

**STATE OF NEW HAMPSHIRE  
HEALTHCARE-ASSOCIATED INFECTIONS  
2015 AMBULATORY SURGERY CENTER REPORT**

September 12, 2016

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

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Note: In order to increase readability of tables and figures, ambulatory surgery center names have been provided in an abbreviated format. In all tables and figures, DH refers to Dartmouth-Hitchcock, PCC refers to Paincare Centers, and ASC refers to ambulatory surgery center.

**ABBREVIATIONS USED IN THIS DOCUMENT**

APIC	Association for Professionals in Infection Control and Epidemiology
ASA Score	American Society of Anesthesiologists (ASA) Classification of Physical Status, a scale used by an anesthesiologist to classify the patient's physical condition prior to surgery
ASC	Ambulatory surgery center(s)
BRST	NHSN operative code for breast procedure(s)
BSI	Bloodstream infection(s)
CCN	CMS Certification Number
CDC	U.S. Centers for Disease Control and Prevention
CMS	Centers for Medicare and Medicaid Services
DH	Dartmouth-Hitchcock
DHHS	New Hampshire Department of Health and Human Services
FX	NHSN operative code for open reduction of fracture procedure(s)
HAI	Healthcare-associated infection(s)
HCP	Healthcare personnel
HER	NHSN operative code for hernia procedure(s)
HICPAC	Healthcare Infection Control Practices Advisory Committee
HHS	U.S. Department of Health and Human Services
IV	Intravenous
NH	New Hampshire
NHHCQAC	New Hampshire Health Care Quality Assurance Commission
NHSN	National Healthcare Safety Network
NQF	National Quality Forum
PCC	Paincare Centers
RSA	Revised Statutes Annotated
SIR	Standardized infection ratio(s)
SSI	Surgical site infection(s)
TAW	Healthcare-Associated Infections Technical Advisory Workgroup

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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.<sup>i</sup> During the 2011 legislative season, the New Hampshire (NH) Legislature passed a bill amending NH Revised Statutes Annotated (RSA) 151:32-35, requiring ambulatory surgery centers (ASC) to identify, track, and report selected HAI to the NH Department of Health and Human Services (DHHS). All licensed ASC began reporting data to DHHS on one infection and two process measures in July 2011. This report represents the fourth summary of HAI-related data reported by ASC in NH.

### **Healthcare-Associated Infections in New Hampshire Ambulatory Surgery Centers**

There was a similar number of infections in NH as predicted based on national data. The 15 ASC that were licensed for the full 2015 calendar year reported four surgical site infections (SSI), which was 53% fewer than predicted based on national data. All two ASC which had sufficiently robust data to present ASC-specific standardized infection ratios (SIR) for SSI reported SIR similar to predicted based on national data. All 11 ASC with sufficiently robust data to present procedure-specific rate data had a similar rate as predicted based on national data.

### **Surgical Site Infections**

Fifteen ASC reported SSI data for three surgical procedures.

- **Breast Procedures (BRST):** Nine ASC performed breast procedures. One had sufficiently robust data<sup>1</sup> to present a facility-specific SIR for SSI following breast procedures. This facility observed a similar number of SSI as predicted based on national data. Overall, three SSI following breast procedures were reported, a number considered similar to the predicted number of infections based on national data.
- **Hernia Procedures (HER):** Eight ASC performed hernia procedures; none had sufficiently robust data to present a SIR. No SSI following hernia procedures were reported. Overall, SSI rates were similar to national data.
- **Open Reduction of Fracture Procedures (FX):** Ten ASC performed open reduction of fracture procedures; none had sufficiently robust data to present a SIR. No SSI following open reduction of fracture procedures were reported. Overall, SSI rates were similar to national data.

### **Surgical Intravenous Antimicrobial Prophylaxis Administration**

Twenty-five ASC that administer intravenous (IV) surgical antimicrobial prophylaxis were licensed for the entire 2015 calendar year and therefore required to report IV surgical antimicrobial prophylaxis timing administration data. This prophylaxis was provided within the

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<sup>1</sup> Data are not shown for facilities with less than one predicted infection or fewer than 20 procedures performed.

appropriate timeframe for 98.5% of reported orders. Two ASC observed lower adherence, four ASC observed higher adherence, and nine observed similar adherence compared to the State adherence percentage.

### **Influenza Vaccination Coverage in Ambulatory Surgery Center Healthcare Personnel**

Thirty ASC licensed at any point during the 2015-16 influenza season were required to report healthcare personnel (HCP) influenza vaccination percentages. Vaccination coverage by ASC ranged from 39.5% to 100%, and the overall State percentage among ASC was 76.3%. Thirteen ASC had vaccination percentages similar to the overall State ASC vaccination percentage, eleven ASC reported vaccination percentages that were significantly higher than the overall State ASC vaccination percentage, and four ASC reported vaccination percentages that were significantly lower than the overall State ASC vaccination percentage.

### **Conclusion**

This fourth report of NH ASC HAI data is an important part of continuing progress toward the goal of eliminating HAI in NH. This report provides selected HAI data that can be used by healthcare facilities in the state to identify areas for improvement as well as by healthcare consumers to make informed healthcare decisions.

## **I. INTRODUCTION**

### **Purpose**

This report represents the fourth summary of healthcare-associated infection (HAI)-related data reported by ambulatory surgery centers (ASC) in New Hampshire (NH) during calendar year 2015. This report can be used by healthcare facilities in the State to identify areas for improvement as well as by healthcare consumers to make informed healthcare decisions.

### **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.

### **How to Use This Document**

This document includes aggregate data reported by all licensed ASC in NH. This report also includes individual ASC reports on page 49. The document consists of six sections:

- I) Introduction
- II) Surveillance methods
- III) Statewide data
  - a. Overall NH data in ASC
  - b. Surgical site infection (SSI) standardized infection ratios and rates following breast, hernia, and open reduction of fracture procedures
  - c. Surgical intravenous (IV) antimicrobial prophylaxis administration
  - d. Percentage of HCP receiving influenza vaccination
- IV) Conclusions
- V) Individual hospital reports
- VI) Appendices
  - a. Technical notes
  - b. Influenza vaccination survey questions, 2015-2016 season
  - c. Understanding the relationship between HAI comparison metrics
  - d. Map of NH ASC

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

### **Background on Healthcare-Associated Infections**

A 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.<sup>ii</sup> This may represent a decreasing trend because previous studies depict higher numbers of HAI; 1.7 million infections

and 99,000 deaths each year.<sup>iii</sup> 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.<sup>iv</sup> 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.<sup>v</sup> The most common HAI are pneumonia, gastrointestinal illness, primary bloodstream infections (BSI), and SSI.<sup>ii</sup> SSI are estimated to cause 244,385 infections and cost between 3.45 and 10.07 billion dollars annually.<sup>ii,iv</sup>

### **Healthcare-Associated Infections in Outpatient Settings**

ASC are a growing and important healthcare setting, susceptible to HAI. In recent decades, healthcare delivery has shifted from acute care hospitals to a variety of outpatient and ambulatory settings. More than three quarters of all operations in the U.S. are performed on an outpatient basis.<sup>vi</sup> ASC provide approximately 40% of all Centers for Medicare and Medicaid Services (CMS) outpatient surgeries and perform more than 25 million procedures a year. There are more than 5,300 CMS-certified ASC in the U.S. which commonly perform cataract surgery, gastrointestinal endoscopies and pain management.<sup>vii</sup>

Past outbreak investigations by the Centers for Disease Control and Prevention (CDC) and other state health jurisdictions have identified poor infection control prevention practices at some ASC, including problems with injection safety, instrument reprocessing, sterilization, and disinfection.<sup>vii</sup> ASC often have limited numbers of dedicated infection preventionists with specialized training, no standard method for identifying infections in the 90 days following a procedure, and varying degrees of electronic medical records and information technology support. With ASC playing such an important role in the current healthcare delivery system, it is critical that they follow guidelines and take measures to minimize the risk of HAI.

### **New Hampshire Healthcare-Associated Infections Program**

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. The intent of the bill is to provide HAI data by hospital or ASC in a publicly accessible forum. Because the bill did not identify funding to carry out these activities, mandatory reporting was not fully implemented until January 2009.

During the 2010 legislative season, the NH Legislature passed House Bill 1548 (2010) amending RSA 151:32-35 to also require all licensed ASC to report HAI to DHHS beginning July 1, 2011.

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

- SSI following breast, hernia, and open reduction of fracture procedures (via National Healthcare Safety Network [NHSN]). Only those ASC that perform the selected surgical procedures enroll and report data to NHSN.
- Surgical IV antimicrobial prophylaxis administration (via DHHS template). Only those ASC that administer IV surgical antimicrobial prophylaxis report administration data.

- Influenza vaccination in HCP (via DHHS web survey). All ASC report influenza vaccination in HCP.

All ASC required to report SSI successfully enrolled in NHSN and began reporting the required data in July 2011. See Figure 1 on page 16 regarding types of HAI reported to NH DHHS.

### **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, 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 a 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>.

### **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, New Hampshire, Rhode Island, and Vermont:

[www.HealthCareForNewEngland.org](http://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.

### **Healthcare-Associated Infections Technical Advisory Workgroup**

In the spring of 2009, DHHS formed the 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, 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 New Hampshire Hospital Association, the New Hampshire Healthcare Quality Assurance Commission, the New Hampshire Ambulatory Surgery Association, and the Northeast Health Care Quality Foundation (see page 15 for a list of TAW members during the 2015 reporting year).

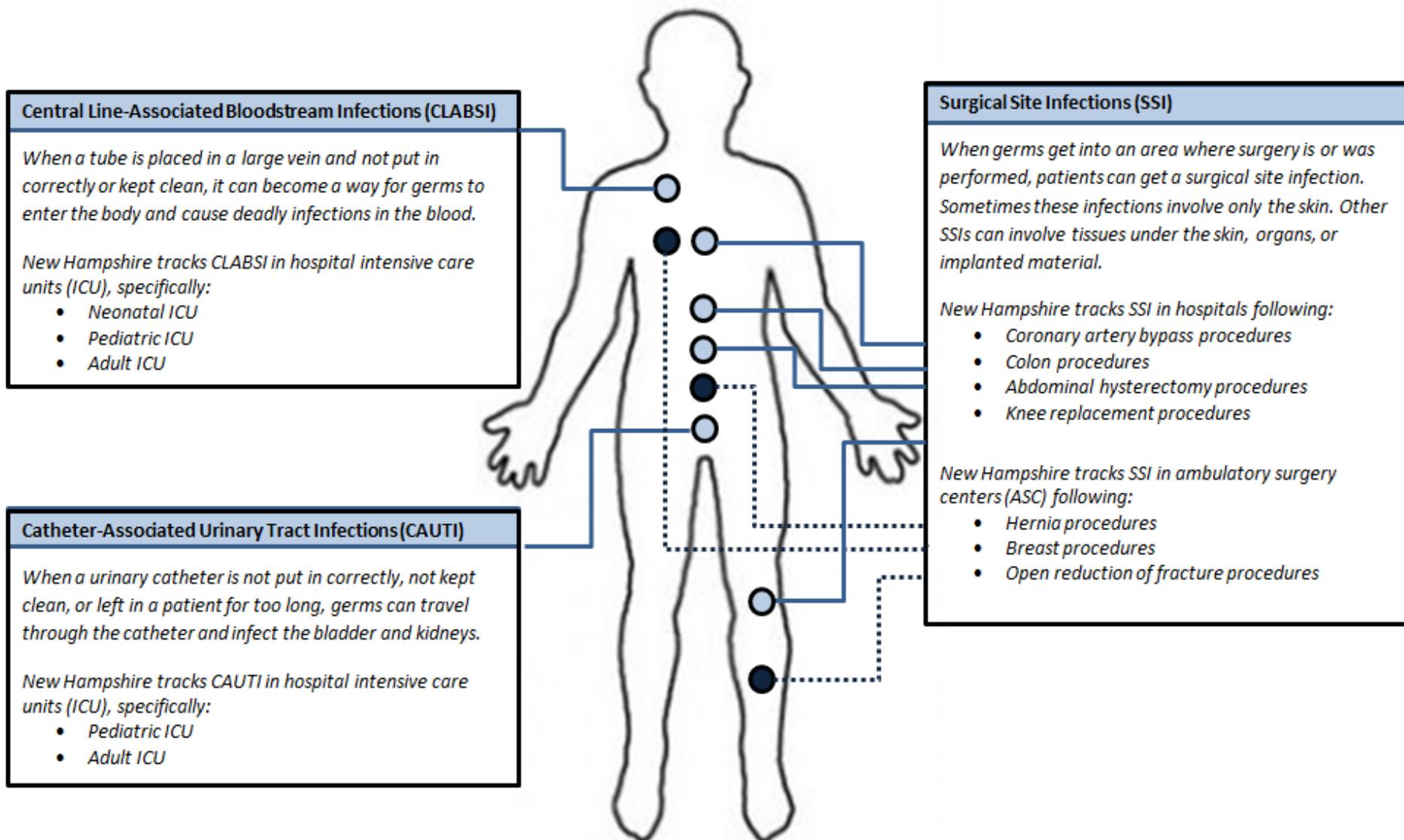
**HEALTHCARE-ASSOCIATED INFECTIONS TECHNICAL ADVISORY WORKGROUP**

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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**

### **2015 Healthcare-Associated Infections Reporting Requirements for New Hampshire ASC**

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 2012-2015 included the following required measures for ASC:

- SSI following breast, hernia, and open reduction of fracture procedures
- Surgical IV antimicrobial prophylaxis administration
- Influenza vaccination in HCP

While all licensed ASC are required to report the selected measures under RSA 151:33, some ASC (endoscopy, ophthalmology, and pain centers) that do not perform the selected surgeries or provide IV antibiotic prophylaxis do not report SSI or antibiotic prophylaxis measures.

#### **Selection of Reporting Requirements**

RSA 151:33 broadly requires reporting of all SSI in ASC; however, it was not feasible to perform surveillance for all of these infections using NHSN. In order to generate infection measures for ASC 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, CDC released a report titled “Guidance on Public Reporting of Healthcare-Associated Infections: Recommendations of the Healthcare Infection Control Practices Advisory Committee” (HICPAC).<sup>viii</sup> 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.

In 2008, the HAI Working Group<sup>2</sup> of the Joint Public Policy Committee released “Essentials of Public Reporting of Healthcare-Associated Infections: A Tool Kit.”<sup>ix</sup> The HAI Working Group agreed with most of the CDC/HICPAC document, “Guidance on Public Reporting of Healthcare-Associated Infections” (referenced above). The toolkit recommends monitoring the following measures applicable to ASC:

- Surgical procedures that are performed with adequate frequency to permit meaningful comparisons among institutions
- HCP influenza vaccination coverage

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<sup>2</sup> The HAI Working Group of the Joint Public Policy Committee is a multi-organizational group represented by APIC, CDC, Council of State and Territorial Epidemiologists, and Society for Healthcare Epidemiology of America.

Within the context of RSA 151:33, DHHS surveyed ASC and reviewed national guidelines, including National Quality Forum (NQF)-endorsed measures and capabilities of NHSN in selecting outcome 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.

