgical care improvement project



CLIP: Central line insertion practices

DATA NOTES:

- The 2014 central line-associated blood stream infections (CLABSI), surgical site infections (SSI) and catheter-associated urinary tract infections (CAUTI) data presented in this report have not been validated and must be interpreted with the understanding that in general there are both under- and over-reporting of infections.
- In New Hampshire in 2014, CLABSI were monitored in all intensive care units (including pediatric and neonatal units) and not in other inpatient locations. CAUTI were monitored in all intensive care units (including pediatric units and excluding neonatal ICU) and not in other inpatient locations.
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- As of July 1, 2015, SCIP 2014 data reported to CMS was unavailable and the HAI Program was unable to conduct further analysis of this measure as routinely included in this report.



PORTSMOUTH REGIONAL

Portsmouth, NH

For-profit

of Admissions: 7,967

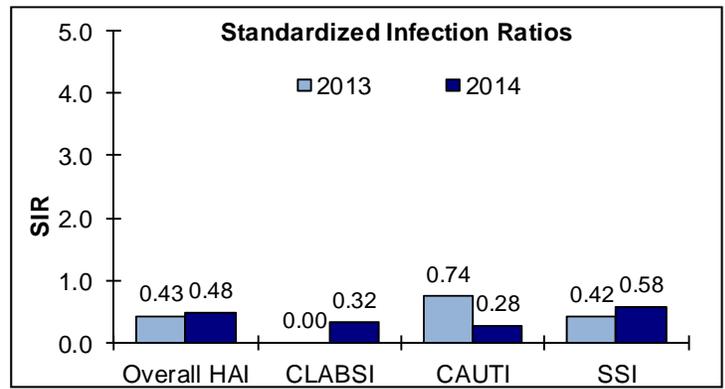
of Beds: 254

of ICU Beds: 14

of Patient-days: 36,552

2014 HAI DATA REPORT

STANDARDIZED INFECTION RATIOS (SIR)



Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall HAI	9	18.90	0.48	0.22 , 0.90	Lower
CLABSI	1	3.16	0.32	0.02 , 1.56	Similar
CAUTI	1	3.63	0.28	0.01 , 1.36	Similar
SSI	7	12.10	0.58	0.25 , 1.14	Similar
CABG	1	4.47	0.22	0.01 , 1.10	Similar
COLO	5	3.10	1.62	0.59 , 3.58	Similar
HYST	†	†	†	†	†
KPRO	1	3.62	0.28	0.01 , 1.36	Similar

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES

Type of Unit	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	1	2,106	0.5	0.8	Similar

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES BY BIRTHWEIGHT IN NEONATAL INTENSIVE CARE UNITS

Birthweight Category	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
BW Category A					
BW Category B					
BW Category C					
BW Category D					
BW Category E					

CATHETER-ASSOCIATED URINARY TRACT INFECTION RATES

Type of Unit	Number of Infections	Number of Catheter Days	Rate per 1,000 Catheter Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	1	2,795	0.4	1.3	Similar

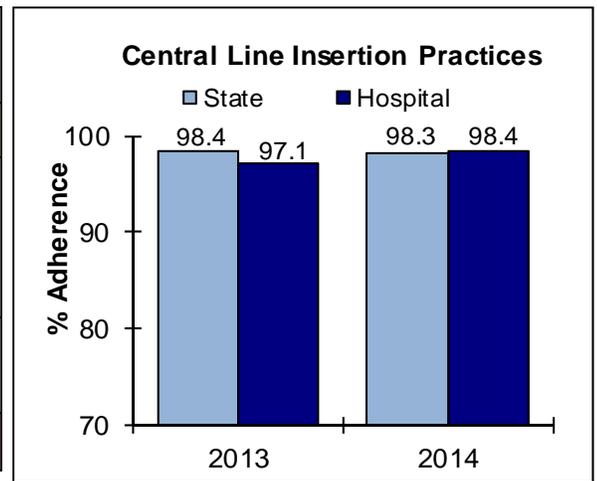
BW Category A: Equal or less than 750 grams BW Category B: Equal and between 751 and 1,000 grams BW Category C: Equal and between 1,001 and 1,500 grams BW Category D: Equal and between 1,501 and 2,500 grams BW Category E: More than 2,500 grams

HAI: Healthcare-associated infection CLABSI: Central line-associated bloodstream infection CAUTI: Catheter-associated urinary tract infection SSI: Surgical site infection COLO: Colon procedure HYST: Abdominal hysterectomy CABG: Coronary artery bypass graft KPRO: Knee arthroplasty

PORTSMOUTH REGIONAL 2014 DATA REPORT

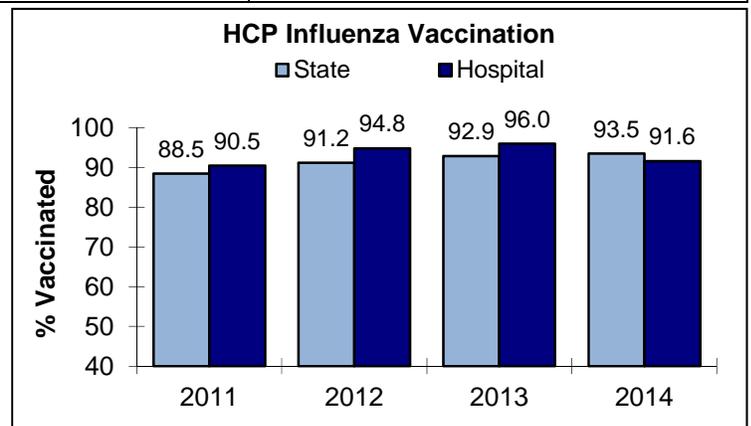
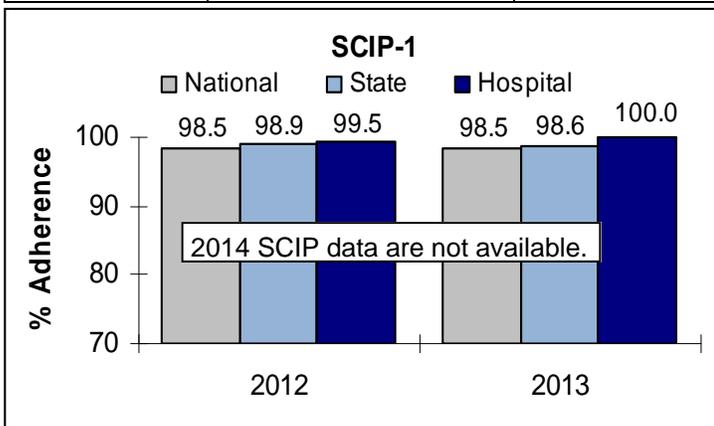
PROCESS MEASURES

Measure	Percent Adherence	State Coverage	Comparison to State Coverage
CLIP	98.4	98.3	Similar
SCIP-1	Note: 2014 SCIP data were not available at time of publication and as a result are excluded from this report.		
SCIP-2			
SCIP-3			
Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	91.6	93.5	Lower



INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
YES	Medical, Religious, Personal/philosophical	Wear a mask	Wear a mask



SCIP: Surgical care improvement project

CLIP: Central line insertion practices

DATA NOTES:

- The 2014 central line-associated blood stream infections (CLABSI), surgical site infections (SSI) and catheter-associated urinary tract infections (CAUTI) data presented in this report have not been validated and must be interpreted with the understanding that in general there are both under- and over-reporting of infections.
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- As of July 1, 2015, SCIP 2014 data reported to CMS was unavailable and the HAI Program was unable to conduct further analysis of this measure as routinely included in this report.



SOUTHERN NH MEDICAL

Nashua, NH

Not-for-profit

of Admissions: 12,578

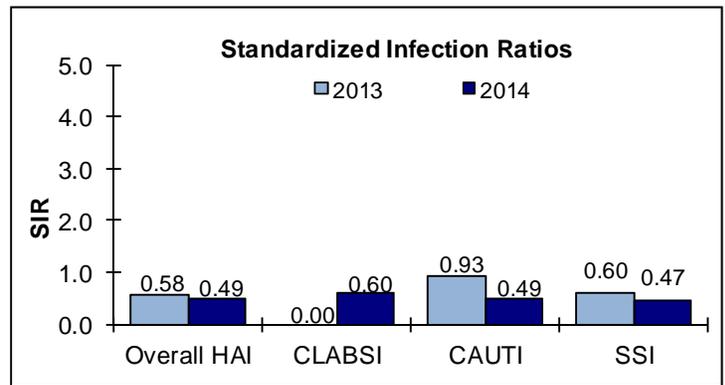
of Beds: 148

of ICU Beds: 20

of Patient-days: 32,436

2014 HAI DATA REPORT

STANDARDIZED INFECTION RATIOS (SIR)



Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall HAI	6	12.25	0.49	0.18 , 1.07	Similar
CLABSI	1	1.66	0.60	0.03 , 2.97	Similar
CAUTI	1	2.04	0.49	0.02 , 2.41	Similar
SSI	4	8.54	0.47	0.15 , 1.13	Similar
CABG					
COLO	2	5.27	0.38	0.06 , 1.25	Similar
HYST	0	1.44	0.00	- , 2.08	Similar
KPRO	2	1.83	1.09	0.18 , 3.61	Similar

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES

Type of Unit	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	1	1,085	0.9	0.8	Similar

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES BY BIRTHWEIGHT IN NEONATAL INTENSIVE CARE UNITS

Birthweight Category	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
BW Category A	†	†	†	†	†
BW Category B	†	†	†	†	†
BW Category C	†	†	†	†	†
BW Category D	†	†	†	†	†
BW Category E	†	†	†	†	†

CATHETER-ASSOCIATED URINARY TRACT INFECTION RATES

Type of Unit	Number of Infections	Number of Catheter Days	Rate per 1,000 Catheter Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	1	1,573	0.6	1.3	Similar

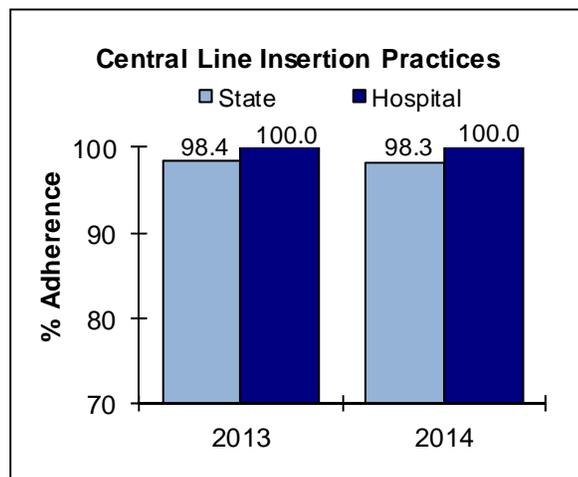
BW Category A: Equal or less than 750 grams BW Category B: Equal and between 751 and 1,000 grams BW Category C: Equal and between 1,001 and 1,500 grams BW Category D: Equal and between 1,501 and 2,500 grams BW Category E: More than 2,500 grams

HAI: Healthcare-associated infection CLABSI: Central line-associated bloodstream infection CAUTI: Catheter-associated urinary tract infection SSI: Surgical site infection COLO: Colon procedure HYST: Abdominal hysterectomy CABG: Coronary artery bypass graft KPRO: Knee arthroplasty

SOUTHERN NH MEDICAL 2014 DATA REPORT

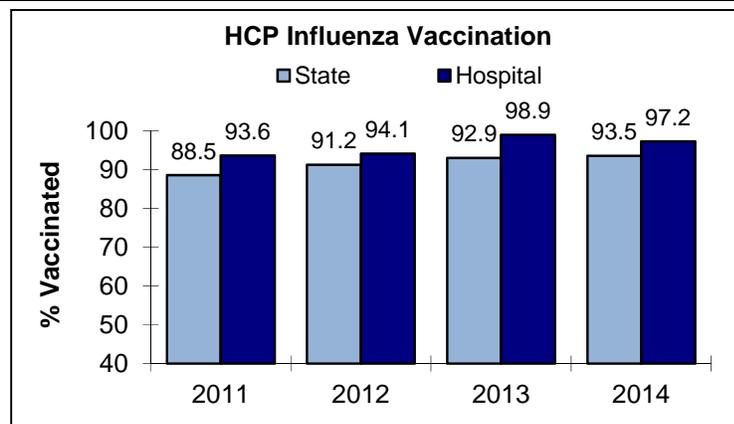
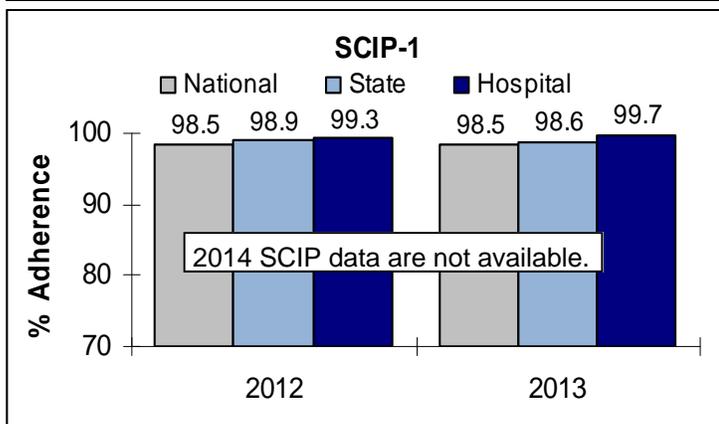
PROCESS MEASURES