### **Accuracy of Reported Healthcare-Associated Infections Surveillance Data**

DHHS conducted a validation study of 2009-2010 hospital 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 could not validate ASC data due to limited resources, including lack of nationally-developed guidance toward validating outpatient surgery data. The 2015 data presented in this report must therefore be interpreted with the understanding that, in general, there is potential for both under- and over-reporting of infections. The HAI Program is currently exploring options to validate ASC data on a rolling basis.

Despite lack of external data validation, several processes were implemented to ensure that the 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 2015 from each ASC. This review identified any obvious reporting errors or internal inconsistencies that suggested errors. Third, DHHS provided data reports to each ASC asking the facility to confirm that the data reported to DHHS was accurate. This reconciliation process was iterative until all ASC made corrections and agreed to the reported data.

While definitions for classifying an infection as healthcare-associated are standardized through the use of NHSN, methods to identify the infection in each ASC are not. Identifying patients who develop SSI after discharge from the ASC can be difficult, and each ASC may use a different method of post-discharge surveillance (e.g., letters to surgeons, chart reviews for surgical patients, post-operative office visits, etc.). These different approaches vary in sensitivity.

### **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 U.S., offers already developed and accepted surveillance definitions and methods, 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>.

### **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.”<sup>x</sup> This report is available at:

<http://www.cdc.gov/nhsn/PDFs/dataStat/2009NHSNReport.PDF>.

## **Surgical Site Infections Surveillance**

A SSI is an infection that develops at the site of a surgical procedure. There are different ways to classify a SSI, such as whether it is superficial, in deep tissue, or in the organ/space. Monitoring for a SSI may continue for as little as 30 days after the procedure or as long as 90 days based on depth and procedure type. In 2015, ASC were required to monitor and report SSI for three procedures:

- Breast procedures (excision of lesion or tissue of breast including radical, modified, or quadrant resection, lumpectomy, incisional biopsy, or mammoplasty)
  - NHSN Operative Procedure BRST (CPT codes: 19101, 19112, 19120, 19125, 19126, 19300-19307, 19316, 19318, 19324, 19325, 19328, 19330, 19340, 19342, 19350, 19355, 19357, 19361, 19364, 19366-19371, 19380)
- Hernia procedures (repair of inguinal, femoral, umbilical, or anterior abdominal wall hernia; does not include repair of diaphragmatic or hiatal hernia or hernias at other body sites)
  - NHSN Operative Procedure HER (CPT codes: 49491, 49492, 49495, 49496, 49500, 49501, 49505, 49507, 49520, 49521, 49525, 49550, 49553, 49555, 49557, 49560, 49561, 49565, 49566, 49568, 49570, 49572, 49580, 49582, 49585, 49587, 49590, 49650-49657, 49659, 55540)
- Open reduction of fracture procedures (open reduction of fracture or dislocation of long bones with internal or external fixation; does not include placement of joint prosthesis)
  - NHSN Operative Procedure FX (CPT codes: 23615, 23616, 23630, 23670, 23680, 24515, 24516, 24538, 24545, 24546, 24575, 24579, 24586, 24587, 24635, 24665, 24666, 24685, 25337, 25515, 25525, 25526, 25545, 25574, 25575, 25607, 25608, 25609, 25652, 27236, 27244, 27245, 27248, 27254, 27269, 27283, 27506, 27507, 27511, 27513, 27514, 27535, 27536, 27540, 27758, 27759, 27766, 27769, 27784, 27792, 27814, 27822, 27826, 27827, 27828)

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. NSHN did not offer capacity for DHHS to calculate the standardized infection ratio (SIR) for ASC, allowing for more robust risk factor adjustment. Instead, DHHS used more limited risk categories (SSI risk index) to manually calculate SSI SIR by ASC. The basic SSI risk index assigns surgical patients into categories based on the presence of three major risk factors:

- Operation lasting more than the duration of cut point hours<sup>3</sup>
- Contaminated (Class III) or Dirty/infected (Class IV) surgical wound class

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<sup>3</sup> 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. For example: The duration cut point for an abdominal hysterectomy is two hours and twenty three minutes.

- American Society of Anesthesiologists (ASA) Classification of Physical Status score of 3, 4, or 5 (see below)

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 score 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>.

Limitations of SSI surveillance:

- ASC do not use a standard method of post-discharge surveillance to identify infections. This may make data interpretation difficult because a higher SSI rate (for example) at an ASC could be a reflection of poor infection prevention practices or perhaps a more comprehensive system for identifying infections.
- SSI reporting only includes a subset of procedures. DHHS elected this subset based on national recommendations because it would not be feasible for ASC to report information on every patient receiving any surgical procedure due to the burden of reporting through NHSN.
- Some procedures require monitoring for SSI for 90 days after the procedure depending on the depth of infection (in NH, this includes breast, hernia, and open reduction of

fracture procedures). This is challenging in the outpatient setting when ASC rely on post-discharge surveillance.

- The SSI data presented in this report include all types of infections, including superficial SSI, which can occur as a result of care in the ASC but also as a result of the patient's care of the surgical site once discharged.
- Some procedures may be excluded from SIR analysis due to incomplete information.
- Salem Surgery Center closed October 2015. Orchard Surgery Center started performing surgeries March 2015. Any facility that did not have 12 months of data was excluded.
- DHHS does not calculate the ASC SIR in NHSN due to system limitations. The SIR calculated in NHSN would use more robust SSI probabilities estimated from multivariate logistic regression models developed by NHSN. Unfortunately, this functionality is not currently available in NHSN for all procedures followed by NH ASC. The SIR manually calculated by DHHS do not adjust for as many patient or procedure risk factors as NHSN, only accounting for the presence of three major risk factors (SSI risk index).
- The 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. For example, bilateral procedures, such as breast or open reduction of fracture procedures, should be reported as two separate procedures, however it is likely that some facilities under-reported procedures by reporting bilateral procedures as only one procedure. This could potentially increase or decrease the rate and/or SIR.

### **Surgical Intravenous Antimicrobial Prophylaxis Administration**

New Hampshire ASC reported surgical IV antimicrobial prophylaxis data following NQF-endorsed protocols to DHHS, specifically:

- Procedure type, date and time of procedure, time of antibiotic administration, and antibiotic administered for all pre-operative orders of selected IV antibiotics intended for the prevention of SSI.

An antibiotic is considered administered on time when antibiotic infusion is initiated within one hour prior to the time of the initial surgical incision or the beginning of a procedure, or two hours prior if vancomycin or selected fluoroquinolones are administered.

This process measure shows an ASC adherence rate to best practices designed to reduce SSI. ASC follow the NQF specification manual located at:

<http://ascquality.org/documents/ASCQualityCollaborationImplementationGuide.1.7.pdf>.

#### Limitations for surgical intravenous antimicrobial prophylaxis administration:

- Data collection and documentation techniques at ASC vary, which may affect how necessary data elements are reported (e.g., antibiotic administration or procedure start time) and ultimately impact facilities' overall adherence percentage.

- Surgical IV antimicrobial prophylaxis data are reported using time from infusion to start of procedure. There are some rare instances when administrations of surgical antimicrobial prophylaxis are recorded as having an interval of 00:00 and/or 1:00 between administration and procedure start time, or, alternatively, of 00:00 and/or 2:00 for antibiotics that may be administered up to two hours prior to the procedure start. These cases were excluded from analysis.

### **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, vaccination coverage among HCP remains low nationally. In a CDC survey, influenza vaccination coverage in HCP nationally was 77.3% during the 2014-15 influenza season.<sup>xi</sup> 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 ASC do have policies requiring mandatory HCP vaccination.

All ASC are required to report HCP vaccination aggregate data directly to DHHS via an online survey that is provided to facilities. See Appendix 2 for the 2015-16 survey questions regarding influenza vaccination. 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, 2015 and March 31, 2016 by the total number of HCP immunized against influenza for the 2015-16 influenza season.

#### Limitations for influenza vaccination monitoring:

- The survey asks for the total number of HCP vaccinated. This may not reflect the number of HCP to whom the vaccine was offered. ASC may vary in the refusal rate for vaccination among HCP and the reasons for such refusal. Additionally, some HCP may not be eligible to receive the vaccine. The survey attempted to assess why unvaccinated HCP did not receive the vaccine, however, not all ASC were able to report this information.
- Because the 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 available by location where the vaccination was received (e.g., at the reporting facility or elsewhere).

- Data collection techniques at ASC 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.
- Some ASC have very few HCP and may never be able to achieve a vaccination percentage significantly higher than the State percentage due to sparse data.
- For the 2014-15 influenza season, CMS 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 contain more duplicate data than in prior influenza seasons.
- More ASC are reporting data in NHSN. This could potentially explain the decrease of 2015/16 HCP State percentages.

### 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 group, procedure, and healthcare facility to gain a better understanding of the incidence of HAI while still adjusting for underlying patient or healthcare facility 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 rate information is also provided where possible, which represents the number of infections that occurred, taking into account the number of procedures that were performed. Rate data are limited by the requirement to only calculate rates that are broken down by certain factors. 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, a SIR of 1.0 means that exactly the same number of infections were observed than were predicted. A 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). A 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 or rate: fewer than predicted   ■ SIR or rate: similar to predicted   ■ SIR or rate: more than predicted

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

#### Statewide Standardized Infection Ratios

Table 1 and Figure 2 below shows the number of SSI following the three monitored procedures reported by ASC in NH. In 2015, there were three SSI reported by the 15 ASC in NH licensed for the entire 2015 calendar year and required to report these data. These three infections represent SSI following breast, hernia, and open reduction of fracture procedures. Based on

national data, 6.33 infections were predicted. The overall observed number of SSI was 53% fewer than predicted based on national data. Looking individually at the specific procedures, there were 23% fewer breast infections, 100% fewer hernia infections, and 100% fewer open reduction of fracture infections than predicted; however, the differences for all of these were not statistically significant and the number of infections observed is considered similar to national data.

The analysis presented in Table 2 shows that the two ASC with sufficiently robust data observed a similar number of infections as predicted. For breast procedures (Table 3), one ASC observed a similar number of infections as predicted. For hernia and open reduction of fracture procedures (Tables 4 and 5), none of the ASC had sufficiently robust data to display the SIR.

**Table 1. Statewide ambulatory surgery center standardized infection ratios, Jan 1–Dec 31, 2015**

	<b>Observed Infections</b>	<b>Predicted Infections</b>	<b>Standardized Infection Ratio (SIR)</b>	<b>95% Confidence Interval</b>	<b>Comparison to Predicted Number of Infections</b>
<b>Overall SSI SIR</b>	3	6.33	0.47	0.10 , 1.39	Similar
	The overall observed number of SSI in New Hampshire ASC was 53% fewer than predicted based on national data. This difference is not statistically significant, which means the overall number of SSI in the state is SIMILAR to the number seen nationally.				
<b>BRST SIR</b>	3	3.88	0.77	0.16 , 2.26	Similar
	The overall observed number of BRST infections in New Hampshire ASC was 23% fewer than predicted based on national data. This difference is not statistically significant, which means the overall number of BRST infections in the state is SIMILAR to the number seen nationally.				
<b>HER SIR</b>	0	1.45	0.00	- , 2.53	Similar
	The overall observed number of HER infections in New Hampshire ASC was 100% fewer than predicted based on national data. This difference is not statistically significant, which means the overall number of HER infections in the state is SIMILAR to the number seen nationally.				
<b>FX SIR</b>	0	0.99	0.00	- , 3.69	Similar
	The overall observed number of FX infections in New Hampshire ASC was 100% fewer than predicted based on national data. This difference is not statistically significant, which means the overall number of FX infections in the state is SIMILAR to the number seen nationally.				

HAI: Healthcare-associated infection

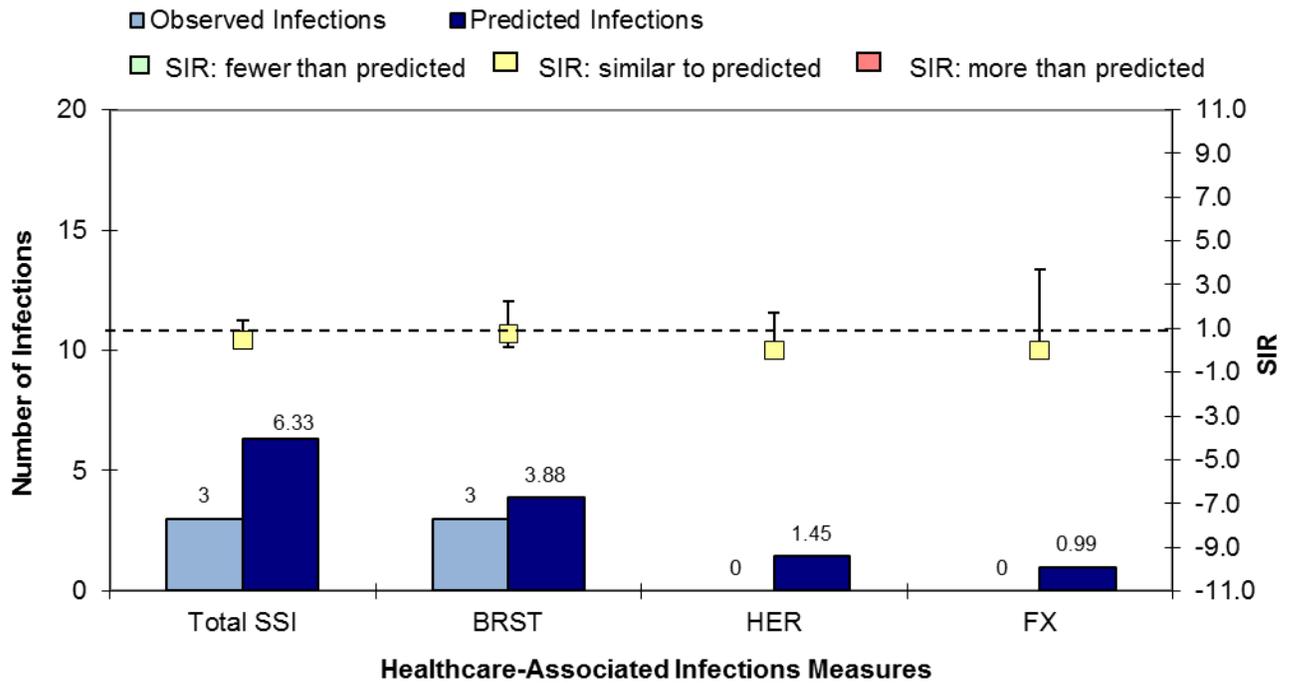
SSI: Surgical site infections

BRST: Surgical site infections associated with breast procedures

HER: Surgical site infections associated with hernia procedures

FX: Surgical site infections associated with open reduction of fracture procedures

**Figure 2. Statewide ambulatory surgery center standardized infection ratios for surgical site infections, Jan 1–Dec 31, 2015**



SSI: Surgical site infections  
 BRST: Surgical site infections associated with breast procedures  
 HER: Surgical site infections associated with hernia procedures  
 FX: Surgical site infections associated with open reduction of fracture procedures

**Overall Standardized Infection Ratios by Ambulatory Surgery Center**

Table 2 below shows the total number of SSI reported by each ASC following breast, hernia, and open reduction of fracture procedures. Two ASC had sufficiently robust data to provide in the table. Of these, both ASC observed a similar number of infections as were predicted based on national data. Tables 3 through 5 show the number of SSI following each procedure. SSI data following breast procedures were robust enough to present data for one ASC; considered similar to national data. Data were not robust enough to present SIR by each facility following hernia and open reduction of fracture procedures.