Measure	Percent Adherence	State Coverage	Comparison to State Coverage
CLIP	100.0	98.3	Similar
SCIP-1	Note: 2014 SCIP data were not available at time of publication and as a result are excluded from this report.		
SCIP-2			
SCIP-3			
Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	97.2	93.5	Higher



INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
YES	Medical, Religious	Receive verbal and/or written education	Progressive discipline, potentially including termination



SCIP: Surgical care improvement project

CLIP: Central line insertion practices

DATA NOTES:

- The 2014 central line-associated blood stream infections (CLABSI), surgical site infections (SSI) and catheter-associated urinary tract infections (CAUTI) data presented in this report have not been validated and must be interpreted with the understanding that in general there are both under- and over-reporting of infections.
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SPEARE MEMORIAL HOSPITAL

Plymouth, NH

Not-for-profit

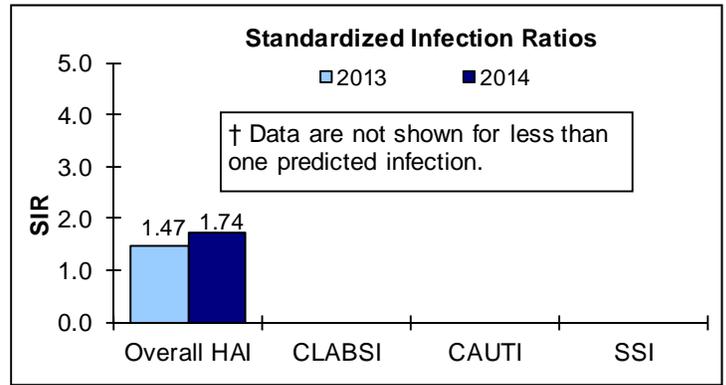
of Admissions: 1,537

of Beds: 25

of ICU Beds: 4

of Patient-days: 5,990

2014 HAI DATA REPORT



STANDARDIZED INFECTION RATIOS (SIR)

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall HAI	2	1.15	1.74	0.20 , 6.28	Similar
CLABSI	†	†	†	†	†
CAUTI	†	†	†	†	†
SSI	†	†	†	†	†
CABG					
COLO	†	†	†	†	†
HYST	†	†	†	†	†
KPRO	†	†	†	†	†

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES

Type of Unit	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	†	†	†	†	†

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES BY BIRTHWEIGHT IN NEONATAL INTENSIVE CARE UNITS

Birthweight Category	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
BW Category A					
BW Category B					
BW Category C					
BW Category D					
BW Category E					

CATHETER-ASSOCIATED URINARY TRACT INFECTION RATES

Type of Unit	Number of Infections	Number of Catheter Days	Rate per 1,000 Catheter Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	1	205	4.9	0.7	Similar

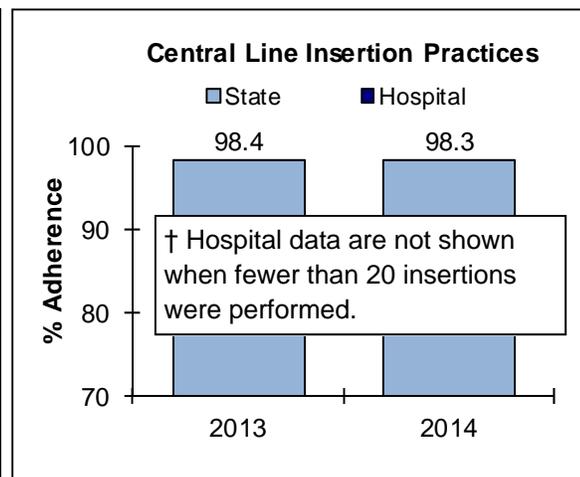
BW Category A: Equal or less than 750 grams BW Category B: Equal and between 751 and 1,000 grams BW Category C: Equal and between 1,001 and 1,500 grams BW Category D: Equal and between 1,501 and 2,500 grams BW Category E: More than 2,500 grams

HAI: Healthcare-associated infection CLABSI: Central line-associated bloodstream infection CAUTI: Catheter-associated urinary tract infection SSI: Surgical site infection COLO: Colon procedure HYST: Abdominal hysterectomy CABG: Coronary artery bypass graft KPRO: Knee arthroplasty

SPEARE MEMORIAL HOSPITAL 2014 DATA REPORT

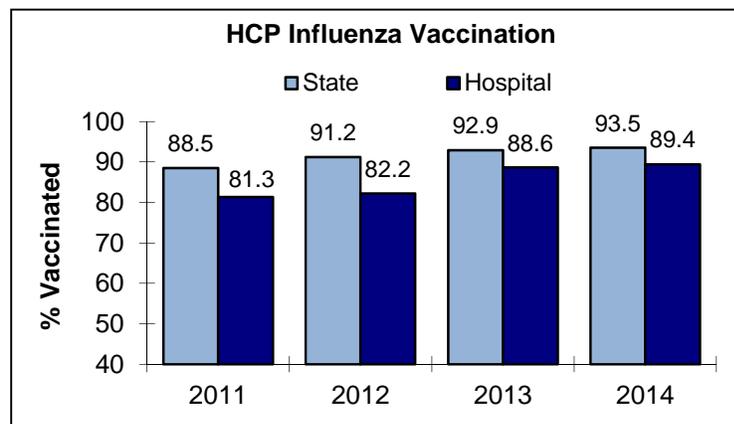
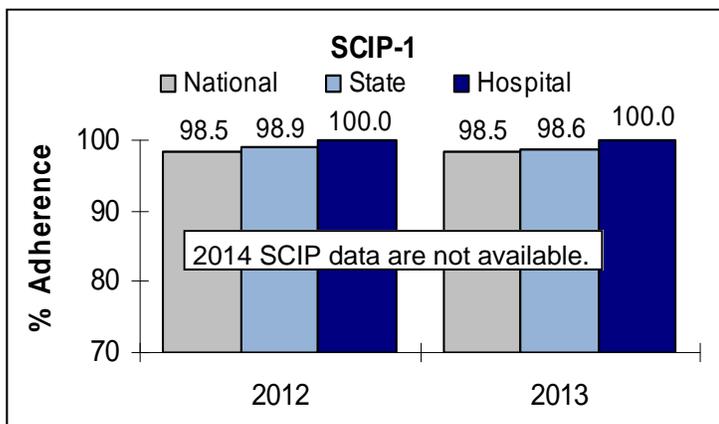
PROCESS MEASURES

Measure	Percent Adherence	State Coverage	Comparison to State Coverage
CLIP	†	98.3	†
SCIP-1	Note: 2014 SCIP data were not available at time of publication and as a result are excluded from this report.		
SCIP-2			
SCIP-3			
Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	89.4	93.5	Lower



INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
YES	Medical, Religious, Philosophical	Wear a mask, Receive verbal and/or written education	Wear a mask, Progressive discipline, potentially including termination



SCIP: Surgical care improvement project

CLIP: Central line insertion practices

DATA NOTES:

- The 2014 central line-associated blood stream infections (CLABSI), surgical site infections (SSI) and catheter-associated urinary tract infections (CAUTI) data presented in this report have not been validated and must be interpreted with the understanding that in general there are both under- and over-reporting of infections.
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ST JOSEPH HOSPITAL

Nashua, NH

Not-for-profit

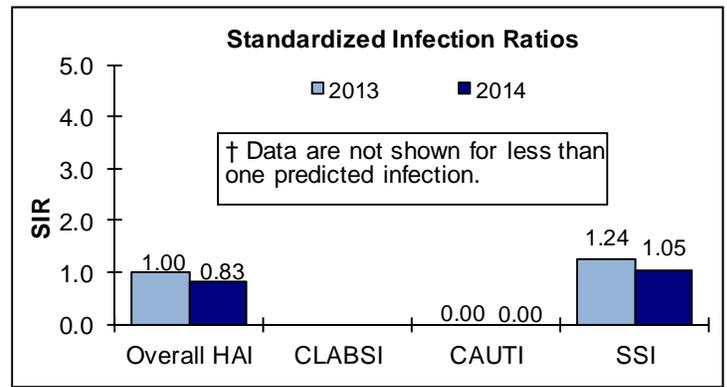
of Admissions: 6,028

of Beds: 125

of ICU Beds: 10

of Patient-days: 29,950

2014 HAI DATA REPORT



STANDARDIZED INFECTION RATIOS (SIR)

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall HAI	7	8.48	0.83	0.33 , 1.70	Similar
CLABSI	†	†	†	†	†
CAUTI	0	1.06	0.00	- , 2.82	Similar
SSI	7	6.66	1.05	0.46 , 2.08	Similar
CABG					
COLO	2	3.49	0.57	0.10 , 1.90	Similar
HYST	0	1.06	0.00	- , 2.82	Similar
KPRO	5	2.11	2.37	0.87 , 5.25	Similar

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES

Type of Unit	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	0	505	0.0	0.8	Similar

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES BY BIRTHWEIGHT IN NEONATAL INTENSIVE CARE UNITS

Birthweight Category	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
BW Category A					
BW Category B					
BW Category C					
BW Category D					
BW Category E					

CATHETER-ASSOCIATED URINARY TRACT INFECTION RATES

Type of Unit	Number of Infections	Number of Catheter Days	Rate per 1,000 Catheter Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	0	816	0.0	1.3	Similar

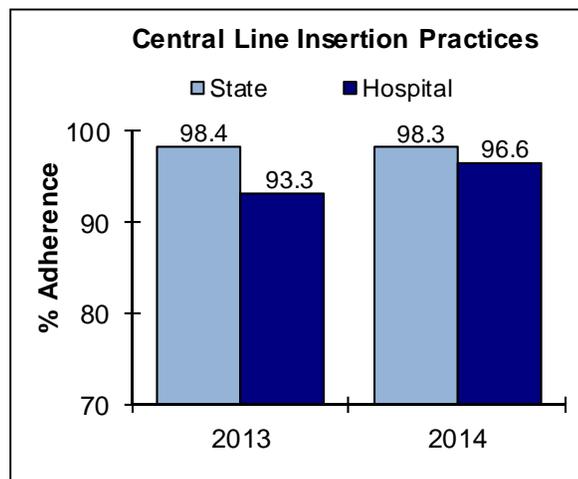
BW Category A: Equal or less than 750 grams BW Category B: Equal and between 751 and 1,000 grams BW Category C: Equal and between 1,001 and 1,500 grams BW Category D: Equal and between 1,501 and 2,500 grams BW Category E: More than 2,500 grams

HAI: Healthcare-associated infection CLABSI: Central line-associated bloodstream infection CAUTI: Catheter-associated urinary tract infection SSI: Surgical site infection COLO: Colon procedure HYST: Abdominal hysterectomy CABG: Coronary artery bypass graft KPRO: Knee arthroplasty

ST JOSEPH HOSPITAL 2014 DATA REPORT

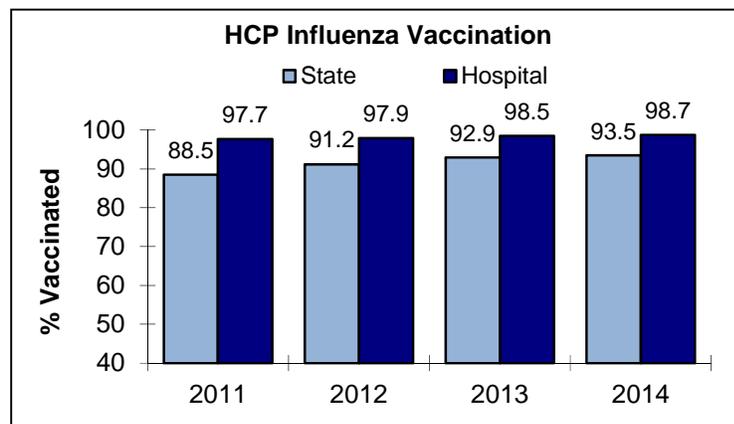
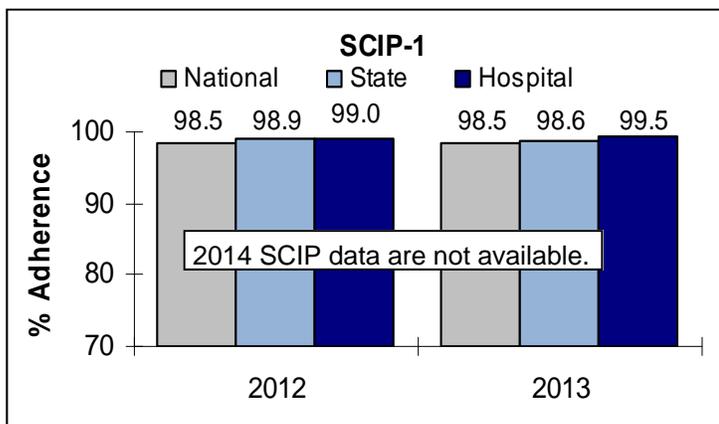
PROCESS MEASURES

Measure	Percent Adherence	State Coverage	Comparison to State Coverage
CLIP	96.6	98.3	Similar
SCIP-1	Note: 2014 SCIP data were not available at time of publication and as a result are excluded from this report.		
SCIP-2			
SCIP-3			
Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	98.7	93.5	Higher



INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
YES	Medical, Religious	Wear a mask, Receive verbal and/or written education	Progressive discipline, potentially including termination



SCIP: Surgical care improvement project

CLIP: Central line insertion practices

DATA NOTES:

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THE MEMORIAL HOSPITAL

North Conway, NH

Not-for-profit

of Admissions: 1,574

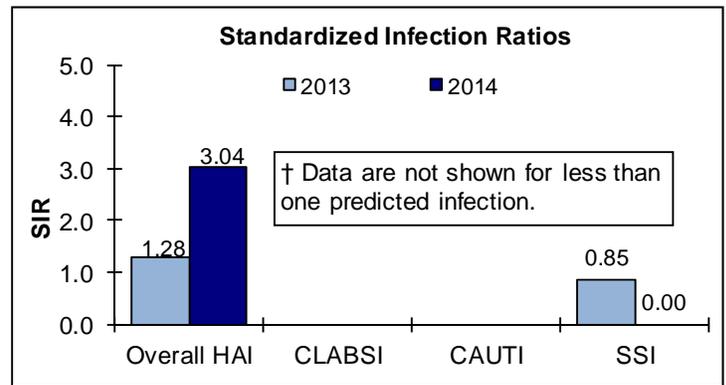
of Beds: 25

of ICU Beds: 3

of Patient-days: 5,490

2014 HAI DATA REPORT

STANDARDIZED INFECTION RATIOS (SIR)



Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall HAI	4	1.32	3.04	0.82 , 7.78	Similar
CLABSI	†	†	†	†	†
CAUTI	†	†	†	†	†
SSI	†	†	†	†	†
CABG					
COLO	†	†	†	†	†
HYST	†	†	†	†	†
KPRO	†	†	†	†	†

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES

Type of Unit	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
Medical ICU	†	†	†	†	†

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES BY BIRTHWEIGHT IN NEONATAL INTENSIVE CARE UNITS

Birthweight Category	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
BW Category A					
BW Category B					
BW Category C					
BW Category D					
BW Category E					

CATHETER-ASSOCIATED URINARY TRACT INFECTION RATES

Type of Unit	Number of Infections	Number of Catheter Days	Rate per 1,000 Catheter Days	National Rate	Comparison to National Rate
Medical ICU	0	131	0	0.7	Similar

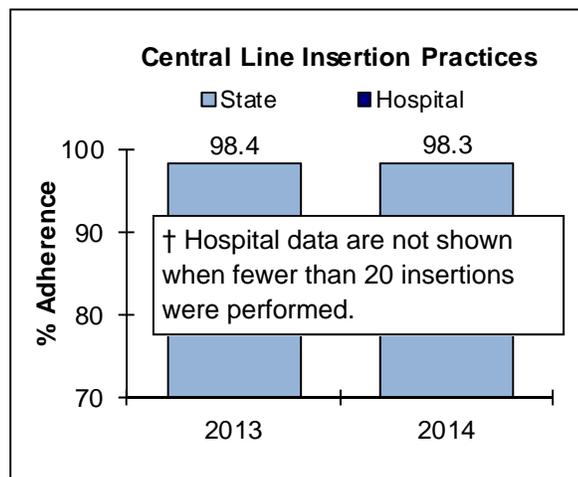
BW Category A: Equal or less than 750 grams BW Category B: Equal and between 751 and 1,000 grams BW Category C: Equal and between 1,001 and 1,500 grams BW Category D: Equal and between 1,501 and 2,500 grams BW Category E: More than 2,500 grams

HAI: Healthcare-associated infection CLABSI: Central line-associated bloodstream infection CAUTI: Catheter-associated urinary tract infection SSI: Surgical site infection COLO: Colon procedure HYST: Abdominal hysterectomy CABG: Coronary artery bypass graft KPRO: Knee arthroplasty

THE MEMORIAL HOSPITAL 2014 DATA REPORT

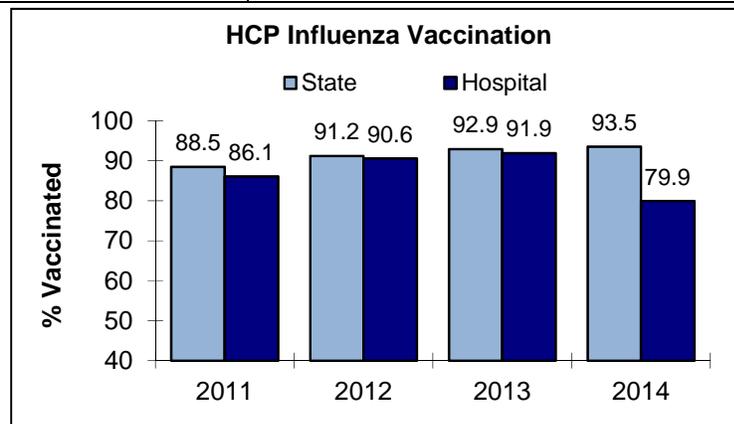
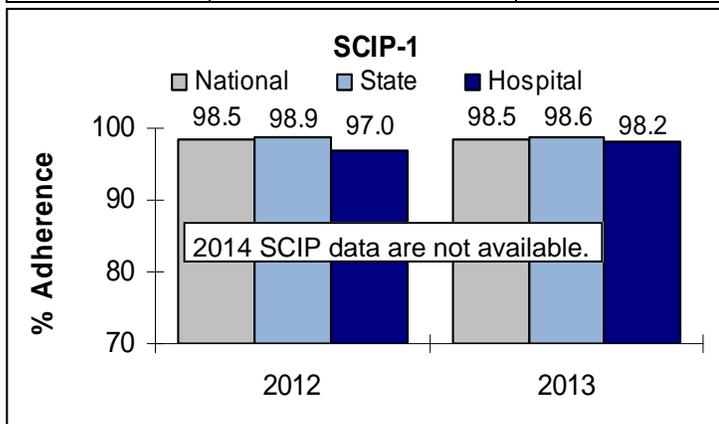
PROCESS MEASURES

Measure	Percent Adherence	State Coverage	Comparison to State Coverage
CLIP	†	98.3	†
SCIP-1	Note: 2014 SCIP data were not available at time of publication and as a result are excluded from this report.		
SCIP-2			
SCIP-3			
Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	79.9	93.5	Lower



INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
YES	Medical, Religious	Wear a mask	Wear a mask, Progressive discipline, potentially including termination



SCIP: Surgical care improvement project

CLIP: Central line insertion practices

DATA NOTES:

- The 2014 central line-associated blood stream infections (CLABSI), surgical site infections (SSI) and catheter-associated urinary tract infections (CAUTI) data presented in this report have not been validated and must be interpreted with the understanding that in general there are both under- and over-reporting of infections.
- In New Hampshire in 2014, CLABSI were monitored in all intensive care units (including pediatric and neonatal units) and not in other inpatient locations. CAUTI were monitored in all intensive care units (including pediatric units and excluding neonatal ICU) and not in other inpatient locations.
- Hospitals do not use a standard method of post-discharge surveillance to identify infections once a patient has been discharged. This poses a challenge for data interpretation, because a higher SSI rate (for example) at a given hospital may represent either poor infection prevention practices or, conversely, a better system for identifying infections.
- SSI reporting requires not only reporting of infections but also detailed information on every patient who underwent the procedure being monitored. As such, DHHS has elected to monitor a subset of procedures based on national recommendations since it would not be feasible for hospitals to report information on every patient receiving a surgical procedure due to the burden of reporting.
- As of July 1, 2015, SCIP 2014 data reported to CMS was unavailable and the HAI Program was unable to conduct further analysis of this measure as routinely included in this report.



UPPER CONNECTICUT VALLEY

Colebrook, NH

Not-for-profit

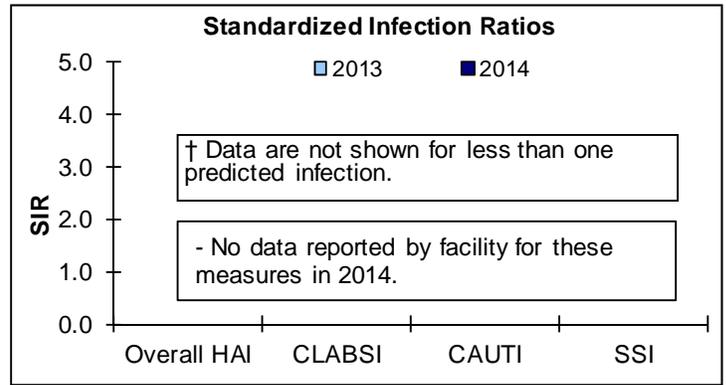
of Admissions: 315

of Beds: 16

of ICU Beds: 0

of Patient-days: 1,586

2014 HAI DATA REPORT



STANDARDIZED INFECTION RATIOS (SIR)

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall HAI	†	†	†	†	†
CLABSI	-	-	-	-	-
CAUTI	-	-	-	-	-
SSI	-	-	-	-	-
CABG					
COLO	-	-	-	-	-
HYST	-	-	-	-	-
KPRO	-	-	-	-	-

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES

Type of Unit	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	-	-	-	-	-

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES BY BIRTHWEIGHT IN NEONATAL INTENSIVE CARE UNITS

Birthweight Category	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
BW Category A					
BW Category B					
BW Category C					
BW Category D					
BW Category E					

CATHETER-ASSOCIATED URINARY TRACT INFECTION RATES

Type of Unit	Number of Infections	Number of Catheter Days	Rate per 1,000 Catheter Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	-	-	-	-	-

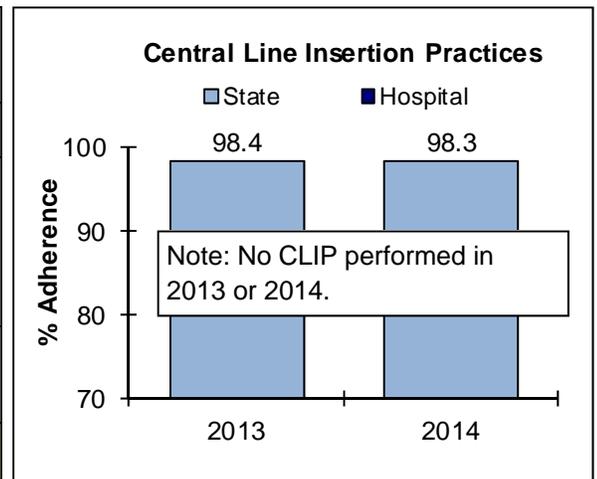
BW Category A: Equal or less than 750 grams BW Category B: Equal and between 751 and 1,000 grams BW Category C: Equal and between 1,001 and 1,500 grams BW Category D: Equal and between 1,501 and 2,500 grams BW Category E: More than 2,500 grams

HAI: Healthcare-associated infection CLABSI: Central line-associated bloodstream infection CAUTI: Catheter-associated urinary tract infection SSI: Surgical site infection COLO: Colon procedure HYST: Abdominal hysterectomy CABG: Coronary artery bypass graft KPRO: Knee arthroplasty

UPPER CONNECTICUT VALLEY 2014 DATA REPORT

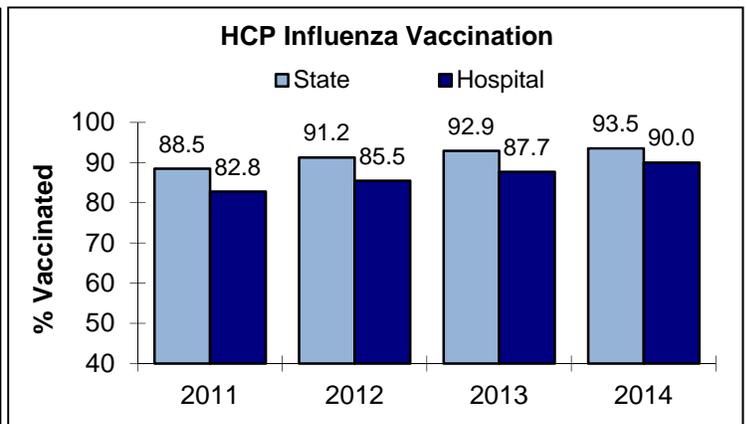
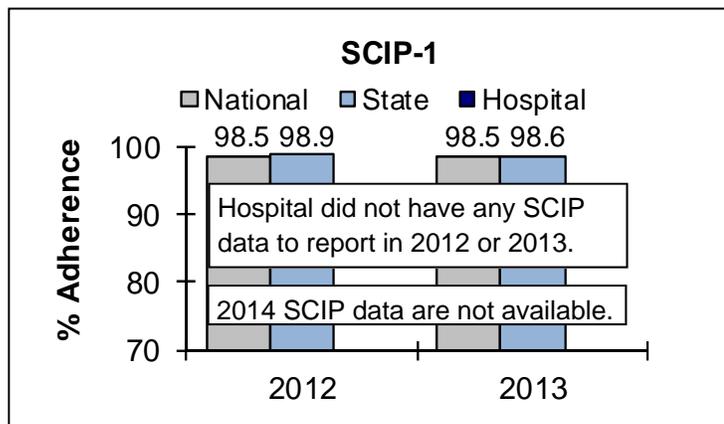
PROCESS MEASURES

Measure	Percent Adherence	State Coverage	Comparison to State Coverage
CLIP		98.3	
SCIP-1	Note: 2014 SCIP data were not available at time of publication and as a result are excluded from this report.		
SCIP-2			
SCIP-3			
Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	90.0	93.5	Similar



INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
NO			



SCIP: Surgical care improvement project

CLIP: Central line insertion practices

DATA NOTES:

- The 2014 central line-associated blood stream infections (CLABSI), surgical site infections (SSI) and catheter-associated urinary tract infections (CAUTI) data presented in this report have not been validated and must be interpreted with the understanding that in general there are both under- and over-reporting of infections.
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- As of July 1, 2015, SCIP 2014 data reported to CMS was unavailable and the HAI Program was unable to conduct further analysis of this measure as routinely included in this report.