**Table 2. Overall surgical site infection standardized infection ratios by ASC, Jan 1–Dec 31, 2015**

ASC	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted Number of Infections
ASC, DH Manchester	-	-	-	-	-
Atlantic Plastic Surgery	0	1.08	0.00	-, 3.41	Similar
Bedford ASC	†	†	†	†	†
Center for Outpatient Care	†	†	†	†	†
Concord ASC	†	†	†	†	†
Elliot 1-Day Surgery Center	2	1.29	1.06	0.12 , 3.82	Similar
Hillside Surgical Center	†	†	†	†	†
Laconia Clinic ASC	-	-	-	-	-
Nashua ASC	†	†	†	†	†
Northeast Surgical Care	†	†	†	†	†
Orthopaedic Surgery Center	†	†	†	†	†
Orthopaedic Surgery Center, Derry	†	†	†	†	†
Portsmouth Regional ASC	†	†	†	†	†
Salem Surgery Center	-	-	-	-	-
Stratham ASC	†	†	†	†	†
Surgery Center of Greater Nashua	†	†	†	†	†
<b>State Total</b>	3	6.33	0.47	0.10 , 1.39	Similar

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

- Facility was either closed or did not perform any of these procedures during 2015.

Note: Two procedures were excluded due to incomplete information.

**Table 3. Breast procedure-associated surgical site infections standardized infection ratios by ASC, Jan 1–Dec 31, 2015**

ASC	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted Number of Infections
Atlantic Plastic Surgery	0	1.08	0.00	-, 3.41	Similar
Bedford ASC	†	†	†	†	†
Center for Outpatient Care	†	†	†	†	†
Concord ASC	†	†	†	†	†
Elliot 1-Day Surgery Center	†	†	†	†	†
Nashua ASC	†	†	†	†	†
Salem Surgery Center	-	-	-	-	-
Stratham ASC	†	†	†	†	†
<b>State Total</b>	3	3.88	0.77	0.16 , 2.26	Similar

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

- Facility permanently closed October 2015.

Note: Facilities that did not perform this procedure in 2015 are not included in this table.

Note: One procedure was excluded due to incomplete information.

**Table 4. Hernia procedure-associated surgical site infections standardized infection ratios by ASC, Jan 1–Dec 31, 2015**

ASC	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted Number of Infections
Bedford ASC	†	†	†	†	†
Center for Outpatient Care	†	†	†	†	†
Concord ASC	†	†	†	†	†
Elliot 1-Day Surgery Center	†	†	†	†	†
Portsmouth Regional ASC	†	†	†	†	†
Salem Surgery Center	-	-	-	-	-
Stratham ASC	†	†	†	†	†
Surgery Center of Greater Nashua	†	†	†	†	†
<b>State Total</b>	0	1.45	0.00	-, 2.53	Similar

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

- Facility permanently closed October 2015.

Note: Facilities that did not perform this procedure in 2015 are not included in this table.

Note: One procedure was excluded due to incomplete information.

**Table 5. Open reduction of fracture procedure-associated surgical site infections standardized infection ratios by ASC, Jan 1–Dec 31, 2015**

ASC	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted Number of Infections
Bedford ASC	†	†	†	†	†
Center for Outpatient Care	†	†	†	†	†
Elliot 1-Day Surgery Center	†	†	†	†	†
Hillside Surgical Center	†	†	†	†	†
Nashua ASC	†	†	†	†	†
Northeast Surgical Care	†	†	†	†	†
Orthopaedic Surgery Center	†	†	†	†	†
Orthopaedic Surgery Center-Derry	†	†	†	†	†
Portsmouth Regional ASC	†	†	†	†	†
Surgery Center of Greater Nashua	†	†	†	†	†
<b>State Total</b>	0	0.99	0.00	-, 3.69	Similar

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

Note: Facilities that did not perform this procedure in 2015 are not included in this table.

**Overall Statewide Standardized Infection Ratios: Comparison to 2014 Data**

The statewide SIR in 2015 is similar compared to 2014; however, this difference was not statistically significant. In 2015, a total of three SSI were reported compared to four SSI in 2014.

**Table 6. Overall surgical site infection standardized infection ratios, comparison between 2014 and 2015**

ASC	Standardized Infection Ratio (SIR) 2015	95% Confidence Interval 2015	Standardized Infection Ratio (SIR) 2014	95% Confidence Interval 2014	2014 Compared to 2015
Overall SSI SIR	0.47	0.10 , 1.39	0.46	0.12 , 1.18	Similar
BREAST SIR	0.77	0.16 , 2.26	0.54	0.11 , 1.58	Similar
HER SIR	0.00	-, 2.53	0.00	-, 1.74	Similar
FX SIR	0.00	-, 3.69	0.96	0.01 , 5.36	Similar

SSI: Surgical site infections

BRST: Surgical site infections associated with breast procedures

HER: Surgical site infections associated with hernia procedures

FX: Surgical site infections associated with open reduction of fracture procedures

**Table 7. Overall surgical site infections standardized infection ratios by ASC, comparison between 2014 and 2015**

ASC	Standardized Infection Ratio (SIR) 2015	95% Confidence Interval 2015	Standardized Infection Ratio (SIR) 2014	95% Confidence Interval 2014	2015 Compared to 2014
ASC, DH Manchester	-	-	†	†	N/A
Atlantic Plastic Surgery	0.00	- , 3.41	0.00	- , 3.23	Similar
Bedford ASC	†	†	†	†	†
Center for Outpatient Care	†	†	0.76	0.01 , 4.22	N/A
Concord ASC	†	†	1.62	0.36 , 5.85	N/A
Elliot 1-Day Surgery Center	1.06	0.12 , 3.82	0.50	0.01 , 2.77	Similar
Hillside Surgical Center	†	†	†	†	†
Laconia Clinic ASC	-	-	†	†	N/A
Nashua ASC	†	†	†	†	†
Northeast Surgical Care	†	†	†	†	†
Orthopaedic Surgery Center	†	†	†	†	†
Orthopaedic Surgery Center, Derry	†	†	-	-	N/A
Portsmouth Regional ASC	†	†	†	†	†
Salem Surgery Center	*	*	†	†	N/A
Stratham ASC	†	†	†	†	†
Surgery Center of Greater Nashua	†	†	†	†	†
<b>State Total</b>	0.47	0.10 , 1.39	0.46	0.12 , 1.18	Similar

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

- Facility was either closed or did not perform any of these procedures during 2015.

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 was censored for one or more of the years presented.

Note: Facilities that did not perform this procedure in 2014 and 2015 are not included in this table.

### Surgical Site Infection Rates

The statewide rates for infections following breast, hernia, and open reduction of fracture procedures for patients in their respective risk categories were similar to national rates (Table 8, Figures 3-5). Tables 9 through 11 provide rates of SSI per 100 procedures by ASC. All ASC had a rate similar to national data for all procedure categories selected. Note that rates are calculated individually for type of procedure and risk category of patient. This ensures that data are risk-adjusted. Because data are sparse when broken down into categories, interpretation of rate data can be difficult. For risk adjustment, surgical patients are assigned into categories based on presence of three major risk factors, although there may be other risk factors for

infection. The patient’s risk category is the number of the following risk factors present at the time of the operation:

- a. Operation lasting more than the duration cut point hours
- b. Contaminated or Dirty/Infected wound class (Class III or Class IV)
- c. ASA score of 3, 4, or 5

See methods section for more information on SSI risk adjustment.

**Table 8. Statewide infection rates, Jan 1–Dec 31, 2015**

Infection Outcome Measure	Infections	Procedures	State Rate*	National Rate	P-value	State Rate Compared to National Rate
BRST SSI Rate						
Risk Category 0	0	1,243	0.00	0.32	0.08	Similar
Risk Category 1,2,3	3	214	1.40	1.06	0.68	Similar
HER SSI Rate						
Risk Category 0,1	0	295	0.00	0.46	0.27	Similar
Risk Category 2,3	†	†	†	†	†	†
FX SSI Rate						
Risk Category 0,1,2,3	0	355	0.00	0.28	0.45	Similar

\* Denominator is number of total procedures performed. SSI rate is the number of infections per 100 procedures.

† Data are not shown when fewer than 20 procedures were performed

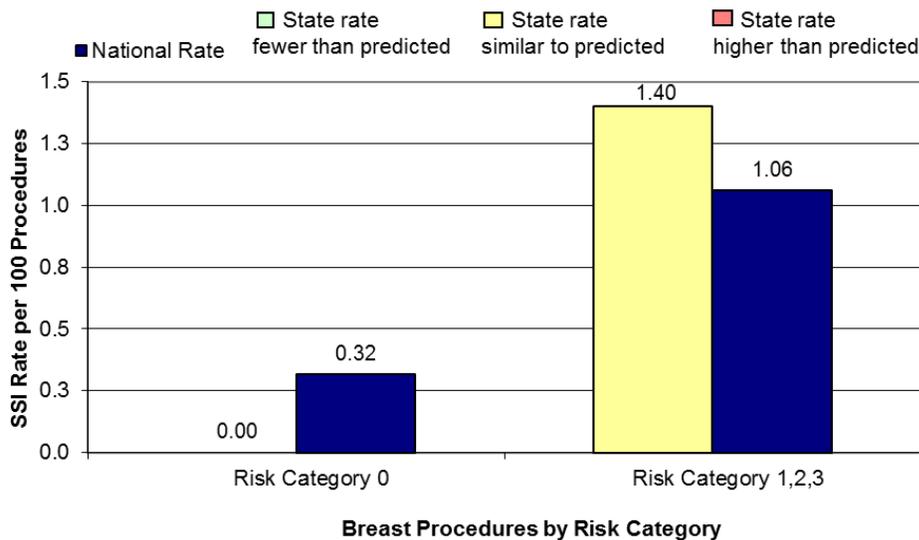
SSI: Surgical site infections

BRST: Surgical site infections associated with breast procedures

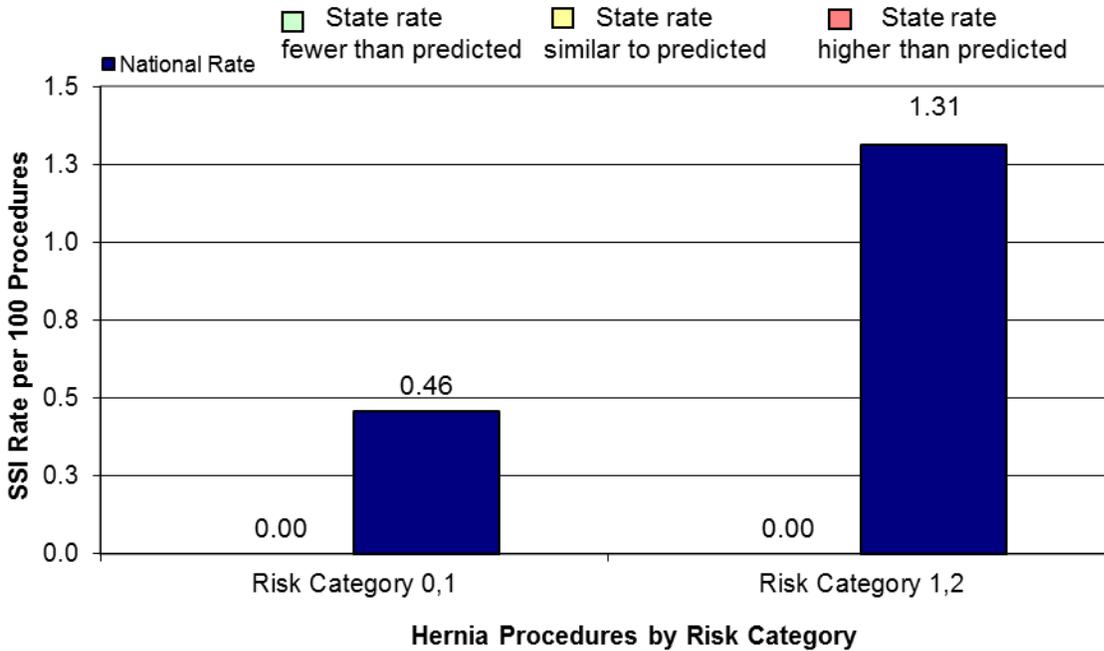
HER: Surgical site infections associated with hernia procedures

FX: Surgical site infections associated with open reduction of fracture procedures

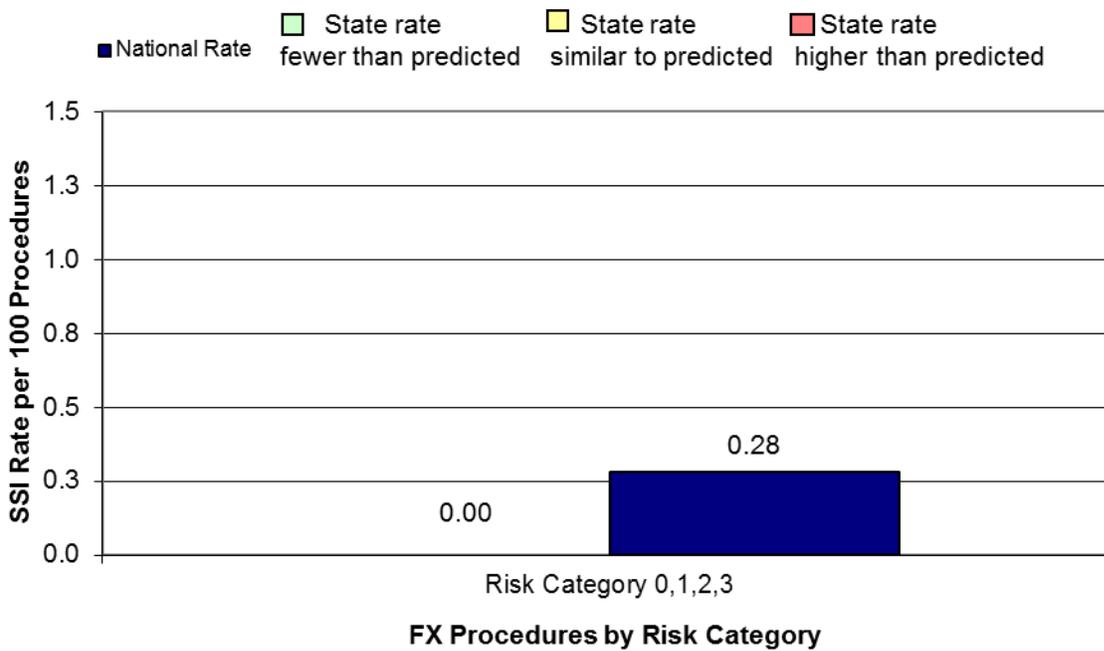
**Figure 3. Statewide rates for breast procedure-associated surgical site infections, Jan 1-Dec 31, 2015**



**Figure 4. Statewide rates for hernia procedure-associated surgical site infections, Jan 1-Dec 31, 2015**



**Figure 5. Statewide rates for open reduction of fracture procedure-associated surgical site infections, Jan 1-Dec 31, 2015**



**Table 9. Breast procedure-associated surgical site infection rates by risk category and ASC, Jan 1– Dec 31, 2015**

ASC	Infections	Procedures	ASC Rate (%)	National Rate (%)	p-value	ASC rate Compared to National Rate
<b>Risk Category 0</b>						
Atlantic Plastic Surgery	0	184	0.00	0.32	0.587	Similar
Bedford ASC	0	130	0.00	0.32	0.680	Similar
Center for Outpatient Care	0	46	0.00	0.32	0.867	Similar
Concord ASC	0	141	0.00	0.32	0.659	Similar
Elliot 1-Day Surgery Center	0	195	0.00	0.32	0.570	Similar
Laconia Clinic ASC	†	†	†	†	†	†
Nashua ASC	0	2	0.00	0.32	0.994	Similar
Salem Surgery Center	-	-	-	-	-	-
Stratham ASC	0	72	0.00	0.32	0.803	Similar
<b>State Total</b>	0	1,243	0.00	0.32	0.081	Similar
<b>Risk Category 1, 2, 3</b>						
Atlantic Plastic Surgery	0	46	0.00	1.06	0.625	Similar
Bedford ASC	†	†	†	†	†	†
Center for Outpatient Care	0	23	0.00	1.06	0.788	Similar
Concord ASC	1	21	4.76	1.06	0.254	Similar
Elliot 1-Day Surgery Center	2	28	7.14	1.06	0.059	Similar
Laconia Clinic ASC	†	†	†	†	†	†
Nashua ASC	†	†	†	†	†	†
Salem Surgery Center	-	-	-	-	-	-
Stratham ASC	0	9	0.00	1.06	0.910	Similar
<b>State Total</b>	3	214	1.40	1.06	0.675	Similar

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

- Facility permanently closed October 2015.