VALLEY REGIONAL HOSPITAL

Claremont, NH

Not-for-profit

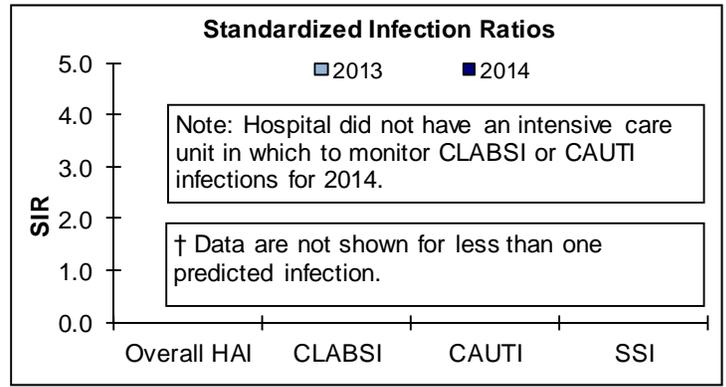
of Admissions: 692

of Beds: 25

of ICU Beds: 0

of Patient-days: 3,961

2014 HAI DATA REPORT



STANDARDIZED INFECTION RATIOS (SIR)

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall HAI	†	†	†	†	†
CLABSI	-	-	-	-	-
CAUTI	-	-	-	-	-
SSI	†	†	†	†	†
CABG					
COLO	†	†	†	†	†
HYST	†	†	†	†	†
KPRO	†	†	†	†	†

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES

Type of Unit	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
No ICU					

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES BY BIRTHWEIGHT IN NEONATAL INTENSIVE CARE UNITS

Birthweight Category	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
BW Category A					
BW Category B					
BW Category C					
BW Category D					
BW Category E					

CATHETER-ASSOCIATED URINARY TRACT INFECTION RATES

Type of Unit	Number of Infections	Number of Catheter Days	Rate per 1,000 Catheter Days	National Rate	Comparison to National Rate
No ICU					

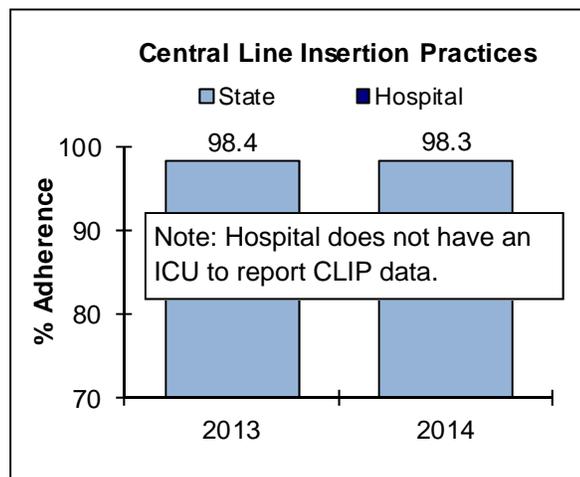
BW Category A: Equal or less than 750 grams BW Category B: Equal and between 751 and 1,000 grams BW Category C: Equal and between 1,001 and 1,500 grams BW Category D: Equal and between 1,501 and 2,500 grams BW Category E: More than 2,500 grams

HAI: Healthcare-associated infection CLABSI: Central line-associated bloodstream infection CAUTI: Catheter-associated urinary tract infection SSI: Surgical site infection COLO: Colon procedure HYST: Abdominal hysterectomy CABG: Coronary artery bypass graft KPRO: Knee arthroplasty

VALLEY REGIONAL HOSPITAL 2014 DATA REPORT

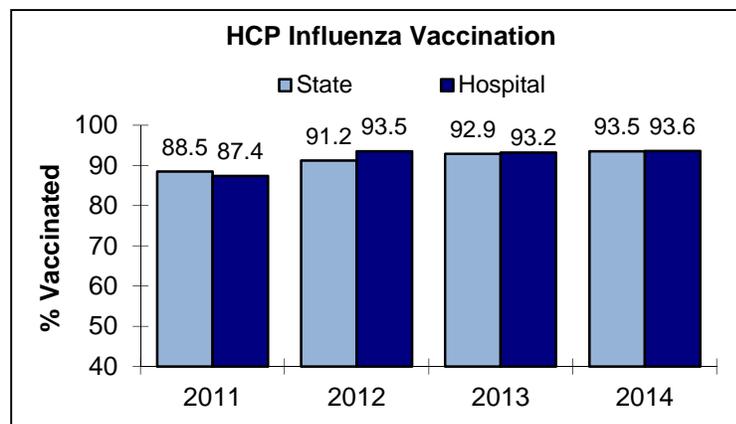
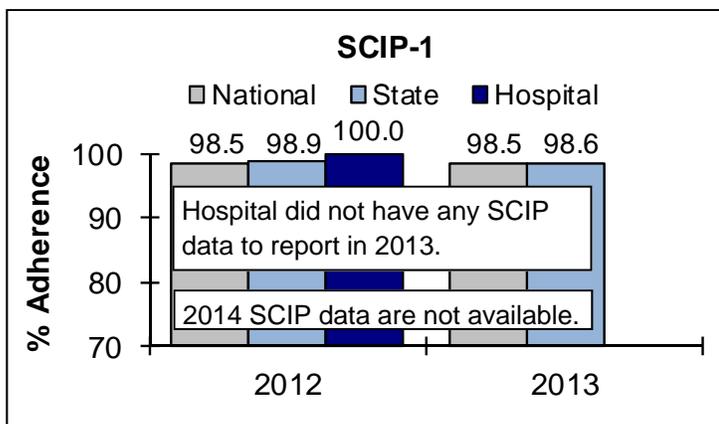
PROCESS MEASURES

Measure	Percent Adherence	State Coverage	Comparison to State Coverage
CLIP		98.3	
SCIP-1	Note: 2014 SCIP data were not available at time of publication and as a result are excluded from this report.		
SCIP-2			
SCIP-3			
Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	93.6	93.5	Similar



INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
YES	Medical, Religious, Personal/philosophical	Wear a mask	Wear a mask



SCIP: Surgical care improvement project

CLIP: Central line insertion practices

DATA NOTES:

- The 2014 central line-associated blood stream infections (CLABSI), surgical site infections (SSI) and catheter-associated urinary tract infections (CAUTI) data presented in this report have not been validated and must be interpreted with the understanding that in general there are both under- and over-reporting of infections.
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- As of July 1, 2015, SCIP 2014 data reported to CMS was unavailable and the HAI Program was unable to conduct further analysis of this measure as routinely included in this report.



WEEKS MEDICAL CENTER

Lancaster, NH

Not-for-profit

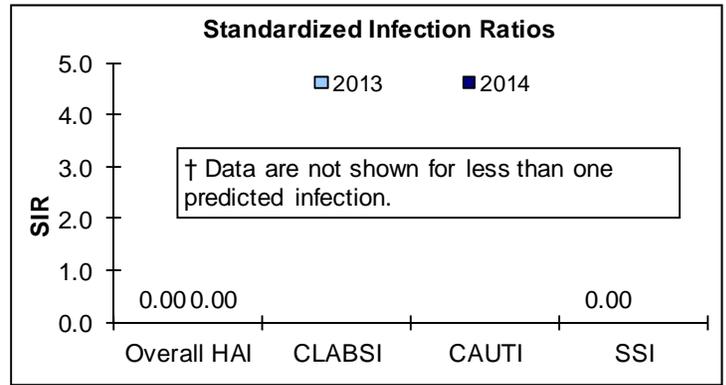
of Admissions: 821

of Beds: 25

of ICU Beds: 3

of Patient-days: 3,293

2014 HAI DATA REPORT



STANDARDIZED INFECTION RATIOS (SIR)

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall HAI	0	1.03	0.00	- , 3.57	Similar
CLABSI	†	†	†	†	†
CAUTI	†	†	†	†	†
SSI	†	†	†	†	†
CABG					
COLO	†	†	†	†	†
HYST	-	-	-	-	-
KPRO	†	†	†	†	†

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES

Type of Unit	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	†	†	†	†	†

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES BY BIRTHWEIGHT IN NEONATAL INTENSIVE CARE UNITS

Birthweight Category	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
BW Category A					
BW Category B					
BW Category C					
BW Category D					
BW Category E					

CATHETER-ASSOCIATED URINARY TRACT INFECTION RATES

Type of Unit	Number of Infections	Number of Catheter Days	Rate per 1,000 Catheter Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	0	55	0.0	0.7	Similar

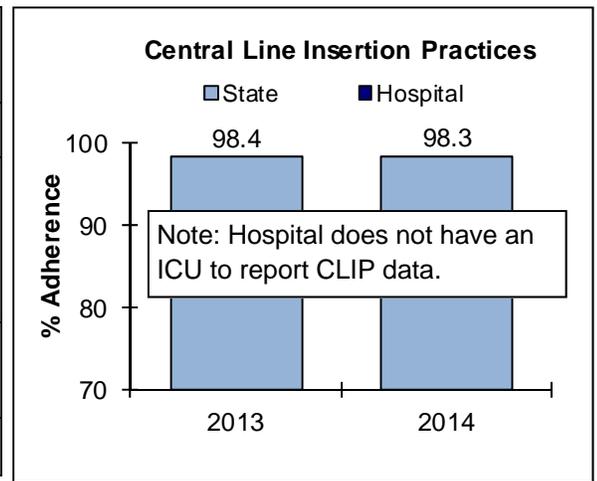
BW Category A: Equal or less than 750 grams BW Category B: Equal and between 751 and 1,000 grams BW Category C: Equal and between 1,001 and 1,500 grams BW Category D: Equal and between 1,501 and 2,500 grams BW Category E: More than 2,500 grams

HAI: Healthcare-associated infection CLABSI: Central line-associated bloodstream infection CAUTI: Catheter-associated urinary tract infection SSI: Surgical site infection COLO: Colon procedure HYST: Abdominal hysterectomy CABG: Coronary artery bypass graft KPRO: Knee arthroplasty

WEEKS MEDICAL CENTER 2014 DATA REPORT

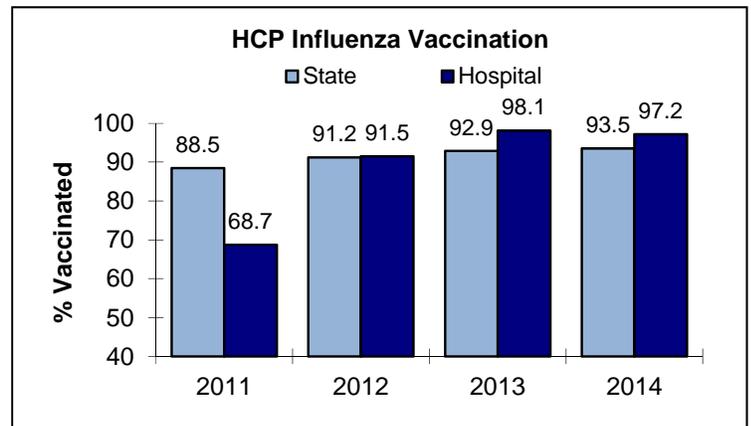
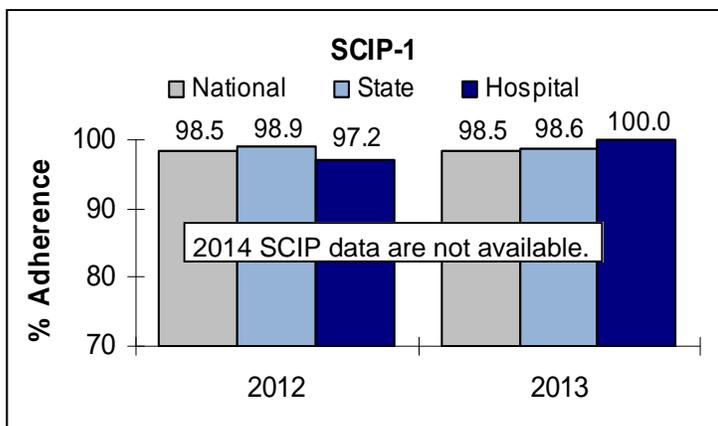
PROCESS MEASURES

Measure	Percent Adherence	State Coverage	Comparison to State Coverage
CLIP	†	98.3	†
SCIP-1	Note: 2014 SCIP data were not available at time of publication and as a result are excluded from this report.		
SCIP-2			
SCIP-3			
Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	97.2	93.5	Higher



INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
YES	Medical, Personal/philosophical	Wear a mask	Wear a mask



SCIP: Surgical care improvement project

CLIP: Central line insertion practices

DATA NOTES:

- The 2014 central line-associated blood stream infections (CLABSI), surgical site infections (SSI) and catheter-associated urinary tract infections (CAUTI) data presented in this report have not been validated and must be interpreted with the understanding that in general there are both under- and over-reporting of infections.
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WENTWORTH-DOUGLASS

Dover, NH

Not-for-profit

of Admissions: 7,150

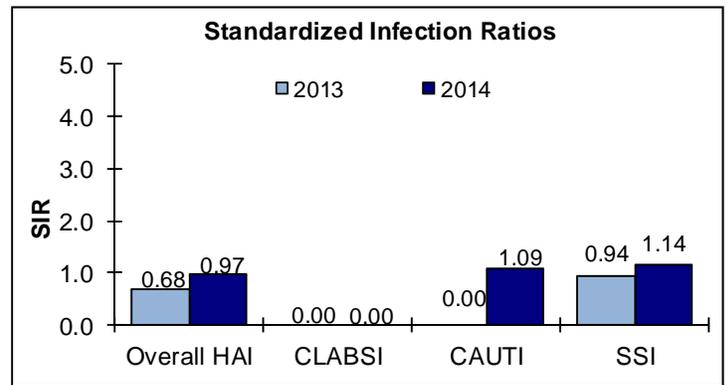
of Beds: 142

of ICU Beds: 11

of Patient-days: 33,494

2014 HAI DATA REPORT

STANDARDIZED INFECTION RATIOS (SIR)



Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall HAI	11	11.31	0.97	0.48 , 1.74	Similar
CLABSI	0	1.55	0.00	- , 1.94	Similar
CAUTI	2	1.84	1.09	0.18 , 3.60	Similar
SSI	9	7.93	1.14	0.55 , 2.08	Similar
CABG					
COLO	4	4.16	0.96	0.31 , 2.32	Similar
HYST	4	2.22	1.80	0.57 , 4.35	Similar
KPRO	1	1.56	0.64	0.03 , 3.17	Similar

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES

Type of Unit	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	0	1,030	0.0	0.8	Similar

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTION RATES BY BIRTHWEIGHT IN NEONATAL INTENSIVE CARE UNITS

Birthweight Category	Number of Infections	Number of Central Line Days	Rate per 1,000 Central Line Days	National Rate	Comparison to National Rate
BW Category A					
BW Category B					
BW Category C					
BW Category D					
BW Category E					

CATHETER-ASSOCIATED URINARY TRACT INFECTION RATES

Type of Unit	Number of Infections	Number of Catheter Days	Rate per 1,000 Catheter Days	National Rate	Comparison to National Rate
Medical/Surgical ICU	2	1,412	1.4	1.3	Similar

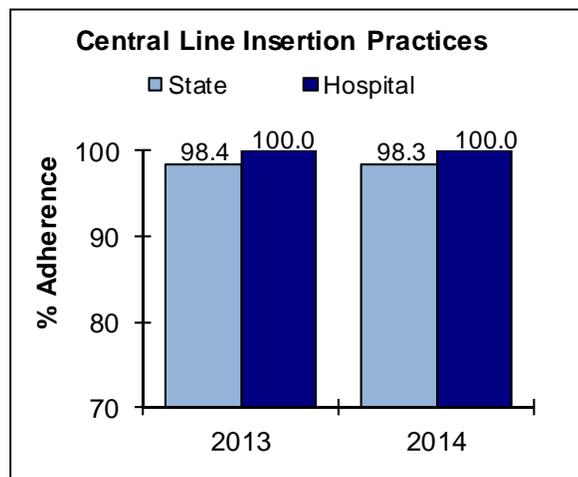
BW Category A: Equal or less than 750 grams BW Category B: Equal and between 751 and 1,000 grams BW Category C: Equal and between 1,001 and 1,500 grams BW Category D: Equal and between 1,501 and 2,500 grams BW Category E: More than 2,500 grams

HAI: Healthcare-associated infection CLABSI: Central line-associated bloodstream infection CAUTI: Catheter-associated urinary tract infection SSI: Surgical site infection COLO: Colon procedure HYST: Abdominal hysterectomy CABG: Coronary artery bypass graft KPRO: Knee arthroplasty

WENTWORTH-DOUGLASS 2014 DATA REPORT

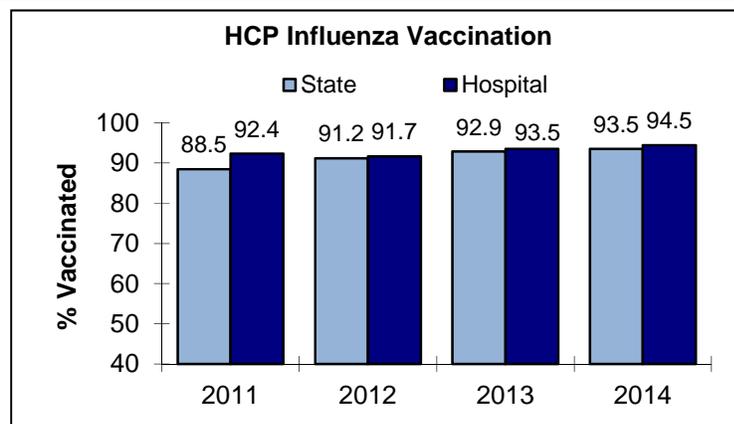
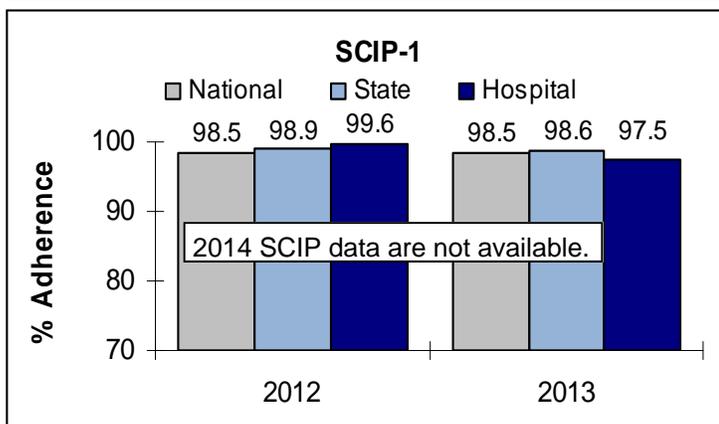
PROCESS MEASURES

Measure	Percent Adherence	State Coverage	Comparison to State Coverage
CLIP	100.0	98.3	Similar
SCIP-1	Note: 2014 SCIP data were not available at time of publication and as a result are excluded from this report.		
SCIP-2			
SCIP-3			
Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	94.5	93.5	Similar



INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
YES	Medical, Religious, Personal/philosophical	Wear a mask	Wear a mask



SCIP: Surgical care improvement project

CLIP: Central line insertion practices

DATA NOTES:

- The 2014 central line-associated blood stream infections (CLABSI), surgical site infections (SSI) and catheter-associated urinary tract infections (CAUTI) data presented in this report have not been validated and must be interpreted with the understanding that in general there are both under- and over-reporting of infections.
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- As of July 1, 2015, SCIP 2014 data reported to CMS was unavailable and the HAI Program was unable to conduct further analysis of this measure as routinely included in this report.



CROTCHED MOUNTAIN SPECIALTY HOSPITAL

Greenfield, NH

Not-for-profit

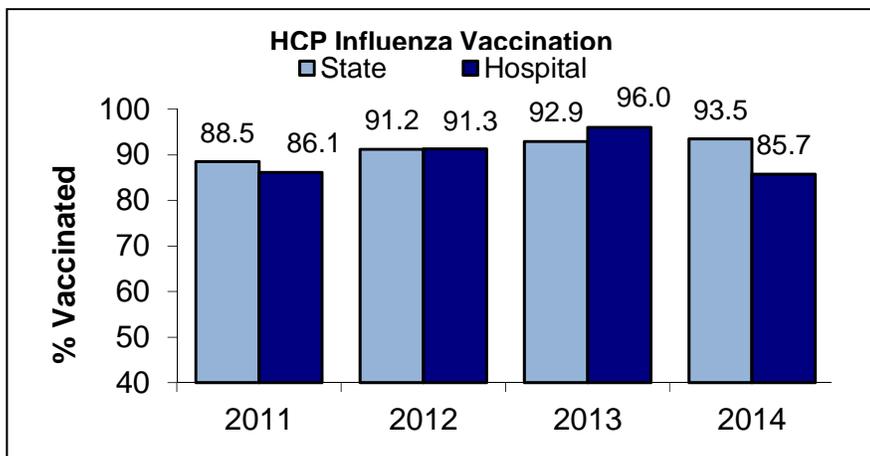
of Admissions: 78

of Beds: 62

2014 HAI DATA REPORT

PROCESS MEASURES

Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	85.7	93.5	Lower



INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy*	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
YES	Medical, Religious, Personal/philosophical	Wear a mask, Receive verbal and/or written education	Wear a mask, Receive verbal and/or written education

DATA NOTES:

- Specialty hospitals (rehabilitation and psychiatric hospitals) are not required to report CLABSI, CAUTI, or CLIP, because they do not have ICU, nor SSI and surgical antimicrobial prophylaxis administration data, because they do not perform surgeries.
- New Hampshire's five rehabilitation and two psychiatric hospitals are only required to report influenza vaccination rates for patients and staff.

HAI: Healthcare-associated infection CLABSI: Central line-associated bloodstream infection CAUTI: Catheter-associated urinary tract infection
 SSI: Surgical site infection COLO: Colon procedure HYST: Abdominal hysterectomy CABG: Coronary artery bypass graft KPRO: Knee arthroplasty
 SCIP: Surgical care improvement project CLIP: Central line insertion practices



HAMPSTEAD HOSPITAL

Hampstead, NH

Private

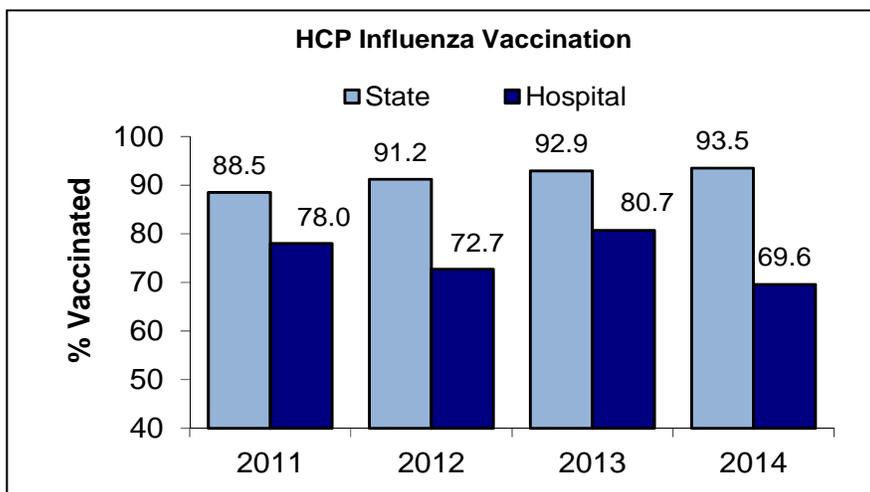
of Admissions: 1,692

of Beds: 81

2014 HAI DATA REPORT

PROCESS MEASURES

Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	69.6	93.5	Lower



INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy*	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
NO			

DATA NOTES:

- Specialty hospitals (rehabilitation and psychiatric hospitals) are not required to report CLABSI, CAUTI, or CLIP, because they do not have ICU, nor SSI and surgical antimicrobial prophylaxis administration data, because they do not perform surgeries.
- New Hampshire's five rehabilitation and two psychiatric hospitals are only required to report influenza vaccination rates for patients and staff.

HAI: Healthcare-associated infection CLABSI: Central line-associated bloodstream infection CAUTI: Catheter-associated urinary tract infection
 SSI: Surgical site infection COLO: Colon procedure HYST: Abdominal hysterectomy CABG: Coronary artery bypass graft KPRO: Knee arthroplasty
 SCIP: Surgical care improvement project CLIP: Central line insertion practices



HEALTHSOUTH REHABILITATION HOSPITAL

Concord, NH

Corporate

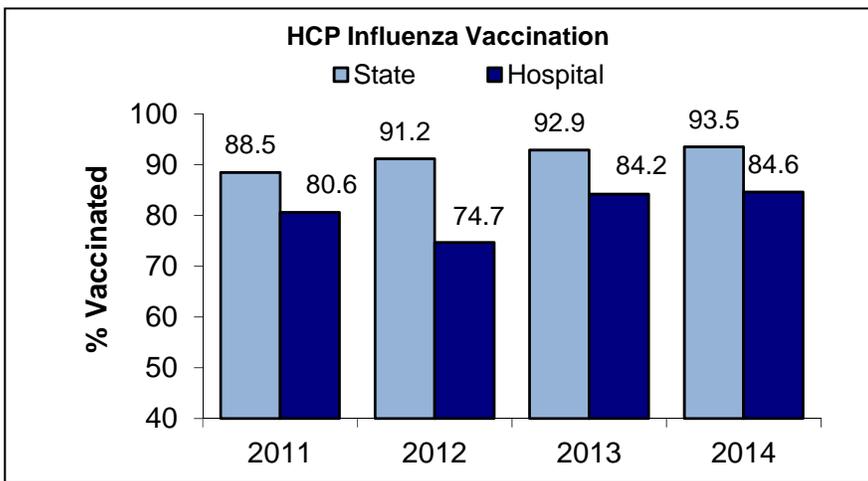
of Admissions: 940

of Beds: 50

2014 HAI DATA REPORT

PROCESS MEASURES

Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	84.6	93.5	Lower



INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy*	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
CONSIDERING			

DATA NOTES:

- Specialty hospitals (rehabilitation and psychiatric hospitals) are not required to report CLABSI, CAUTI, or CLIP, because they do not have ICU, nor SSI and surgical antimicrobial prophylaxis administration data, because they do not perform surgeries.
- New Hampshire's five rehabilitation and two psychiatric hospitals are only required to report influenza vaccination rates for patients and staff.