**Table 10.** Hernia procedure-associated surgical site infection rates by risk category and ASC, Jan 1– Dec 31, 2015

ASC	Infections	Procedures	ASC Rate (%)	National Rate (%)	p-value	ASC rate Compared to National Rate
<b>Risk Category 0, 1</b>						
Atlantic Plastic Surgery	-	-	-	-	-	-
Bedford ASC	0	33	0.00	0.46	0.861	Similar
Center for Outpatient Care	0	32	0.00	0.46	0.865	Similar
Concord ASC	†	†	†	†	†	†
Elliot 1-Day Surgery Center	0	191	0.00	0.46	0.423	Similar
Portsmouth ASC	†	†	†	†	†	†
Salem Surgery Center	-	-	-	-	-	-
Stratham ASC	†	†	†	†	†	†
Surgery Center of Greater Nashua	†	†	†	†	†	†
<b>State Total</b>	0	295	0.00	0.46	0.266	Similar
<b>Risk Category 2, 3</b>						
Atlantic Plastic Surgery	-	-	-	-	-	-
Bedford ASC	-	-	-	-	-	-
Center for Outpatient Care	†	†	†	†	†	†
Concord ASC	†	†	†	†	†	†
Elliot 1-Day Surgery Center	†	†	†	†	†	†
Portsmouth ASC	-	-	-	-	-	-
Salem Surgery Center	-	-	-	-	-	-
Stratham ASC	†	†	†	†	†	†
Surgery Center of Greater Nashua	-	-	-	-	-	-
<b>State Total</b>	†	†	†	†	†	†

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

- Facility was either closed or did not perform any of these procedures during 2015.

**Table 11. Open reduction of fracture procedure-associated surgical site infection rates by risk category and ASC, Jan 1– Dec 31, 2015**

ASC	Infections	Procedures	ASC Rate (%)	National Rate (%)	p-value	ASC rate Compared to National Rate
<b>Risk Category 0 , 1, 2, 3</b>						
Bedford ASC	0	55	0.00	0.28	0.863	Similar
Center for Outpatient Care	0	22	0.00	0.28	0.941	Similar
Elliot 1-Day Surgery Center	0	27	0.00	0.28	0.929	Similar
Hillside Surgical Center	†	†	†	†	†	†
Nashua ASC	0	49	0.00	0.28	0.876	Similar
Northeast Surgical Care	0	21	0.00	0.28	0.944	Similar
Orthopaedic Surgery Center	0	125	0.00	0.28	0.725	Similar
Orthopaedic Surgery Center, Derry	0	28	0.00	0.28	0.926	Similar
Portsmouth ASC	†	†	†	†	†	†
Salem Surgery Center	-	-	-	-	-	-
Surgery Center of Greater Nashua	†	†	†	†	†	†
<b>State Total</b>	0	355	0.00	0.28	0.447	Similar

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

- Facility was either closed or did not perform any of these procedures during 2015.

### Surgical Intravenous Antimicrobial Prophylaxis Administration

Twenty-two ASC were eligible to report surgical IV antimicrobial administration data. In NH ASC, 98.5% of 13,366 preoperative orders for IV antibiotics prescribed for the purpose of preventing SSI were administered on time, compared to 98.4% in 2014. The analysis presented in Table 12 shows that, of the 15 facilities with sufficiently robust data to present, two ASC observed lower adherence, four ASC observed higher adherence, and nine observed similar adherence compared to the State adherence percentage.

**Table 12. Performance of surgical IV antimicrobial prophylaxis by ASC, Jan 1-Dec 31, 2015**

ASC	Number of Patients that Received IV Antibiotic on Time*	Total Number of Patients that Received IV Antibiotic	% Adherence	95% Confidence Interval	ASC % Compared to State %
Atlantic Plastic Surgery	305	311	98.0	96.0 , 99.2	Similar
Barrington Surgical Care	†	†	†	†	†
Bedford ASC	2,330	2335	99.8	99.5 , 99.9	Higher
Center for Outpatient Care	1,681	1703	98.7	98.1 , 99.2	Similar
Centers for Pain Solutions	†	†	†	†	†
Concord ASC	544	546	99.6	98.8 , 99.9	Higher
Concord Endoscopy	†	†	†	†	†
Concord Eye Surgery	†	†	†	†	†
DH Nashua Endoscopy Center	34	34	100.0	91.6 , -	Similar
Dr O'Connells PCC Merrimack	†	†	†	†	†
Dr O'Connells PCC Somersworth	†	†	†	†	†
Elliot 1-Day Surgery Center	1,964	1,983	99.0	98.5 , 99.4	Similar
Hillside Surgical Center	280	283	98.9	97.1 , 99.7	Similar
Laconia Clinic ASC	35	36	97.2	87.1 , 99.9	Similar
Nashua ASC	982	1,010	97.2	96.1 , 98.1	Lower
Northeast Surgical Care	1,002	1,002	100.0	99.7 , -	Higher
Orthopaedic Surgery Center	2,434	2,530	96.2	95.4 , 96.9	Lower
Orthopaedic Surgery Center, Derry	552	558	98.9	97.8 , 99.6	Similar
Parkland Endoscopy	†	†	†	†	†
Portsmouth ASC	544	546	99.6	98.8 , 99.9	Higher
Salem Surgery Center	-	-	-	-	-
Stratham ASC	339	346	98.0	96.0 , 99.1	Similar
Surgery Center of Greater Nashua	141	143	98.6	95.5 , 99.8	Similar
<b>State Total</b>	<b>13,167</b>	<b>13,366</b>	<b>98.5</b>	<b>98.3 , 98.7</b>	

\* Antibiotic administered on time: Antibiotic infusion is initiated within one hour prior to the time of the initial surgical incision or the start of a procedure or two hours prior if vancomycin or selected flouroquinolones are ordered.

† Data are not shown when fewer than 20 preoperative IV antibiotics were ordered.

- Facility was either closed or did not perform any of these procedures during 2015.

Note: ASC, DH Manchester and Elliot Endoscopy reported no preoperative orders for IV antibiotic in 2015. Facilities that do not report preoperative IV antibiotics are not included in this table.

### Surgical Intravenous Antimicrobial Prophylaxis Administration: Comparison to 2014 Data

The statewide ASC adherence to surgical antimicrobial prophylaxis administration has remained above 98% since these data were first collected (Figure 6). Overall, in 2015 ASC adherence to surgical antimicrobial prophylaxis administration was similar when compared to 2014. Further analysis showed that, of the 15 ASC with sufficiently robust data to present, all had similar adherence in 2015 when compared with 2014.

**Figure 6. Statewide performance of surgical IV antimicrobial prophylaxis by year, 2012-2015**

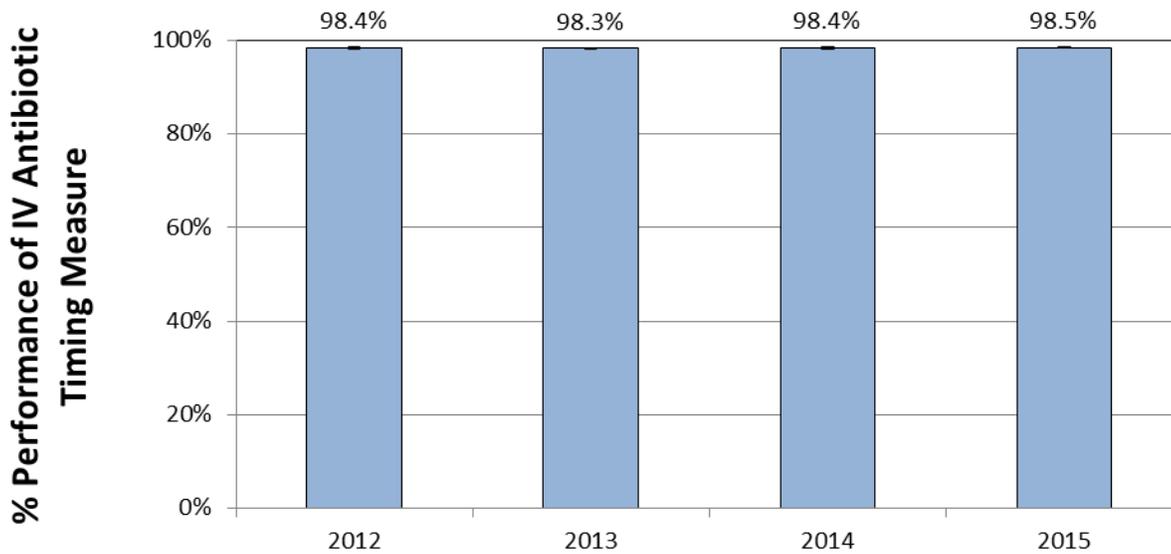
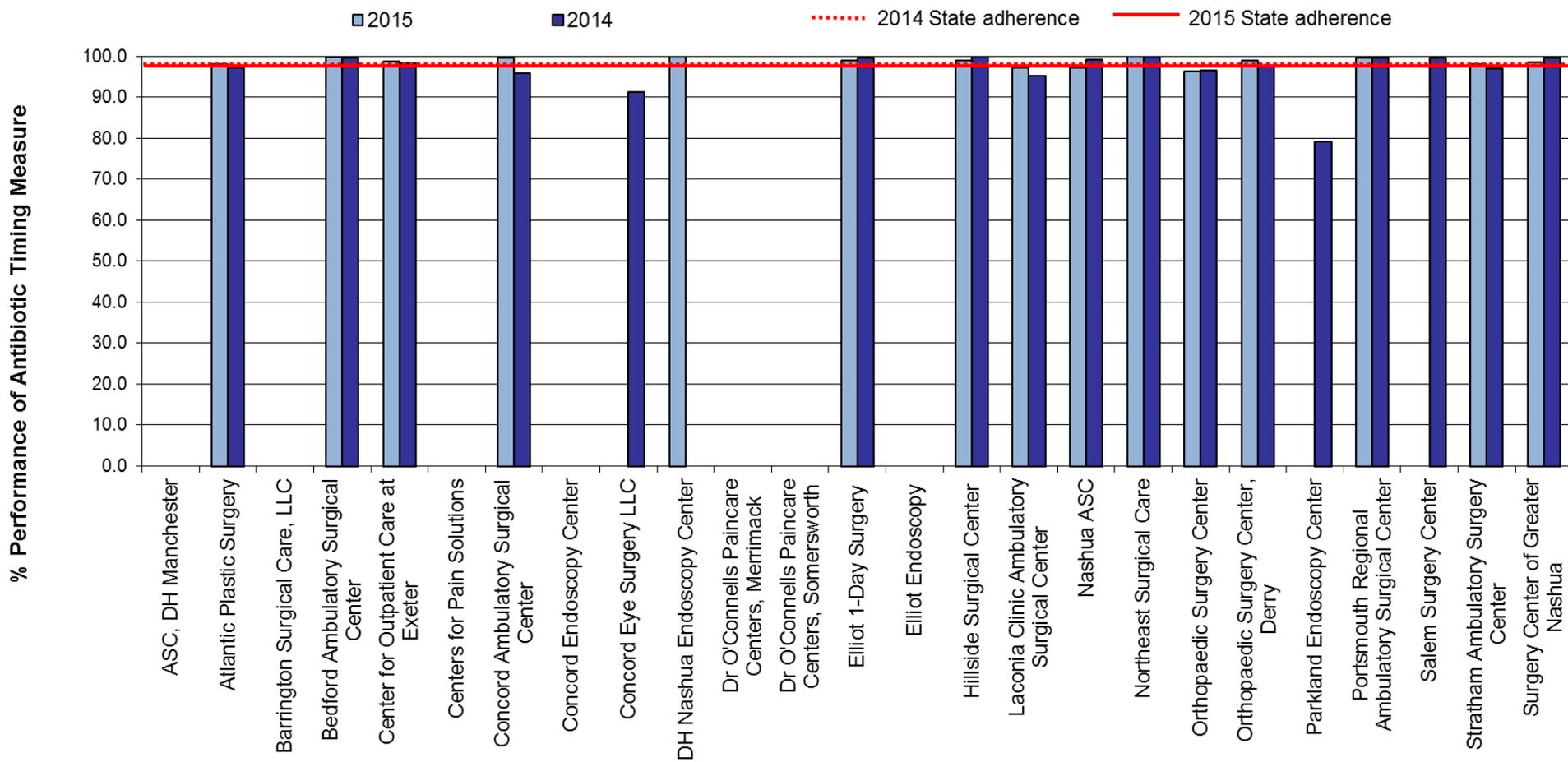


Figure 7. Performance of surgical IV antimicrobial prophylaxis by facility, 2014-2015



**Table 13. Performance of surgical IV antimicrobial prophylaxis by ASC, comparison to 2014 data**

ASC	% Adherence 2015	95% Confidence Interval 2015	% Adherence 2014	95% Confidence Interval 2014	2015 Compared to 2014
ASC, DH Manchester	-	-	-	-	-
Atlantic Plastic Surgery	98.0	96.0 , 99.2	97.2	95.1 , 98.6	Similar
Barrington Surgical Care	†	†	†	†	†
Bedford ASC	99.8	99.5 , 99.9	99.6	99.2 , 99.8	Similar
Center for Outpatient Care	98.7	98.1 , 99.2	98.3	97.5 , 98.9	Similar
Centers for Pain Solutions	†	†	†	†	†
Concord ASC	99.6	98.8 , 99.9	95.8	94.2 , 97.1	Higher
Concord Endoscopy	†	†	†	†	†
Concord Eye Surgery	†	†	91.3	74.1 , 98.5	N/A
DH Nashua Endoscopy Center	100.0	91.6 , -	†	†	N/A
Dr O'Connells PCC Merrimack	†	†	†	†	†
Dr O'Connells PCC Somersworth	†	†	†	†	†
Elliot 1-Day Surgery Center	99.0	98.5 , 99.4	99.5	99.1 , 99.8	Similar
Elliot Endoscopy	†	†	†	†	†
Hillside Surgical Center	98.9	97.1 , 99.7	100.0	98.7 , -	Similar
Laconia Clinic ASC	97.2	87.1 , 99.9	95.2	87.6 , 98.8	Similar
Nashua ASC	97.2	96.1 , 98.1	99.1	98.2 , 99.6	Lower
Northeast Surgical Care	100.0	99.7 , -	100.0	99.7 , -	Similar
Orthopaedic Surgery Center, Concord	96.2	95.4 , 96.9	96.5	95.7 , 97.2	Similar
Orthopaedic Surgery Center, Derry	98.9	97.8 , 99.6	97.3	95.7 , 98.4	Similar
Parkland Endoscopy	†	†	79.2	59.7 , 91.9	N/A
Portsmouth ASC	99.6	98.8 , 99.9	99.7	99.0 , -	Similar
Salem Surgery Center	-	-	99.5	98.6 , 99.9	N/A
Stratham ASC	98.0	96.0 , 99.1	96.9	94.8 , 98.3	Similar
Surgery Center of Greater Nashua	98.6	95.5 , 99.8	99.6	98.2 , -	Similar
<b>State Total</b>	98.5	98.3 , 98.7	98.4	98.2 , 98.6	Similar

† Data are not shown when fewer than 20 preoperative IV antibiotics were ordered.

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.

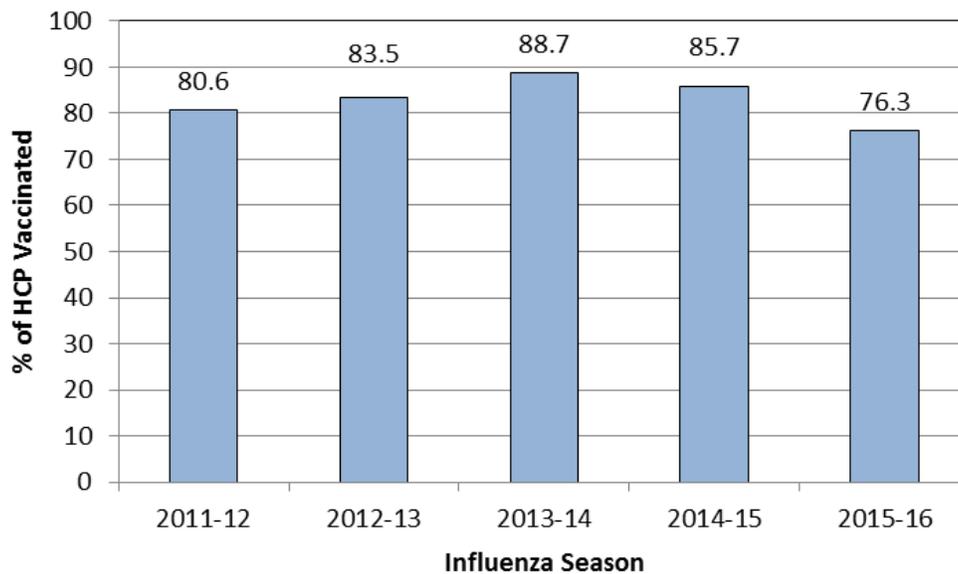
- Facility was either closed or did not perform any of these procedures during 2015.

### Influenza Vaccination Percentages

Figure 8 below depicts HCP influenza vaccination percentages since fall 2011. ASC coverage has varied since 2011-12 when these data were first reported to NH DHHS.

Table 14 below shows the total number of HCP and the number of HCP vaccinated against seasonal influenza at each ASC during the 2015-16 influenza season. Vaccination coverage by ASC ranged from 39.5% to 100.0%, and the overall State vaccination percentage was 76.3% (Figure 9). The analysis presented in Table 14 and Figure 9 shows that 13 ASC had vaccination percentages similar to the overall State vaccination percentage, eleven ASC reported vaccination percentages that were significantly higher than the overall State vaccination percentage, and four ASC reported vaccination percentages that were significantly lower than the overall State vaccination percentage.

**Figure 8. Statewide influenza vaccination percentages for ASC HCP by influenza season**



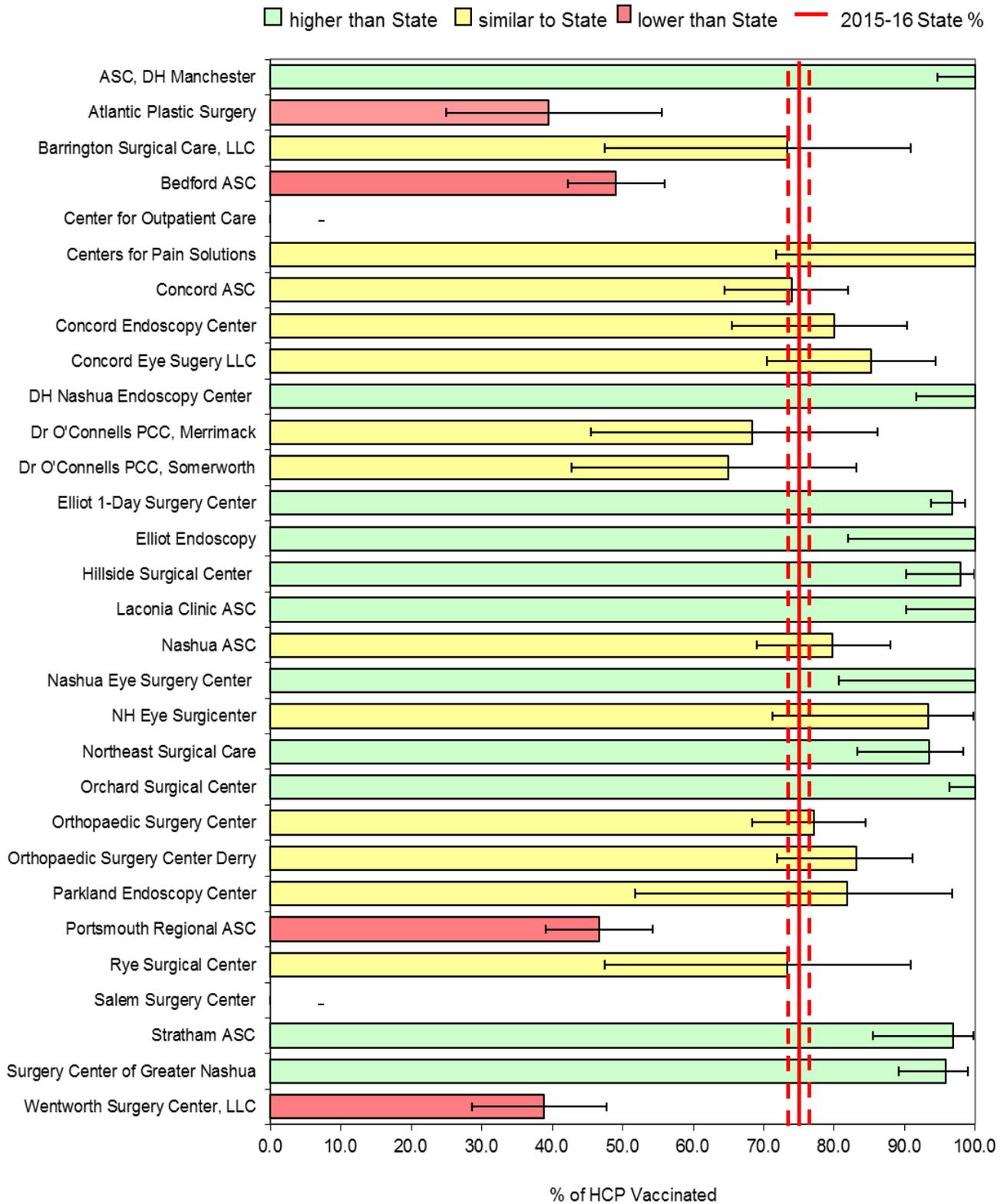
Note: Influenza season represents data for HCP between October 1st and March 31st the following calendar year.

**Table 14. Influenza vaccination percentages for hospital HCP by ASC, 2015–16 influenza season, Oct 1, 2015–Mar 31, 2016**

ASC	HCP Vaccinated	Total HCP	% HCP Vaccinated	95% Confidence Interval	ASC % Compared to State %
ASC, DH Manchester	54	54	100.0	94.6 , -	Higher
Atlantic Plastic Surgery	15	38	39.5	25.0 , 55.5	Lower
Barrington Surgical Care, LLC	11	15	73.3	47.5 , 90.9	Similar
Bedford ASC	99	202	49.0	42.2 , 55.9	Lower
Center for Outpatient Care	-	-	-	-	-
Centers for Pain Solutions	9	9	100.0	71.7 , -	Similar
Concord ASC	71	96	74.0	64.5 , 82.0	Similar
Concord Endoscopy Center	32	40	80.0	65.5 , 90.3	Similar
Concord Eye Surgery LLC	29	34	85.3	70.4 , 94.4	Similar
DH Nashua Endoscopy Center	34	34	100.0	91.6 , -	Higher
Dr O'Connells PCC, Merrimack	13	19	68.4	45.5 , 86.1	Similar
Dr O'Connells PCC, Somersworth	13	20	65.0	42.7 , 83.2	Similar
Elliot 1-Day Surgery Center	209	216	96.8	93.7 , 98.6	Higher
Elliot Endoscopy	15	15	100.0	81.9 , -	Higher
Hillside Surgical Center	47	48	97.9	90.2 , 99.9	Higher
Laconia Clinic ASC	29	29	100.0	90.2 , -	Higher
Nashua ASC	55	69	79.7	69.0 , 88.0	Similar
Nashua Eye Surgery Center	14	14	100.0	80.7 , -	Higher
NH Eye Surgicenter	14	15	93.3	71.3 , 99.7	Similar
Northeast Surgical Care	43	46	93.5	83.3 , 98.3	Higher
Orchard Surgical Center	80	80	100.0	96.3 , -	Higher
Orthopaedic Surgery Center	81	105	77.1	68.4 , 84.4	Similar
Orthopaedic Surgery Center, Derry	49	59	83.1	71.9 , 91.1	Similar
Parkland Endoscopy Center	9	11	81.8	51.7 , 96.8	Similar
Portsmouth Regional ASC	76	163	46.6	39.1 , 54.3	Lower
Rye Surgical Center	11	15	73.3	47.5 , 90.9	Similar
Salem Surgery Center	-	-	-	-	-
Stratham ASC	31	32	96.9	85.5 , 99.8	Higher
Surgery Center of Greater Nashua	70	73	95.9	89.2 , 98.9	Higher
Wentworth Surgery Center, LLC	31	80	38.8	28.6 , 47.7	Lower
<b>State Total</b>	1,244	1631	76.3	74.2 , 78.3	

-Facility closed or data unavailable during this influenza season

**Figure 9. Influenza vaccination percentages for HCP by ASC, 2015-16 influenza season**

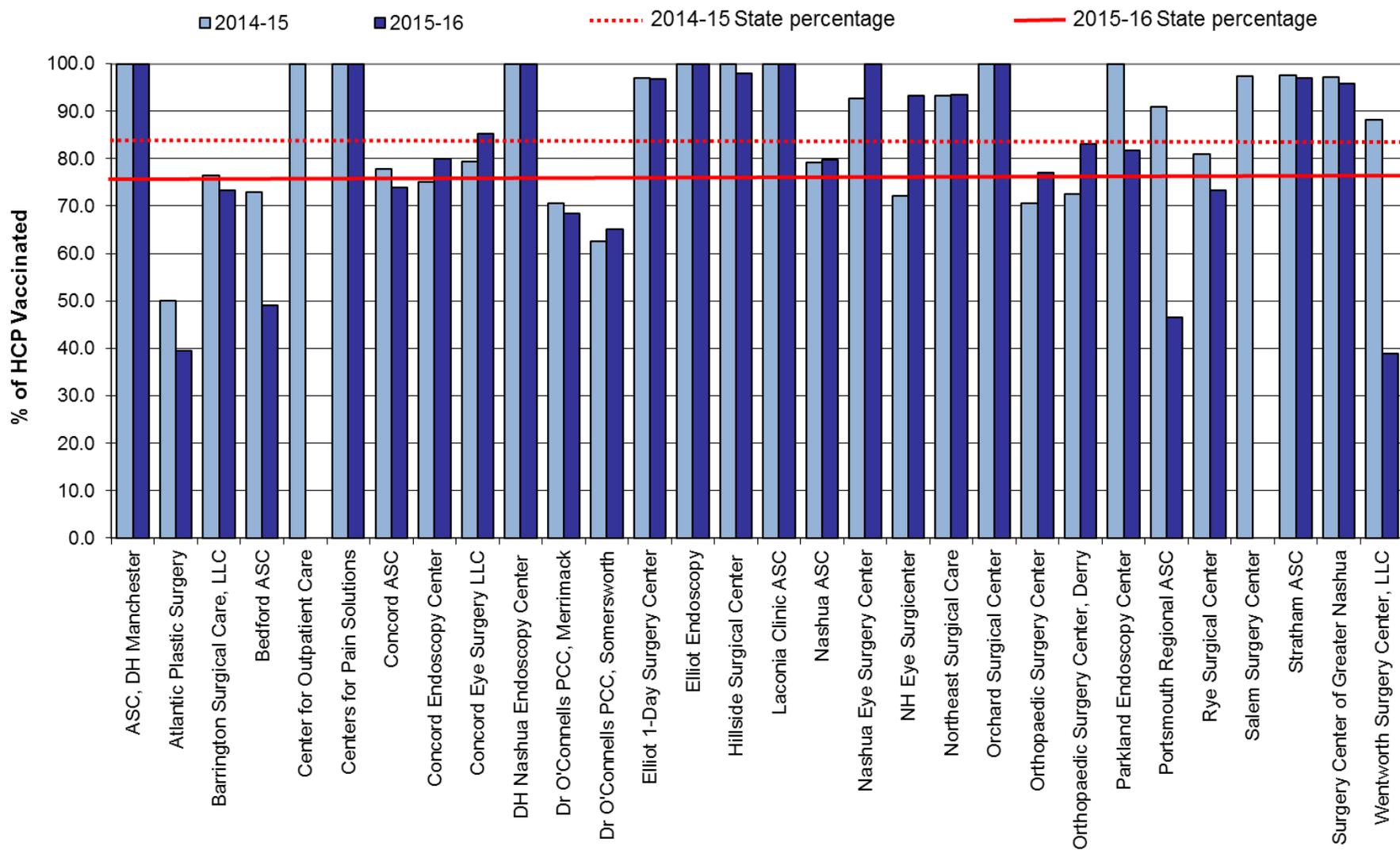


-Facility closed or data unavailable during this influenza season

### **Influenza Vaccination Percentages: Comparison to 2014-15 Data**

The overall statewide ASC HCP vaccination percentage decreased significantly between the 2014-15 and 2015-16 influenza seasons (see Figure 10). The analysis presented in Table 15 shows that, overall, 25 ASC had similar HCP influenza vaccination in the 2015-16 influenza season compared to the 2014-15 influenza season. Three ASC had lower HCP influenza vaccination in the 2015-16 influenza season compared to the 2014-15 influenza season.