HAI: Healthcare-associated infection CLABSI: Central line-associated bloodstream infection CAUTI: Catheter-associated urinary tract infection
 SSI: Surgical site infection COLO: Colon procedure HYST: Abdominal hysterectomy CABG: Coronary artery bypass graft KPRO: Knee arthroplasty
 SCIP: Surgical care improvement project CLIP: Central line insertion practices



NEW HAMPSHIRE HOSPITAL

Concord, NH

State-operated

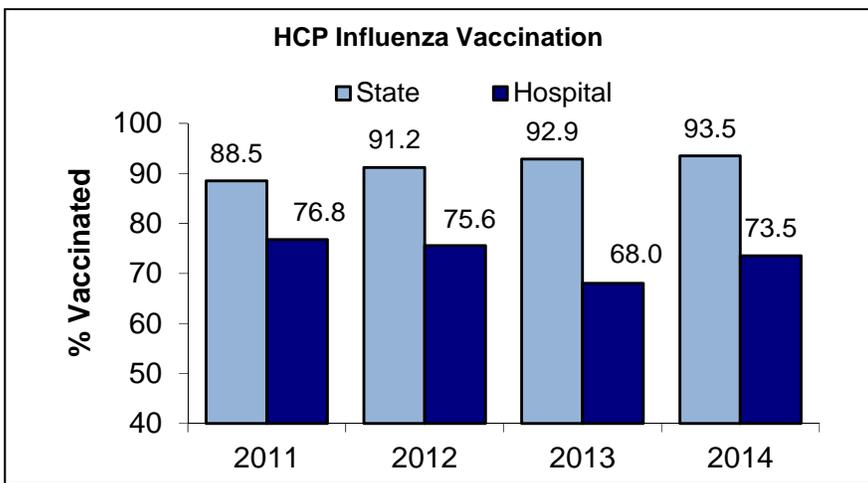
of Admissions: 2,072

of Beds: 158

2014 HAI DATA REPORT

PROCESS MEASURES

Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	73.5	93.5	Lower



INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy*	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
NO			

DATA NOTES:

- Specialty hospitals (rehabilitation and psychiatric hospitals) are not required to report CLABSI, CAUTI, or CLIP, because they do not have ICU, nor SSI and surgical antimicrobial prophylaxis administration data, because they do not perform surgeries.
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NORTHEAST REHABILITATION HOSPITAL, THE ELLIOT

Manchester, NH

Network

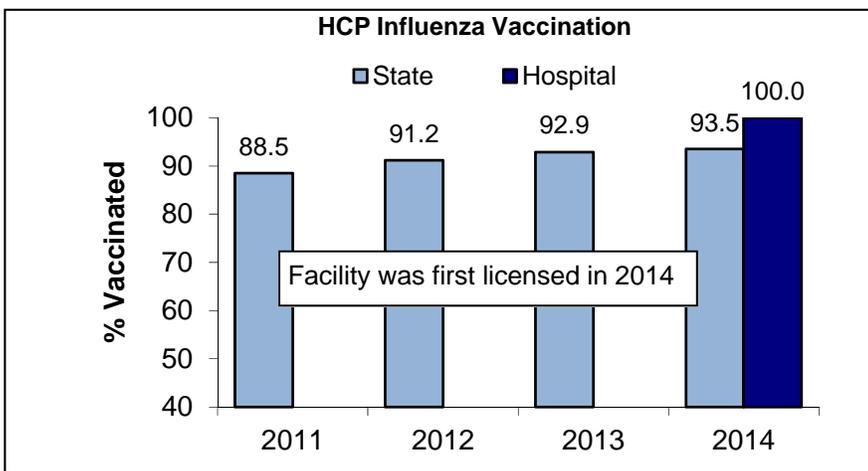
of Admissions: 0 (Facility opened in 2015)

of Beds: 0

2014 HAI DATA REPORT

PROCESS MEASURES

Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	100.0	93.5	Similar



INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy*	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
YES	Medical, Religious	Wear a mask	Progressive discipline, potentially including termination

DATA NOTES:

- Specialty hospitals (rehabilitation and psychiatric hospitals) are not required to report CLABSI, CAUTI, or CLIP, because they do not have ICUs nor SSI and surgical antimicrobial prophylaxis administration data, because they do not perform surgeries.
- New Hampshire's five rehabilitation and two psychiatric hospitals are only required to report influenza vaccination rates for patients and staff.

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 SSI: Surgical site infection COLO: Colon procedure HYST: Abdominal hysterectomy CABG: Coronary artery bypass graft KPRO: Knee arthroplasty
 SCIP: Surgical care improvement project CLIP: Central line insertion practices



NORTHEAST REHABILITATION HOSPITAL, PEASE

Portsmouth, NH

Network

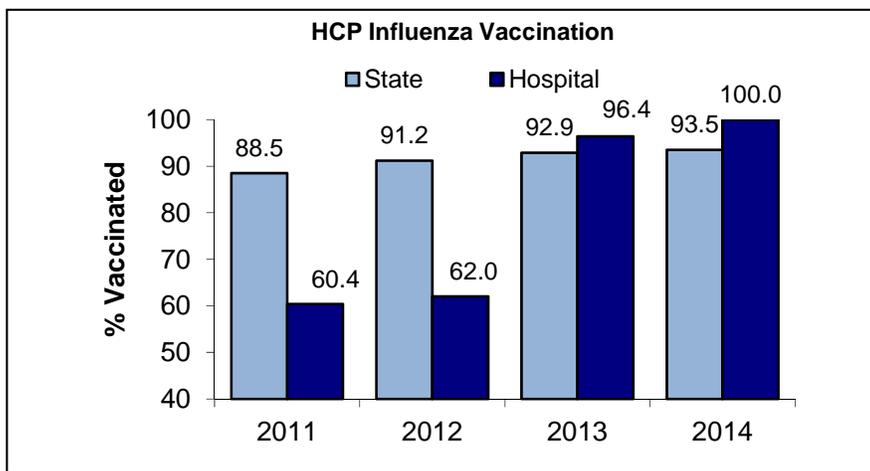
of Admissions: 1,072

of Beds: 33

2014 HAI DATA REPORT

PROCESS MEASURES

Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	100.0	93.5	Higher



INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy*	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
YES	Medical, Religious	Wear a mask	Progressive discipline, potentially including termination

DATA NOTES:

- Specialty hospitals (rehabilitation and psychiatric hospitals) are not required to report CLABSI, CAUTI, or CLIP, because they do not have ICU, nor SSI and surgical antimicrobial prophylaxis administration data, because they do not perform surgeries.
- New Hampshire's five rehabilitation and two psychiatric hospitals are only required to report influenza vaccination rates for patients and staff.

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 SCIP: Surgical care improvement project CLIP: Central line insertion practices



NORTHEAST REHABILITATION HOSPITAL, SALEM

Salem, NH

Network

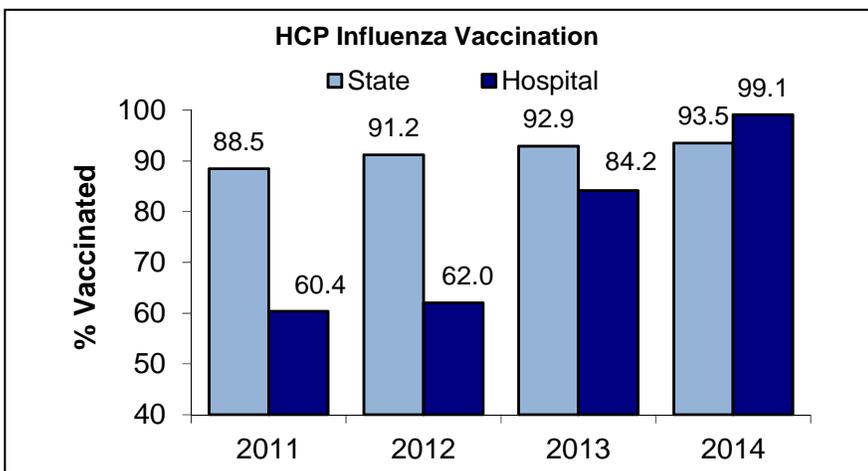
of Admissions: 1,538

of Beds: 82

2014 HAI DATA REPORT

PROCESS MEASURES

Measure	Percent Vaccinated	State Coverage	Comparison to State Coverage
HCP Influenza Vaccination	99.1	93.5	Higher



INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy*	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
YES	Medical, Religious	Wear a mask	Progressive discipline, potentially including termination

DATA NOTES:

- Specialty hospitals (rehabilitation and psychiatric hospitals) are not required to report CLABSI, CAUTI, or CLIP, because they do not have ICU, nor SSI and surgical antimicrobial prophylaxis administration data, because they do not perform surgeries.
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 SSI: Surgical site infection COLO: Colon procedure HYST: Abdominal hysterectomy CABG: Coronary artery bypass graft KPRO: Knee arthroplasty
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NORTHEAST REHABILITATION HOSPITAL, SNHMC

Nashua, NH

Network

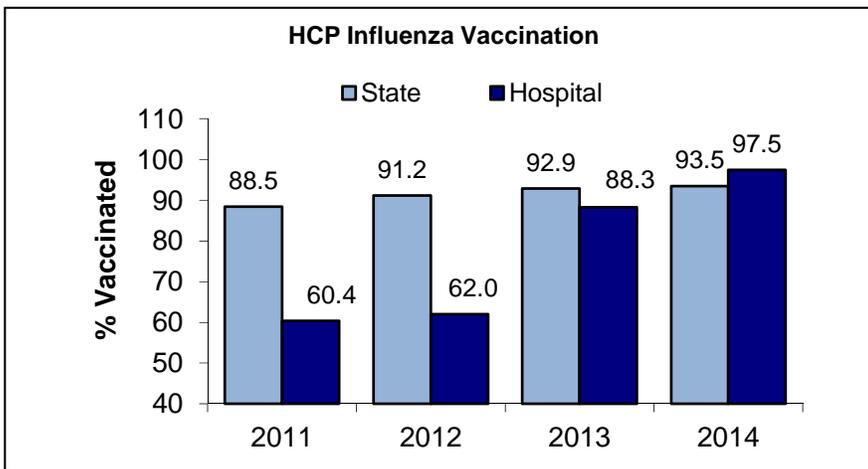
of Admissions: 526

of Beds: 20

2014 HAI DATA REPORT

PROCESS MEASURES

Measure	Percent Vaccinated	State Average	Comparison to State Average
HCP Influenza Vaccination	97.5	93.5	Similar



INFLUENZA VACCINATION POLICIES, 2014-2015 INFLUENZA SEASON

Policy	Exemptions Allowed in Policy*	Requirements for Unvaccinated HCP With Accepted Exemption	Consequences for Unvaccinated HCP Without Accepted Exemption
YES	Medical, Religious	Wear a mask	Progressive discipline, potentially including termination

DATA NOTES:

- Specialty hospitals (rehabilitation and psychiatric hospitals) are not required to report CLABSI, CAUTI, or CLIP, because they do not have ICU, nor SSI and surgical antimicrobial prophylaxis administration data, because they do not perform surgeries.
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APPENDIX 1: Technical Notes

1. The majority of data in this report were extracted from NHSN on 6/1/2015; additional influenza vaccination data were extracted from other data sources on the same date. Changes or new infections reported by hospitals after this date are not reflected in this report.
2. The SSI, CLABSI, and CAUTI national comparison data used in this report came from the 2009 NHSN and 2014 NHSN reports, respectively. The 2009 NHSN report summarizes data reported to NHSN from 2006-2008. The 2014 NHSN report summarizes device-associated data reported to NHSN January-December 2013. These reports are available at: <http://www.cdc.gov/nhsn/datastat/index.html>.
3. Rate data were appropriately risk-adjusted according to standard NHSN recommendations. Rates were only presented if appropriately risk-adjusted as follows:
 - a. CLABSI: rate data must be broken down and aggregated only by the same type of unit.
 - b. CAUTI: rate data must be broken down and aggregated only by the same type of unit
 - c. CLIP: currently there are no CDC recommendations for risk-adjusting CLIP data.
 - d. SSI: In accordance with CDC recommendations and changes to NHSN methodology beginning in 2010, rates are no longer presented.
4. Rates for any grouping were not presented if data were insufficient to generate a stable rate.
 - a. CLABSI: there must be at least 50 central line days in the denominator to present a rate.
 - b. CAUTI: there must be at least 50 catheter days in the denominator to present a rate.
 - c. CLIP: there must be at least 20 insertions in the denominator to present a rate.
 - d. SSI: in accordance with CDC recommendations and changes to NHSN methodology beginning in 2010, rates are no longer presented.
5. SIR for any grouping were not presented if less than one infection was predicted.
6. All confidence intervals presented in this report are 95% confidence intervals. A confidence interval is a measure of certainty (usually with 95% confidence) of an estimate (such as a percentage). Because we can never obtain a hospital's true "population" data (e.g., all patients for all time), we use statistical procedures to "estimate" various measurements using "sample" data. Since estimates have "variability" we use 95% confidence limits to describe the variability around the estimate. The confidence interval gives us the range within which the TRUE value will fall 95% of the time, assuming that the sample data are reflective of the true population. If the confidence intervals for the two rates overlap, then it is reasonably possible that the REAL rates are not different from one another.
7. Statistical significance is affected by sample size. If a value is almost or just barely significant, just a few additional observations can push significance one way or the other.