**Figure 10. Influenza vaccination percentages for healthcare personnel by ASC, 2014-15 and 2015-2016 influenza season**



**Table 15. Influenza vaccination percentages for ASC HCP by ASC, comparison between 2014-15 and 2015-16 influenza seasons**

ASC	% HCP Vaccinated 2015-16	95% Confidence Interval 2015-16	% HCP Vaccinated 2014-15	95% Confidence Interval 2014-15	2015-16 Compared to 2014-15
ASC, DH Manchester	100.0	94.6 , -	100.0	93.7 , -	Similar
Atlantic Plastic Surgery	39.5	25.0 , -	50.0	32.0 , 68.1	Similar
Barrington Surgical Care, LLC	73.3	47.5 , 90.9	76.5	52.5 , 92.0	Similar
Bedford ASC	49.0	42.2 , 55.9	73.0	66.5 , 78.8	Lower
Center for Outpatient Care	-	-	100.0	89.9 , -	N/A
Centers for Pain Solutions	100.0	71.7 , -	100.0	76.2 , -	Similar
Concord ASC	74.0	64.5 , 82.0	77.9	69.2 , 85.1	Similar
Concord Endoscopy Center	80.0	65.5 , 90.3	75.0	61.4 , 85.7	Similar
Concord Eye Surgery LLC	85.3	70.4 , 94.4	79.3	61.9 , 91.2	Similar
DH Nashua Endoscopy Center	100.0	91.6 , -	100.0	91.8 , -	Similar
Dr O'Connells PCC, Merrimack	68.4	45.5 , 86.1	70.6	46.3 , 88.3	Similar
Dr O'Connells PCC, Somersworth	65.0	42.7 , 83.2	62.5	37.6 , 83.2	Similar
Elliot 1-Day Surgery Center	96.8	93.7 , 98.6	96.9	93.7 , 98.8	Similar
Elliot Endoscopy	100.0	81.9 , -	100.0	83.8 , -	Similar
Hillside Surgical Center	97.9	90.2 , 99.9	100.0	93.7 , -	Similar
Laconia Clinic ASC	100.0	90.2 , -	100.0	91.1 , -	Similar
Nashua ASC	79.7	69.0 , 88.0	79.1	69.5 , 86.7	Similar
Nashua Eye Surgery Center	100.0	80.7 , -	92.7	81.4 , 98.1	Similar
NH Eye Surgicenter	93.3	71.3 , 99.7	72.2	48.7 , 89.0	Similar
Northeast Surgical Care	93.5	83.3 , 98.3	93.2	84.5 , 97.8	Similar
Orchard Surgical Center	100.0	96.3 , -	100.0	74.1 , -	Similar
Orthopaedic Surgery Center	77.1	68.4 , 84.4	70.6	61.2 , 78.8	Similar
Orthopaedic Surgery Center, Derry	83.1	71.9 , 91.1	72.6	60.5 , 82.6	Similar
Parkland Endoscopy Center	81.8	51.7 , 96.8	100.0	77.9 , -	Similar
Portsmouth Regional ASC	46.6	39.1 , 54.3	91.0	84.1 , 95.5	Lower
Rye Surgical Center	73.3	47.5 , 90.9	81.0	60.2 , 93.6	Similar
Salem Surgery Center	-	-	97.3	91.2 , 99.5	N/A
Stratham ASC	96.9	85.5 , 99.8	97.6	88.6 , 99.9	Similar
Surgery Center of Greater Nashua	95.9	89.2 , 98.9	97.2	91.1 , 99.5	Similar
Wentworth Surgery Center, LLC	38.8	28.6 , 47.7	88.2	66.3 , 98.0	Lower
<b>State Total</b>	76.3	74.2 , 78.3	85.7	83.9 , 87.3	Lower

- Facility closed or data unavailable during this influenza season

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 2015-16 influenza season, 13 (46.4%) of 28 ASC had a HCP vaccination policy in place, 4 (14.3%) did not have one in place but were considering one, and 11 (39.3%) did not have one in place and were not considering one (Table 16). Among the 13 ASC with a policy, two (15.4%) allowed for only medical exemptions, four (30.8%) allowed for only medical and religious exemptions, six (46.2%) allowed for medical, religious, and personal/philosophical exemptions, and one (7.7%) allowed only personal/philosophical exemptions. All thirteen (100%) ASC required unvaccinated HCP with an approved exemption to wear a mask, and seven (53.8%) stated that unvaccinated HCP without an acceptable reason for exemption would be subject to progressive discipline, potentially including termination. ASC with vaccination policies had significantly higher percentages of influenza vaccination as a whole (81.7%) than ASC without policies (70.8%). ASC that utilized progressive discipline, potentially including termination, as a consequence for their unvaccinated HCP without an acceptable reason for exemption had a higher vaccination percentage (97.8%) than ASC that did not (70.4%); this difference was statistically significant.

**Figure 11. Influenza vaccination percentages for ASC with and without vaccination policies, 2015-16 influenza season**



**Table 16. Influenza vaccination policies and consequences for HCP by ASC, 2015-16 influenza season**

ASC	Exemptions Allowed in Policy*	Requirements for Unvaccinated HCP with Accepted Exemption	Consequences for Unvaccinated HCP without Accepted Exemption
ASC, DH Manchester	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
Center for Outpatient Care Exeter	Medical, Personal/philosophical, Other	Wear a mask, Receive verbal and/or written education	Wear a mask, Progressive discipline, potentially including termination
DH Nashua Endoscopy Center	Medical	Wear a mask, Receive verbal and/or written education	Progressive discipline, potentially including termination
Elliot 1-Day Surgery Center	Medical, Religious	Wear a mask	Progressive discipline, potentially including termination
Elliot Endoscopy at Rivers Edge	Medical, Religious	Wear a mask	Progressive discipline, potentially including termination
Hillside Surgery Center	Medical, Religious, Personal/philosophical	Wear a mask, Receive verbal and/or written education, Other (signed declination)	Wear a mask, Receive verbal and/or written education
Laconia Clinic ASC	Medical, Religious, Personal/philosophical	Wear a mask, Receive verbal and/or written education	Wear a mask, Receive verbal and/or written education
Nashua Eye Surgery Center	Medical, Religious	Wear a mask	Wear a mask, Progressive discipline, potentially including termination, Receive verbal and/or written education
Orchard Surgical Center	Medical, Religious, Personal/philosophical	Wear a mask	Wear a mask
Parkland Endoscopy Center	Medical, Religious, Personal/philosophical	Wear a mask	Wear a mask, Progressive discipline, potentially including termination, Receive verbal and/or written education
Portsmouth ASC	Medical, Religious, Personal/philosophical	Wear a mask	Wear a mask, Receive verbal and/or written education
Surgery Center of Greater Nashua	Medical, Religious, Personal/philosophical	Wear a mask	Wear a mask
Wentworth Surgery Center, LLC	Personal/philosophical	Receive verbal and/or written education	Receive verbal and/or written education

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

Note: Four ASC (Centers for Pain Solutions, Concord Ambulatory Surgery Center, LLC, Dr. O’Connell’s PainCare - Merrimack, and Stratham Ambulatory Surgery Center) did not have mandatory vaccination policies during the 2015-16 influenza season, but were considering one at the time of the survey. Thirteen ASC (Atlantic Plastic Surgery, Barrington Surgical Care, LLC, Bedford Ambulatory Surgery, Concord Endoscopy Center, Concord Eye Surgery, Dr. O’Connells PCC-Somersworth, Nashua ASC, Nashua Eye Surgery Center, NH Eye Surgicenter, Northeast Surgery Center, Orthopaedic Surgery Center, Orthopaedic Surgery Center Derry, and Rye Surgical Center) did not have mandatory vaccination policies during 2015-16 influenza season, and were not considering one at the time of the survey.

## **IV. CONCLUSIONS**

This fourth report of ASC HAI data is an important part of continuing 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.

Key findings described in this report include the following:

- All licensed ASC in NH complied with the HAI mandatory reporting law in 2015.
- NH ASC reported similar infection rates following selected surgeries (breast, hernia, and open reduction of fracture procedures) as predicted based on national data.
- All of the 15 ASC reporting SSI with sufficiently robust data to present have rates that are similar to national data. Even though the rates are similar, ASC can work towards the goal of zero infections.
- The percentage of orders for surgical IV antibiotic prophylaxis administered for the prevention of SSI that were delivered within the appropriate timeframe prior to surgery was 98.5%. Two ASC had a significantly higher adherence rate for this measure than the State adherence percentage, with rates ranging from 96.2% to 100%.
- Vaccination coverage by ASC during the 2015-16 influenza season ranged from 38.8% to 100.0%. The overall State percentage was 76.3%, which is statistically lower to the 2014-15 influenza season when the statewide vaccination rate was 85.7%.
- Thirteen NH ASC had mandatory influenza vaccination policies for HCP during the 2015-16 season. Overall, ASC with vaccination policies had significantly higher percentage of influenza vaccination as a whole (81.7%) than ASC without mandatory policies (70.8%).

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 ASC. Although data in this report have not been independently validated to assess reporting accuracy, the data will be externally validated in the future.

Healthcare consumers can discuss the information provided in this report with their healthcare provider and should review Appendix 4 on what patients can do to prevent HAI.

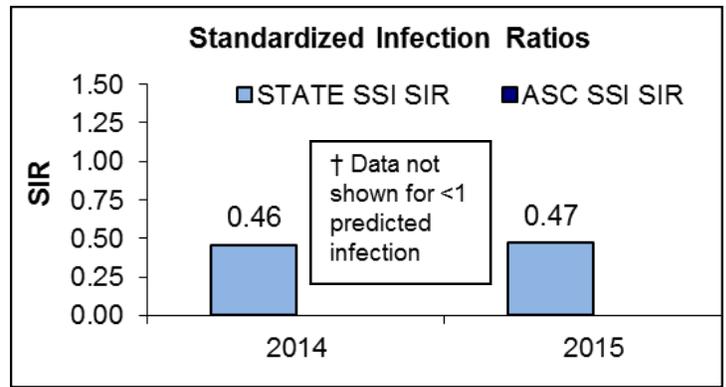
## **V. AMBULATORY SURGERY CENTER INDIVIDUAL REPORTS**

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 ASC for which facility-specific infections data for specific measures cannot be presented. See technical notes for additional information on data restriction and presentation.



**ASC, DH MANCHESTER**  
 Manchester, NH  
 Not-for-profit  
 Free-standing  
 # of Procedures: 3,800

**2015 HAI ASC DATA REPORT**



**STANDARDIZED INFECTION RATIOS (SIR)**

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall SSI	Facility did not perform any of these procedures in 2015				

**PROCEDURE-SPECIFIC RATES BY RISK CATEGORY**

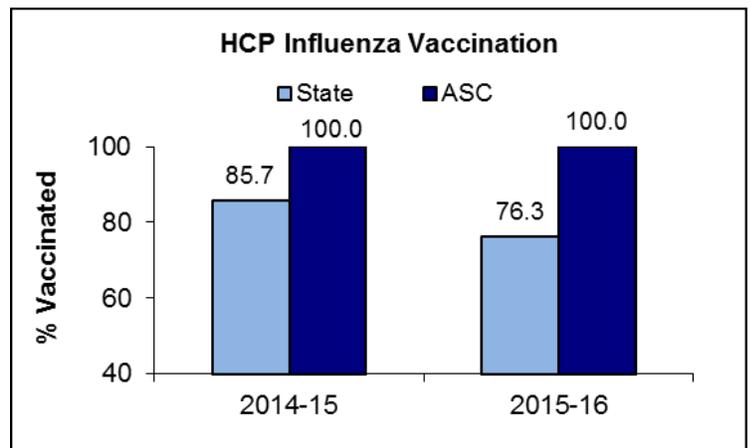
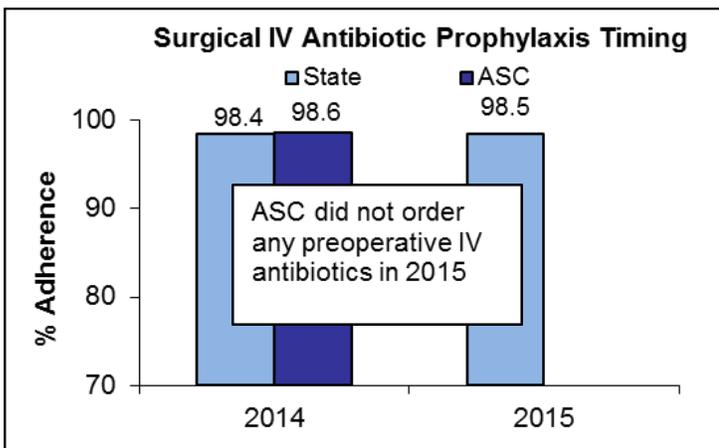
Risk Category	Infections	Procedures	ASC Rate	National Rate	P-Value	ASC Rate Compared to National Rate
<b>Breast Procedures (BRST)</b>						
Risk Category 0	-	-	-	-	-	-
Risk Category 1, 2, 3	-	-	-	-	-	-
<b>Hernia Procedures (HER)</b>						
Risk Category 0, 1	-	-	-	-	-	-
Risk Category 2, 3	-	-	-	-	-	-
<b>Open Reduction of Fracture Procedures (FX)</b>						
Risk Category 0, 1, 2, 3	-	-	-	-	-	-

†Data are not shown when fewer than 20 procedures were performed - Facility did not perform any procedures in this category in 2015

**PROCESS MEASURES**

Measure	Percent Adherence	State Percentage	Comparison to State Percentage
IV Antibiotic Prophylaxis Timing	-	98.5	-
	Percent Vaccinated	State Percentage	Comparison to State Percentage
HCP Influenza Vaccination	100.0	76.3	Higher

†Data are not shown when fewer than 20 orders of IV prophylaxis were made in 2015 - Facility did not provide IV prophylaxis in 2015



ASC: Ambulatory surgery center IV: Intravenous SSI: Surgical site infection  
 BRST: Breast procedures HER: Hernia procedures FX: Open reduction of fracture procedures