Standardized Infection Ratios

8. Calculating a SIR: The SIR is the number of observed infections divided by the number of predicted infections based on most recent national data. In order to calculate an SIR, it is recommended that there be at least one predicted infection. See Appendix 3 for more information on the SIR.
9. Interpreting a SIR: The resulting SIR is a comparison between the number of observed infections and the number predicted.
 - a. An SIR of 1.0 means that exactly the same number of infections was observed as was predicted.
 - b. An SIR of less than one means that fewer infections were observed than was predicted (for example, SIR = 0.70 would be interpreted as 30% fewer infections observed than predicted).
 - c. An SIR of more than one means that fewer infections were observed than were predicted (for example, SIR = 1.30 would be interpreted as 30% more infections observed than predicted).
10. Calculating a corresponding confidence interval for a SIR: All hospital-specific SIR and corresponding confidence intervals in this report were generated directly by NHSN using statistical methods similar to those described in Liddell FD. Simple exact analysis of the standardized mortality ratio. *Journal of Epidemiology and Community Health*, 1984; 38:85-88.^{xi}
11. Interpreting a SIR confidence interval: A confidence interval is a measure of certainty (usually with 95% confidence) of an estimate (such as a SIR). Confidence intervals can be used to assess whether differences in the number of observed and predicted infections is statistically significant (different or similar).
 - a. For confidence intervals that contain the value 1.0, the observed number of infections will be considered "Similar" to the predicted number of infections based on national data (e.g., 0.27–1.49).
 - b. For confidence intervals that are lower than and do not contain the value 1.0, the observed number of infections will be considered "Lower" than the predicted number of infections based on national data (e.g., 0.13–0.74).
 - c. For confidence intervals that are higher than and do not contain the value 1.0, the observed number of infections will be considered "Higher" than the predicted number of infections based on national data (e.g., 1.09–2.63).

Infection Rates

12. Calculating a CLABSI rate: CLABSI rates are presented as the number of infections per 1,000 central line days.
$$\text{CLABSI rate} = (\text{number of infections} / \text{number of central line days}) \times 1,000$$
13. Calculating a CAUTI rate: CAUTI rates are presented as the number of infections per 1,000 catheter days.

CAUTI rate = (number of infections / number of catheter days) x 1,000

14. Interpreting a p-value: All hospital-specific rates and corresponding p-values in this report were generated directly by NHSN using Poisson statistical methods. State-level rates and corresponding p-values were calculated by DHHS using exact methods. A p-value provides a statistical comparison of two values in order to determine whether those values are statistically different or similar. In this report, p-values are used to assess whether hospital infection rates are similar or different to national infection rates. A p-value of <0.05 would indicate the hospital rate is significantly different than the national rate.
- If the p-value is ≥ 0.05 , then the hospital rate would be considered statistically “Similar” to the national rate.
 - If the hospital rate is lower than the national rate and the p-value is <0.05, then the hospital rate would be considered significantly “Lower” than the national rate.
 - If the hospital rate is higher than the national rate and the p-value is <0.05, then the hospital rate would be considered significantly “Higher” than the national rate.

Process Measure Percentages

15. Calculating a CLIP adherence percentage: CLIP adherence percentages are presented as the number of insertions that met the adherence criteria divided by the total number of insertions expressed as a percent.

CLIP adherence (%) = (number of insertions that met adherence criteria / total number of insertions) x 100

16. Calculating an influenza vaccination percentage: Influenza vaccination percentages are presented as the number of HCP vaccinated divided by the total number of HCP expressed as a percent.

Influenza vaccination (%) = (number of HCP vaccinated / total number of HCP) x 100

17. Calculating a surgical antimicrobial prophylaxis adherence percentage: Surgical antimicrobial prophylaxis adherence percentages are presented as the number of orders for which administration adhered to the measure (SCIP-1, SCIP-2, or SCIP-3) divided by the total number of orders expressed as a percent.

Surgical antimicrobial prophylaxis adherence (%) = (number of orders administered on time / total number of orders) x 100

18. Calculating a corresponding confidence interval for a CLIP adherence percentage: Confidence intervals calculated for CLIP data presented in this report are mid-p exact 95% confidence intervals, which were calculated using a statistical software program.

19. Calculating a corresponding confidence interval for an influenza vaccination percentage: Confidence intervals calculated for influenza vaccination data presented in this report are mid-p exact 95% confidence intervals, which were calculated using a statistical software program. In prior reports, confidence intervals for influenza vaccination data were Wald normal

approximation 95% confidence intervals, however the method of calculating these confidence intervals were changed due to the addition of several hospitals with small numbers of HCP.

20. Calculating a corresponding confidence interval for a surgical antimicrobial prophylaxis adherence percentage: Confidence intervals calculated for SCIP data presented in this report are Wald normal approximation 95% confidence intervals for national and State data, and mid-p exact 95% confidence intervals for hospital data, which were calculated using a statistical software program.

21. Interpreting a proportion confidence interval for central line insertion and vaccination data: A confidence interval is a measure of certainty (usually with 95% confidence) of an estimate (such as a percentage). Confidence intervals can be used to assess whether differences in the percentages observed for each group (for example, hospital versus State) is statistically significant.
 - a. Confidence intervals that overlap the State confidence interval are considered "Similar" to the overall State percentage.
 - b. Confidence intervals that are lower than and do not overlap the State confidence interval are considered "Lower" than the overall State percentage.
 - c. Confidence intervals that are higher than and do not overlap the State confidence interval are considered "Higher" than the overall State percentage.

APPENDIX 2: Influenza Vaccination Survey Questions, 2014-2015 Season

1. Background information (facility and survey respondent)
2. How many patients were admitted to your hospital between October 1, 2014 and March 31, 2015? Include all patients that were admitted to your facility during this period, even if they were admitted or moved during the influenza season.
 - 2a. Total number of patient admissions
 - 2b. Total number of patient admissions excluding readmissions
3. How many of the patients admitted to your facility between October 1, 2014 and March 31, 2015 received a seasonal influenza vaccination (at your facility or elsewhere) for the 2014-15 season? Influenza vaccine for a given influenza season may be available as early as July or August. Include all immunized patients that received the 2014-15 vaccine product, even if administered prior to October 1, 2014.
 - 3a. Total number of patients immunized against influenza for the 2014-15 season
 - 3b. Total number of patients not immunized against influenza for the 2014-15 season
4. How many of the patients admitted to your facility between October 1, 2014 and March 31, 2015 had ever received a pneumococcal disease vaccination (at your facility or elsewhere)?
5. How many HCP worked or volunteered in your facility for at least one working day between October 1, 2014 and March 31, 2015?
6. How many HCP received a seasonal influenza vaccination (at your facility or elsewhere) for the 2014-15 season? Influenza vaccine for a given influenza season may be available as early as July or August. Include all immunized HCP that received the 2014-15 vaccine product, even if administered prior to October 1, 2014.
 - 6a. Total number of HCP immunized against influenza for the 2014-15 season
 - 6b. Total number of HCP not immunized against influenza for the 2014-15 season
7. Of the HCP not immunized against influenza for the 2014-15 influenza season, how many HCP did not receive the seasonal influenza vaccine for each of the following reasons: medical contraindication, religious, other (e.g., personal/philosophical), unknown?
8. Does your facility have a seasonal influenza vaccination policy? Such a policy means that the facility requires all or some portion of HCPs working at that facility to receive a seasonal influenza vaccine. If NO, skip to item 13.
 - 8a. Yes, there is a policy currently in place
 - 8b. No, but we are considering a policy
 - 8c. No, and we are not considering a policy
 - 8d. Other
9. If your facility has a seasonal influenza vaccination policy, what reasons for exemption are acceptable (medical, religious, personal/philosophical, other)? Check all that apply.

10. If your facility has a seasonal influenza vaccination policy, what do you require of unvaccinated HCP with an acceptable reason for exemption (wear a mask, receive verbal and/or written education, other)? Check all that apply.
11. If your facility has a seasonal influenza vaccination policy, what are the potential consequences for unvaccinated HCP without an acceptable reason for exemption (wear a mask, progressive discipline potentially including termination, receive verbal and/or written education, other)? Check all that apply.
12. If your facility has a seasonal influenza vaccination policy, how many people were terminated, suspended, resigned, or dismissed as a result of noncompliance with the policy during the 2014-15 influenza season (terminated, temporarily suspended, resigned, dismissed permanently)?
13. Does your facility offer the high-dose influenza vaccine?
14. Please enter any comments you would like to share.

APPENDIX 3: Understanding the Relationship between Healthcare-Associated Infection Rates and Standardized Infection Ratio Comparison Metrics

HAI Elimination Metrics are very useful for performing evaluations.^{xii} Several metrics are based on the science employed in NHSN. While national aggregate CLABSI data are published in the annual NHSN reports, these rates must be stratified by types of locations to be risk-adjusted. This scientifically sound risk-adjustment strategy creates a practical challenge to summarizing this information nationally, regionally, or even for an individual healthcare facility. For instance, when comparing CLABSI rates, there may be quite a number of different types of locations for which a CLABSI rate could be reported. This raises the need for a way to combine CLABSI rate data across locations.

A SIR can be used as an indirect standardization method for summarizing HAI experience across any number of stratified groups of data. To illustrate the method for using an SIR as an HAI comparison metric, the following example data are displayed below:

Risk Group Stratifier	Observed CLABSI Rates			NHSN CLABSI Rates for 2013 (Standard Population)		
Location Type	#CLABSI	#Central line-days	CLABSI rate*	#CLABSI	#Central line-days	CLABSI rate*
ICU	170	100,000	1.7	1200	600,000	2.0
WARD	58	58,000	1.0	600	400,000	1.5
$\text{SIR} = \frac{\text{observed}}{\text{expected}} = \frac{170 + 58}{100000 \times \left(\frac{2}{1000}\right) + 58,000 \times \left(\frac{1.5}{1000}\right)} = \frac{228}{200 + 87} = \frac{228}{287} = 0.79 \quad 95\% \text{ CI} = (0.628, 0.989)$						

* Defined as the number of CLABSI per 1000 central line days

In the table above, there are two strata to illustrate risk-adjustment by location type for which national data exist from NHSN. The SIR calculation is based on dividing the total number of observed CLABSI events by a “predicted” number using the CLABSI rates from the standard population. This “predicted” number is calculated by multiplying the national CLABSI rate from the standard population by the observed number of central line days for each stratum, which can also be understood as a prediction or projection. If the observed data represented a follow-up period, such as 2014, one would state that an SIR of 0.79 indicates that there was a 21% reduction in CLABSI overall for the nation, region, or facility.

The SIR concept and calculation is completely based on the underlying CLABSI rate data that exist across a potentially large group of strata. Thus, the SIR provides a single metric for performing comparisons rather than attempting to perform multiple comparisons across many strata which makes the task cumbersome.

The SIR concept and calculation can be applied equitably to other HAI metrics. This is especially true for HAI metrics for which national data are available and reasonably precise using a measurement system such as the NHSN. The SIR calculation methods differ in the risk group stratification only.

The SSI SIR uses improved risk adjustment calculated through logistic modeling. This allows for all available risk factors to be procedure specific. See the following logistic equation and SSI predictive risk factors that are used for calculating SSI SIR, respectively.

logit (p) = $\alpha + \beta_1 X_1 + \beta_2 X_2 + \beta_3 X_3 + \beta_4 X_4 = -5.448 + 0.520 (\text{Age} \leq 44^*) + 0.425 (\text{ASA } 3/4/5^*) + 0.501 (\text{Duration} >100^*) + 1.069 (\text{Med school affiliation}^*)$ *For these risk factors, if present = 1; if not = 0

Procedure Code	SSI Predictive Risk Factors From SSI Logistic Models
CABG	Age, ASA, Duration, Gender, Hospital Bed Size
COLO	Age, Anesthesia, ASA, Duration, Endoscope, Medical School Affiliation, Hospital Bed Size, Wound Class
HYST	Age, Anesthesia, ASA, Duration, Endoscope, Hospital Bed Size
KPRO	Age, Anesthesia, ASA, Duration, Gender, Revision, Hospital Bed Size, Trauma

Detailed descriptions of the SIR in NHSN are available at: http://www.cdc.gov/nhsn/PDFs/Newsletters/NHSN_NL_OCT_2010SE_final.pdf.

There are clear advantages to reporting and comparing a single number for prevention assessment. In addition to the simplicity of the SIR concept and the advantages listed above, it is important to note another benefit of using an SIR comparison metric for HAI data. If there was need at any level of aggregation (national, regional, facility-wide, etc.) to combine the SIR values across mutually exclusive data one could do so. The below table demonstrates how the example data from the previous two metric settings could be summarized.

HAI Metric	Observed HAI			Predicted HAI		
	#CLABSI	#SSI [†]	#Combined HAI	#CLABSI	#SSI [†]	#Combined HAI
CLABSI 1	228			287		
SSI 1		636			853.8	
Combined HAI			228 + 636 = 864			287 + 853.8 = 1140.8
$\text{SIR} = \frac{\text{observed}}{\text{expected}} = \frac{228 + 636}{287 + 853.8} = \frac{864}{1140.8} = 0.76 \quad 95\% \text{ CI} = (0.673, 0.849)$						

APPENDIX 4: Preventing Healthcare-Associated Infections

What You Can Do to Prevent Healthcare-Associated Infections

There are several prevention tips you can follow all the time to reduce your chance of getting an infection or spreading your infection to others.