# ATLANTIC PLASTIC SURGERY

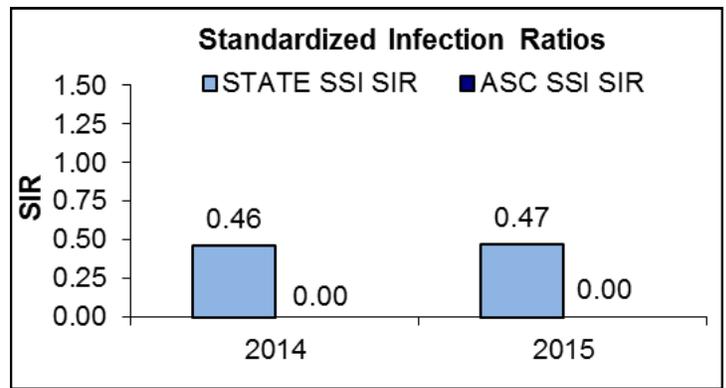
Portsmouth, NH

For-profit

Free-standing

# of Procedures: 1,319

## 2015 HAI ASC DATA REPORT



### STANDARDIZED INFECTION RATIOS (SIR)

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall SSI	0	1.08	0.00	-, 3.41	Similar

### PROCEDURE-SPECIFIC RATES BY RISK CATEGORY

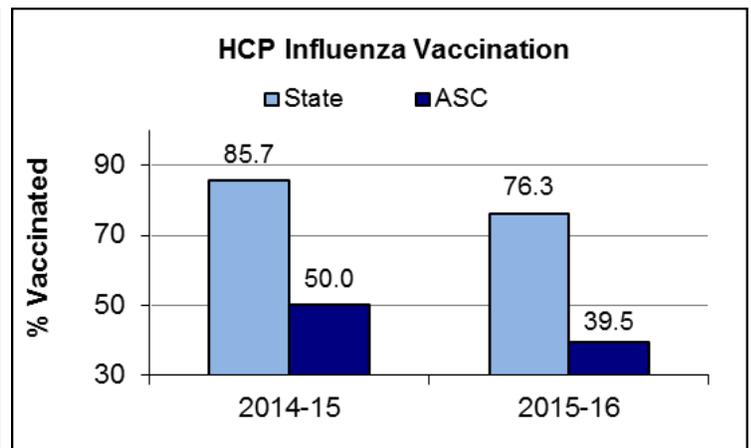
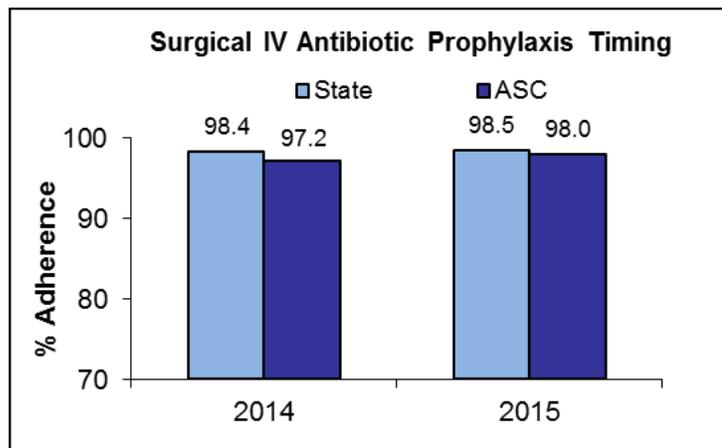
Risk Category	Infections	Procedures	ASC Rate	National Rate	P-Value	ASC Rate Compared to National Rate
Breast Procedures (BRST)						
Risk Category 0	0	184	0.00	0.32	0.587	Similar
Risk Category 1, 2, 3	0	46	0.00	1.06	0.625	Similar
Hernia Procedures (HER)						
Risk Category 0, 1	-	-	-	-	-	-
Risk Category 2, 3	-	-	-	-	-	-
Open Reduction of Fracture Procedures (FX)						
Risk Category 0, 1, 2, 3	-	-	-	-	-	-

†Data are not shown when fewer than 20 procedures were performed - Facility did not perform any procedures in this category in 2015

### PROCESS MEASURES

Measure	Percent Adherence	State Percentage	Comparison to State Percentage
IV Antibiotic Prophylaxis Timing	98.0	98.5	Similar
	Percent Vaccinated	State Percentage	Comparison to State Percentage
HCP Influenza Vaccination	39.5	76.3	Similar

†Data are not shown when fewer than 20 orders of IV prophylaxis were made in 2015 - Facility did not provide IV prophylaxis in 2015



ASC: Ambulatory surgery center IV: Intravenous SSI: Surgical site infection

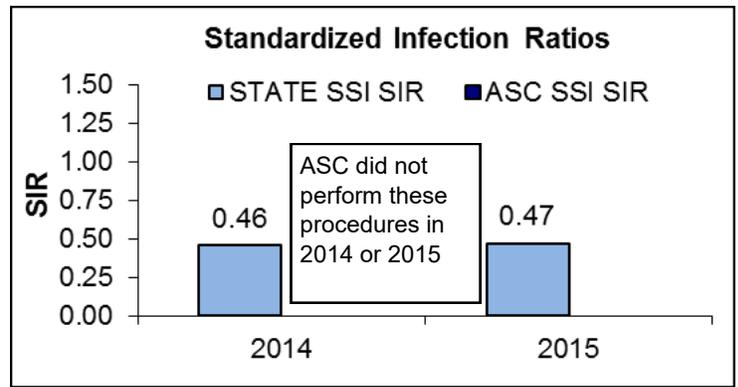
BRST: Breast procedures HER: Hernia procedures FX: Open reduction of fracture procedures



# BARRINGTON SURGICAL CARE

Barrington, NH  
Private  
Free-standing  
# of Procedures: 1,767

## 2015 HAI ASC DATA REPORT



### STANDARDIZED INFECTION RATIOS (SIR)

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall SSI	Facility did not perform any of these procedures in 2015				

### PROCEDURE-SPECIFIC RATES BY RISK CATEGORY

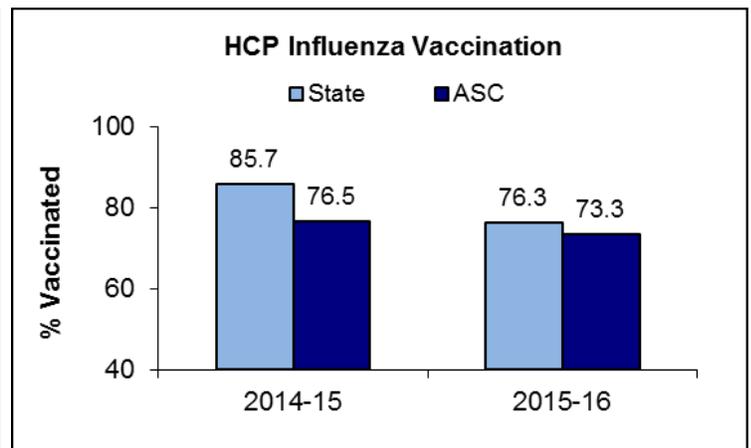
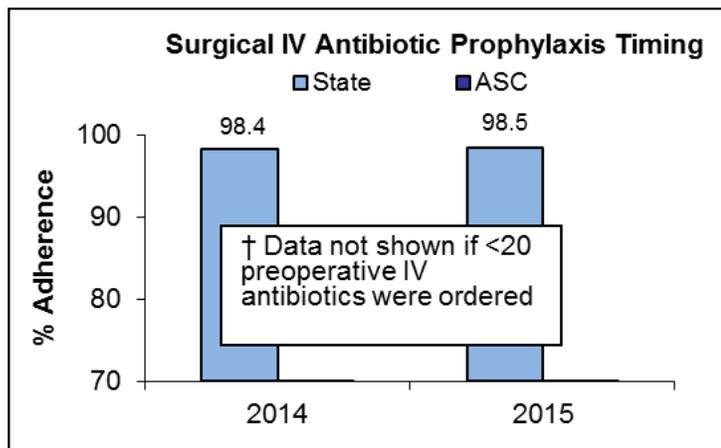
Risk Category	Infections	Procedures	ASC Rate	National Rate	P-Value	ASC Rate Compared to National Rate
Breast Procedures (BRST)						
Risk Category 0	-	-	-	-	-	-
Risk Category 1, 2, 3	-	-	-	-	-	-
Hernia Procedures (HER)						
Risk Category 0, 1	-	-	-	-	-	-
Risk Category 2, 3	-	-	-	-	-	-
Open Reduction of Fracture Procedures (FX)						
Risk Category 0, 1, 2, 3	-	-	-	-	-	-

†Data are not shown when fewer than 20 procedures were performed - Facility did not perform any procedures in this category in 2015

### PROCESS MEASURES

Measure	Percent Adherence	State Percentage	Comparison to State Percentage
IV Antibiotic Prophylaxis Timing	†	98.5	†
	Percent Vaccinated	State Percentage	Comparison to State Percentage
HCP Influenza Vaccination	73.3	76.3	Similar

†Data are not shown when fewer than 20 orders of IV prophylaxis were made in 2015 - Facility did not provide IV prophylaxis in 2015

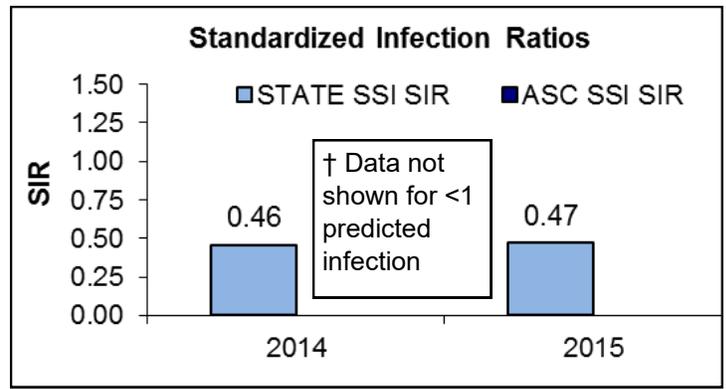


ASC: Ambulatory surgery center IV: Intravenous SSI: Surgical site infection  
BRST: Breast procedures HER: Hernia procedures FX: Open reduction of fracture procedures



**BEDFORD ASC**  
 Bedford, NH  
 Physician-owned  
 Free-standing  
 # of Procedures: 7,084

**2015 HAI ASC DATA REPORT**



**STANDARDIZED INFECTION RATIOS (SIR)**

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall SSI	†	†	†	†	†

**PROCEDURE-SPECIFIC RATES BY RISK CATEGORY**

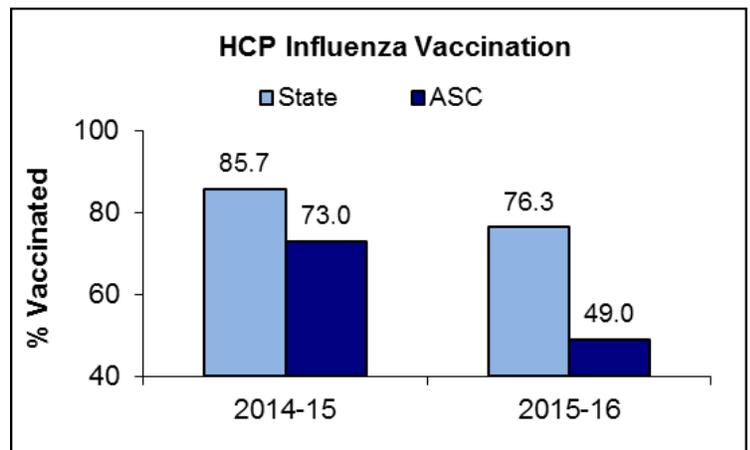
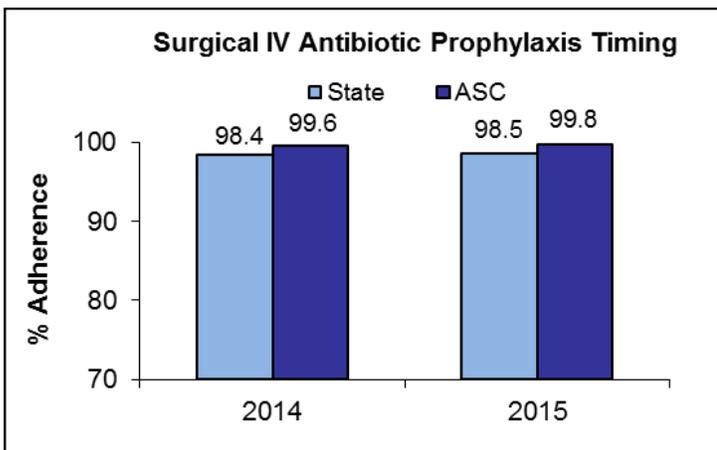
Risk Category	Infections	Procedures	ASC Rate	National Rate	P-Value	ASC Rate Compared to National Rate
Breast Procedures (BRST)						
Risk Category 0	0	130	0.00	0.32	0.680	Similar
Risk Category 1, 2, 3	†	†	†	†	†	†
Hernia Procedures (HER)						
Risk Category 0, 1	0	33	0.00	0.46	0.861	Similar
Risk Category 2, 3	-	-	-	-	-	-
Open Reduction of Fracture Procedures (FX)						
Risk Category 0, 1, 2, 3	0	55	0.00	0.28	0.863	Similar

†Data are not shown when fewer than 20 procedures were performed - Facility did not perform any procedures in this category in 2015

**PROCESS MEASURES**

Measure	Percent Adherence	State Percentage	Comparison to State Percentage
IV Antibiotic Prophylaxis Timing	99.8	98.5	Higher
	Percent Vaccinated	State Percentage	Comparison to State Percentage
HCP Influenza Vaccination	49.0	76.3	Lower

†Data are not shown when fewer than 20 orders of IV prophylaxis were made in 2015 - Facility did not provide IV prophylaxis in 2015



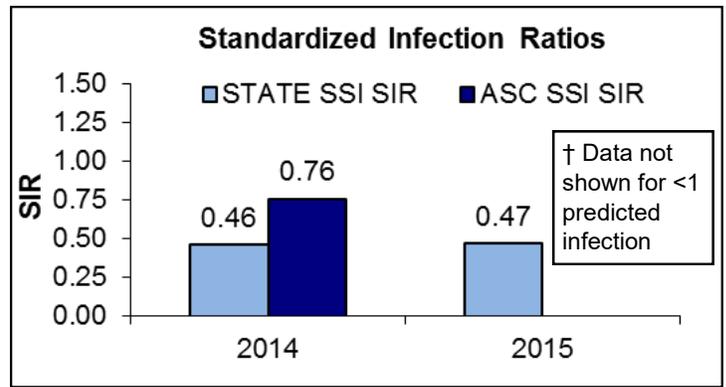
ASC: Ambulatory surgery center IV: Intravenous SSI: Surgical site infection  
 BRST: Breast procedures HER: Hernia procedures FX: Open reduction of fracture procedures



# CENTER FOR OUTPATIENT CARE

Exeter, NH  
 Not-for-profit  
 Within a hospital  
 # of Procedures: 2,728 in 2014