1. Clean your hands.

- Use soap and warm water. Rub your hands for at least 15 seconds. Rub your palms, fingernails, in between your fingers, and the backs of your hands.
- If your hands do not look dirty, you can clean them with alcohol-based hand rub. Rub the gel all over your hands, especially under your nails and between your fingers, until your hands are dry.
- Clean your hands before touching or eating food. Clean them after you use the bathroom, take out the trash, change a diaper, visit someone who is ill, or play with a pet.

2. Make sure healthcare providers clean their hands first, even if they wear gloves, before touching you or performing a procedure.

- Doctors, nurses, dentists, and other healthcare providers come into contact with many bacteria and viruses. If you do not see your healthcare provider wash their hands or use an alcohol-based hand rub before they treat you, ask them if they have cleaned their hands.
- Healthcare providers should wear clean gloves when they perform tasks such as taking throat cultures, pulling teeth, taking blood, touching wounds or body fluids, while suctioning tubes, and examining your mouth or genitalia. Don't be afraid to ask if they should wear gloves.

3. Cover your mouth and nose.

- Many diseases are spread through sneezes and coughs. When you sneeze or cough, the germs can travel three feet or more. Cover your mouth and nose to prevent the spread of infection to others.
- Use a tissue. Keep tissues handy at home, at work, and in your pocket. Be sure to throw away used tissues and clean your hands after coughing or sneezing.
- If you don't have a tissue, cover your mouth and nose with the bend of your elbow or hands. If you use your hands, clean them right away.

4. If you are sick, avoid close contact with others.

- If you are sick, stay away from other people or stay home. Don't shake hands or touch others.
- When you go for medical treatment, call ahead and ask if there is anything you can do to avoid infecting people in the waiting room.

5. Get shots to avoid disease and fight the spread of infection.

- Make sure that your vaccinations are current—even for adults. Check with your doctor about shots you may need.

6. If you are prescribed an antibiotic for an illness, take them exactly as directed by your doctor.

- Don't take half-doses or stop before you complete your prescribed course even if you feel better. Not taking them as directed can lead to infections that become resistant to antibiotics, making them more difficult to treat.

What You Can Do to Help Prevent a Catheter-Associated Bloodstream Infection

- Ask your doctors and nurses to explain why you need the catheter and how long you will have it.
- Ask your doctors and nurses what infection prevention methods they will use during the catheter insertion.
- Make sure that all doctors and nurses caring for you clean their hands with soap and water or an alcohol-based hand rub before and after caring for you. If you do not see your providers clean their hands, please ask them to do so.
- If the bandage comes off or becomes wet or dirty, tell your nurse or doctor immediately.
- Inform your nurse or doctor if the area around your catheter is sore or red.
- Do not let family and friends who visit touch the catheter or the tubing.
- Make sure family and friends clean their hands with soap and water or an alcohol-based hand rub before and after visiting you.
- Some patients are sent home from the hospital with a catheter in order to continue their treatment. If you go home with a catheter, your doctors and nurses will explain everything you need to know about taking care of your catheter.
 - Make sure you understand how to care for the catheter before leaving the hospital. For example, ask for instructions on showering or bathing with the catheter and how to change the catheter dressing.
 - Make sure you know who to contact if you have questions after you get home.
 - Make sure you wash your hands with soap and water or an alcohol-based hand rub before handling your catheter.
 - Watch for the signs and symptoms of catheter-associated bloodstream infection, such as soreness or redness at the catheter site or fever, and call your healthcare provider immediately if any occur.

What Hospitals Do to Prevent Catheter-Associated Bloodstream Infections

To prevent catheter-associated bloodstream infections, doctors and nurses will:

- Choose a vein where the catheter can be safely inserted and where risk for infection is small.
- Clean hands with soap and water or alcohol-based hand rub before putting in the catheter.
- Wear a mask, cap, sterile gown, and sterile gloves when putting in the catheter to keep it sterile. The patient will be covered with a sterile sheet.
- Clean the patient's skin with an antiseptic cleanser before putting in the catheter.

- Clean hands, wear gloves, and clean the catheter opening with an antiseptic solution before using the catheter to draw blood or give medications. Healthcare providers also clean their hands and wear gloves when changing the bandage that covers the area where the catheter enters the skin.
- Decide every day if the patient still needs to have the catheter. The catheter will be removed as soon as it is no longer needed.

What You Can Do to Help Prevent Catheter-Associated Urinary Tract Infections

- Ask doctors to explain why you need the catheter and how long you will have it.
- Make sure that your doctors and nurses caring for you clean their hands and use sterile gloves for catheter insertion.
- Make sure the tubing or bag is not on the floor. If it drops or is on the floor, ask for new tubing or a bag.
- Ask doctors and nurses what infection prevention methods they will use during the catheter insertion.
- Ask your doctors and nurses if you still need the catheter each day.
- Always clean your hands before and after doing catheter care.
- Always keep your urine bag below the level of your bladder.
- Do not tug or pull on the tubing.

What Hospitals Do to Prevent Catheter-Associated Urinary Tract Infections

To prevent catheter-associated urinary tract infections, doctors and nurses will:

- Put in catheters only when necessary and are removed as soon as possible.
- Clean hands with soap and water or alcohol-based hand rub and put on sterile gloves before putting in the catheter.
- Clean the skin where the catheter will be inserted.
- Clean their hands before and after touching your catheter. If you do not see your providers clean their hands, please ask them to do so.
- Avoid disconnecting the catheter and drain tube.
- The catheter is secured to the leg to prevent pulling on the catheter.
- Avoid twisting or kinking the catheter.
- Keep the bag lower than the bladder.
- Empty the bag regularly.

What You Can Do to Help Prevent Surgical Site Infections

- Tell your doctor about other medical problems you may have. Health problems such as allergies, diabetes, and obesity could affect your surgery and your treatment.

- Quit smoking. Patients who smoke get more infections. Talk to your doctor about how you can quit before your surgery.
- Do not shave near where you will have surgery. Shaving with a razor can irritate your skin and make it easier to develop an infection.
- You may have some of your hair removed immediately before your surgery using electric clippers if the hair is in the same area where the procedure will occur, however you should not be shaved with a razor. Speak up if someone tries to shave you with a razor before surgery. Ask why you need to be shaved and talk with your surgeon if you have any concerns.
- Ask if you will get antibiotics before surgery.
- After your surgery, make sure that your healthcare providers clean their hands before examining you, either with soap and water or an alcohol-based hand rub. If you do not see your providers clean their hands, please ask them to do so.
- Family and friends who visit you should not touch the surgical wound or dressings and prevent pets from coming into contact with your wound.
- Family and friends should clean their hands with soap and water or an alcohol-based hand rub before and after visiting you. If you do not see them clean their hands, ask them to do so.
- Before you go home, your doctor or nurse should explain everything you need to know about taking care of your wound. Make sure you understand how to care for your wound before you leave the hospital. If you do develop an infection at the hospital, be sure to ask what type of infection you have, whether you need antibiotics for it, what steps you should take to prevent it from spreading, and make plans for follow up care for the infection.
- Always clean your hands before and after caring for your wound.
- Before you go home, make sure you know who to contact if you have questions or problems after you get home.
- If you have any symptoms of an infection, such as redness and pain at the surgery site, drainage, or fever, call your doctor immediately.

What Hospitals Do to Prevent Surgical Site Infections

To prevent surgical site infections, doctors, nurses, and other healthcare providers:

- Clean their hands and arms up to their elbows with an antiseptic agent before the surgery.
- Clean their hands with soap and water or an alcohol-based hand rub before and after caring for each patient.
- May remove some of your hair immediately before your surgery using electric clippers if the hair is in the same area where the procedure will occur. They should not shave you with a razor.
- Wear special hair covers, masks, gowns, and gloves during surgery to keep the surgery area clean.

- Give you antibiotics before your surgery starts. In most cases, you should get antibiotics within 60 minutes before the surgery starts and the antibiotics should be stopped within 24 hours after surgery.
- Clean the skin at the site of your surgery with a special soap that kills germs.

This information was adapted from materials developed by the Centers for Disease Control and Prevention (CDC), the Association for Professionals in Infection Control and Epidemiology (APIC), the Joint Commission, and Society of Healthcare Epidemiology of America (SHEA).

Other useful resources

Access the New Hampshire Healthcare-Associated Infections (HAI) Program website for public reports, guidelines, and other materials at: <http://www.dhhs.nh.gov/dphs/cdcs/hai/index.htm>.

For more information about HAI nationally and patient safety, visit the Centers for Disease Control and Prevention (CDC) website at: <http://www.cdc.gov/HAI/> and <http://www.cdc.gov/HAI/patientSafety/patient-safety.html>.

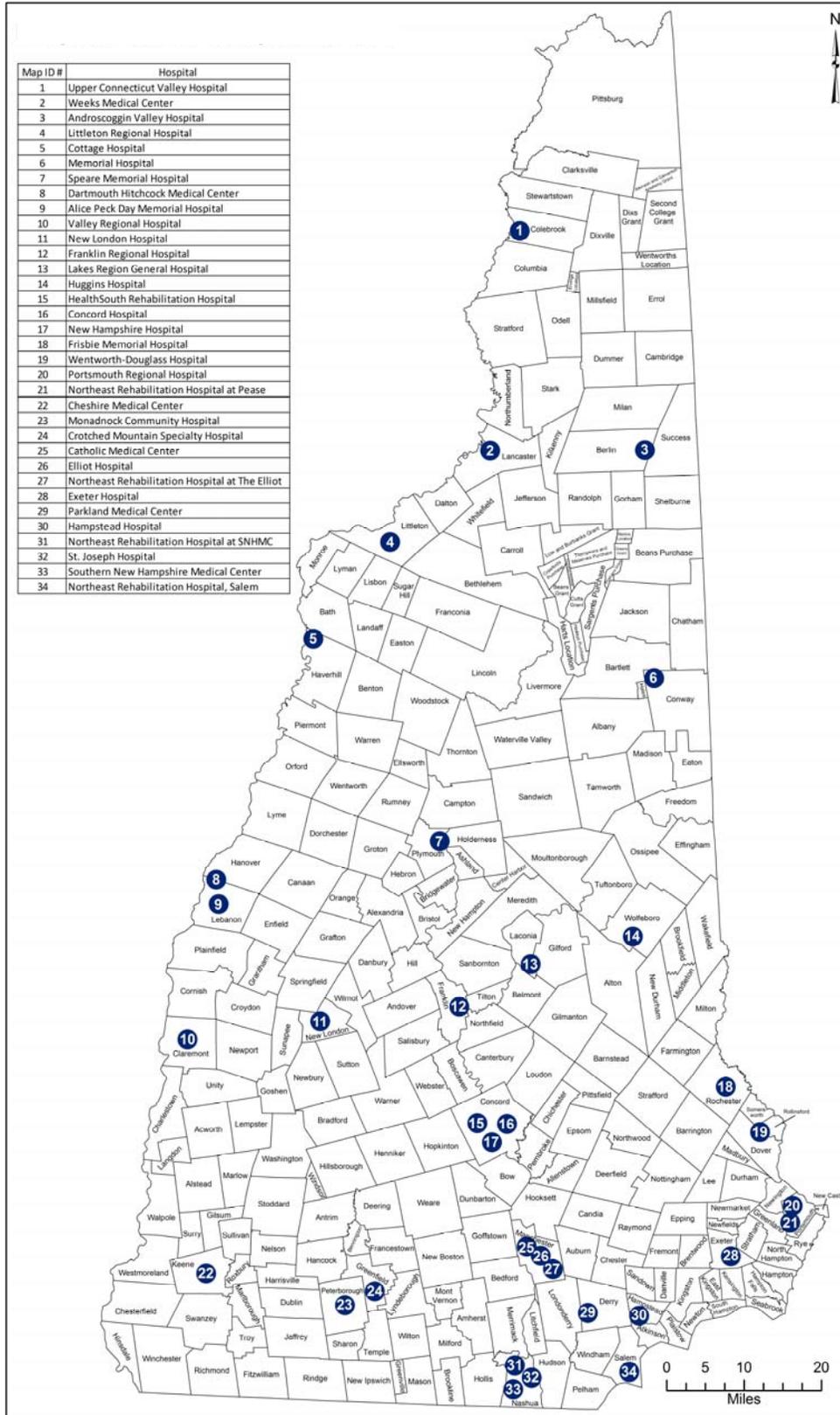
The Agency for Healthcare Quality and Research (AHRQ) has information for patients including care planning, diagnosis and treatment, and patient engagement. Visit their website at: <http://www.ahrq.gov/patients-consumers/index.html>.

The Society for Healthcare Epidemiology of America (SHEA) has several patient resources and guides. Visit their website at: <http://www.shea-online.org/Patients.aspx>.

The Association of Professionals in Infection Control and Epidemiology (APIC) have infographics, eCards, and a quiz about HAI. Visit their website to learn more: <http://consumers.site.apic.org/>.

To learn more about accreditation, certification and standards, visit the Joint Commission Website at: <http://www.jointcommission.org/>.

APPENDIX 5: Map of New Hampshire Hospitals, 2014



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Note: referenced according to citation order of appearance within the report.