## 2015 HAI ASC DATA REPORT



### STANDARDIZED INFECTION RATIOS (SIR)

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall SSI	†	†	†	†	†

### PROCEDURE-SPECIFIC RATES BY RISK CATEGORY

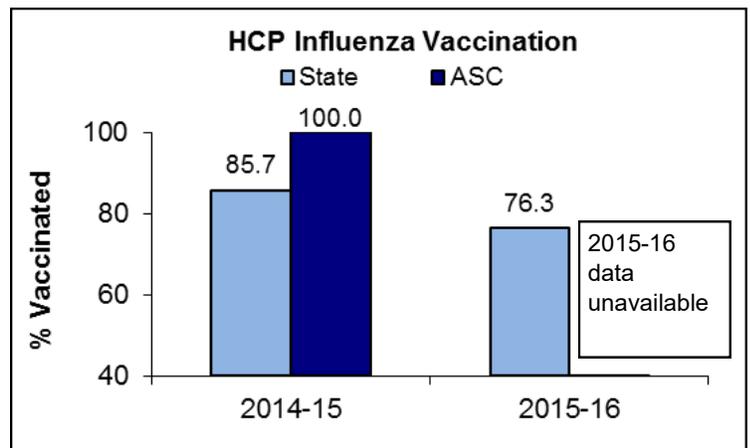
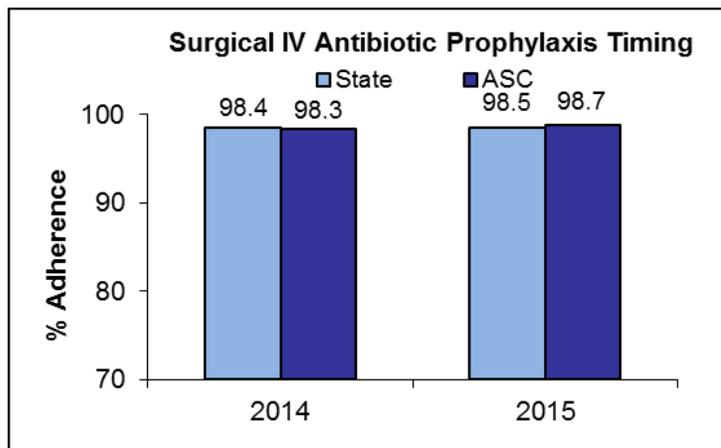
Risk Category	Infections	Procedures	ASC Rate	National Rate	P-Value	ASC Rate Compared to National Rate
Breast Procedures (BRST)						
Risk Category 0	0	46	0.00	0.32	0.867	Similar
Risk Category 1, 2, 3	0	23	0.00	1.06	0.788	Similar
Hernia Procedures (HER)						
Risk Category 0, 1	0	32	0.00	0.46	0.865	Similar
Risk Category 2, 3	†	†	†	†	†	†
Open Reduction of Fracture Procedures (FX)						
Risk Category 0, 1, 2, 3	0	22	0.00	0.28	0.941	Similar

†Data are not shown when fewer than 20 procedures were performed - Facility did not perform any procedures in this category in 2015

### PROCESS MEASURES

Measure	Percent Adherence	State Percentage	Comparison to State Percentage
IV Antibiotic Prophylaxis Timing	98.7	98.5	Similar
	Percent Vaccinated	State Percentage	Comparison to State Percentage
HCP Influenza Vaccination	Unavailable	76.3	N/A

†Data are not shown when fewer than 20 orders of IV prophylaxis were made in 2015 - Facility did not provide IV prophylaxis in 2015



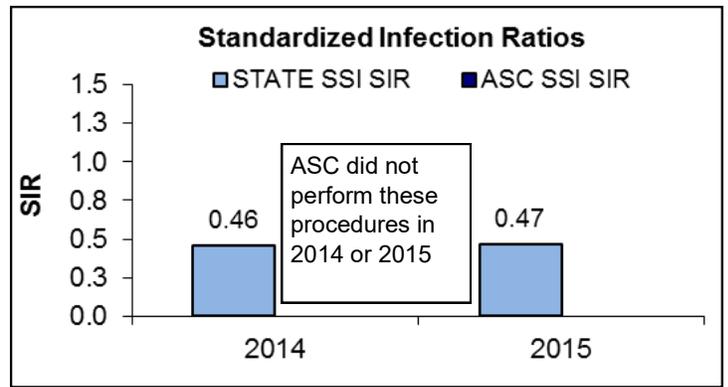
ASC: Ambulatory surgery center IV: Intravenous SSI: Surgical site infection

BRST: Breast procedures HER: Hernia procedures FX: Open reduction of fracture procedures



**CENTER FOR PAIN SOLUTIONS**  
 Nashua, NH  
 Physician-owned  
 Free-standing  
 # of Procedures: 3,168

**2015 HAI ASC DATA REPORT**



**STANDARDIZED INFECTION RATIOS (SIR)**

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall SSI	Facility did not perform any of these procedures in 2015				

**PROCEDURE-SPECIFIC RATES BY RISK CATEGORY**

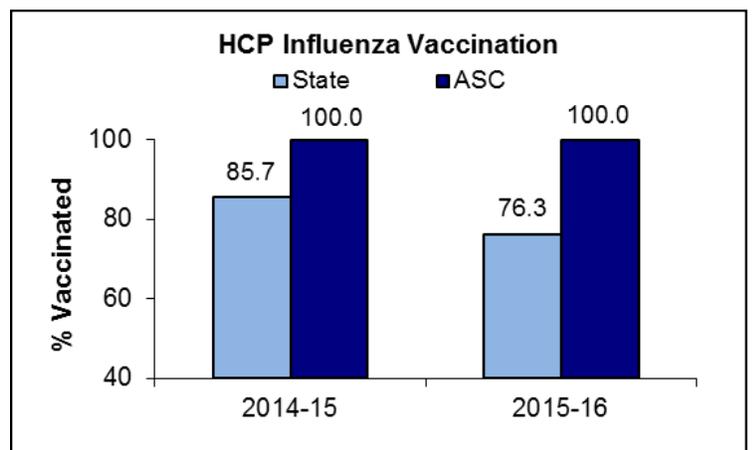
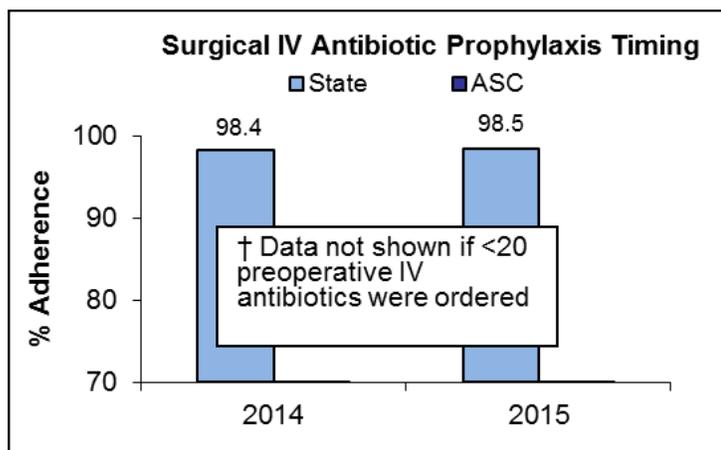
Risk Category	Infections	Procedures	ASC Rate	National Rate	P-Value	ASC Rate Compared to National Rate
<b>Breast Procedures (BRST)</b>						
Risk Category 0	-	-	-	-	-	-
Risk Category 1, 2, 3	-	-	-	-	-	-
<b>Hernia Procedures (HER)</b>						
Risk Category 0, 1	-	-	-	-	-	-
Risk Category 2, 3	-	-	-	-	-	-
<b>Open Reduction of Fracture Procedures (FX)</b>						
Risk Category 0, 1, 2, 3	-	-	-	-	-	-

†Data are not shown when fewer than 20 procedures were performed - Facility did not perform any procedures in this category in 2015

**PROCESS MEASURES**

Measure	Percent Adherence	State Percentage	Comparison to State Percentage
IV Antibiotic Prophylaxis Timing	†	98.5	†
	Percent Vaccinated	State Percentage	Comparison to State Percentage
HCP Influenza Vaccination	100.0	76.3	Similar

†Data are not shown when fewer than 20 orders of IV prophylaxis were made in 2015 - Facility did not provide IV prophylaxis in 2015

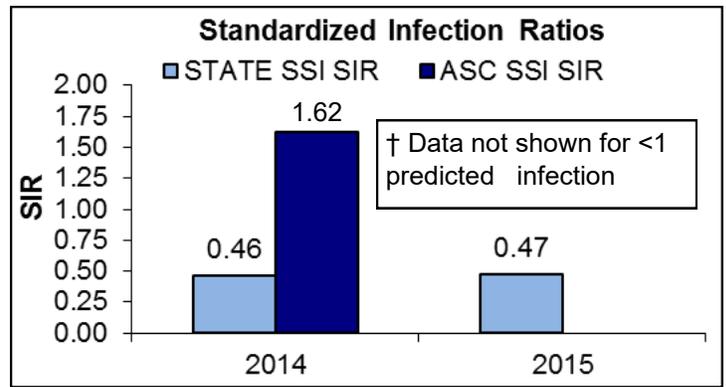


ASC: Ambulatory surgery center IV: Intravenous SSI: Surgical site infection  
 BRST: Breast procedures HER: Hernia procedures FX: Open reduction of fracture procedures



**CONCORD ASC**  
 Concord, NH  
 Not-for-profit  
 Free-standing  
 # of Procedures: 2,030

**2015 HAI ASC DATA REPORT**



**STANDARDIZED INFECTION RATIOS (SIR)**

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall SSI	†	†	†	†	†

**PROCEDURE-SPECIFIC RATES BY RISK CATEGORY**

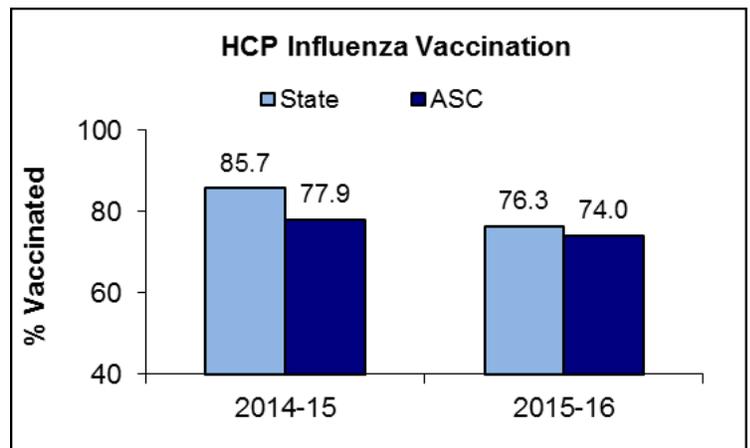
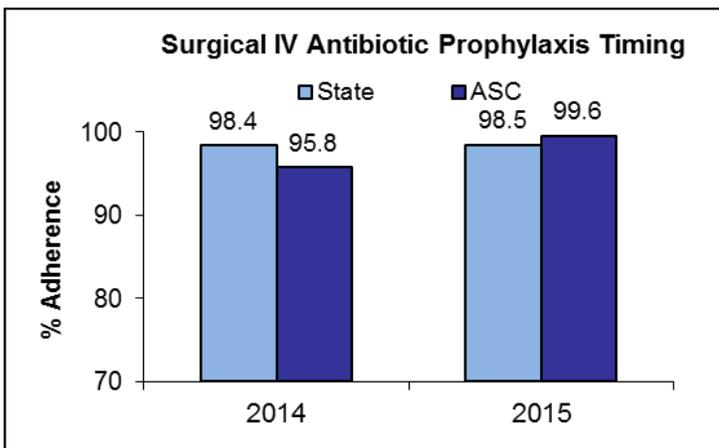
Risk Category	Infections	Procedures	ASC Rate	National Rate	P-Value	ASC Rate Compared to National Rate
Breast Procedures (BRST)						
Risk Category 0	0	141	0.00	0.32	0.659	Similar
Risk Category 1, 2, 3	1	21	4.76	1.06	0.254	Similar
Hernia Procedures (HER)						
Risk Category 0, 1	†	†	†	†	†	†
Risk Category 2, 3	†	†	†	†	†	†
Open Reduction of Fracture Procedures (FX)						
Risk Category 0, 1, 2, 3	-	-	-	-	-	-

†Data are not shown when fewer than 20 procedures were performed - Facility did not perform any procedures in this category in 2015

**PROCESS MEASURES**

Measure	Percent Adherence	State Percentage	Comparison to State Percentage
IV Antibiotic Prophylaxis Timing	99.6	98.5	Higher
	Percent Vaccinated	State Percentage	Comparison to State Percentage
HCP Influenza Vaccination	74.0	76.3	Similar

†Data are not shown when fewer than 20 orders of IV prophylaxis were made in 2015 - Facility did not provide IV prophylaxis in 2015



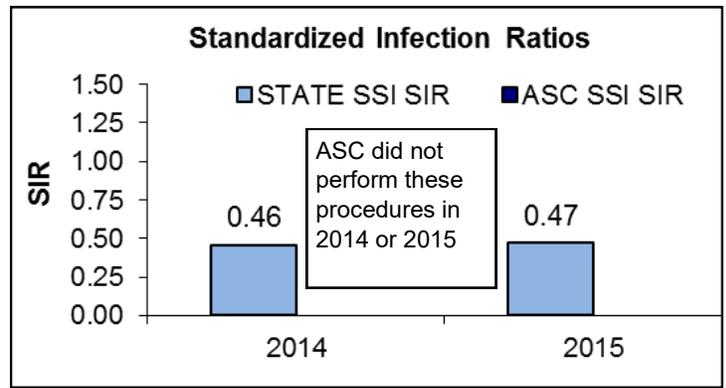
ASC: Ambulatory surgery center IV: Intravenous SSI: Surgical site infection  
 BRST: Breast procedures HER: Hernia procedures FX: Open reduction of fracture procedures



# CONCORD ENDOSCOPY

Concord, NH  
 Joint venture  
 Free-standing  
 # of Procedures: 6,227

## 2015 HAI ASC DATA REPORT



### STANDARDIZED INFECTION RATIOS (SIR)

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall SSI	Facility did not perform any of these procedures in 2015				

### PROCEDURE-SPECIFIC RATES BY RISK CATEGORY

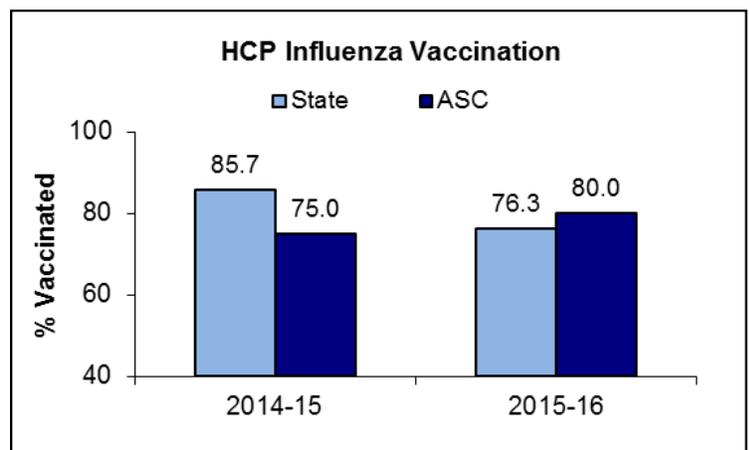
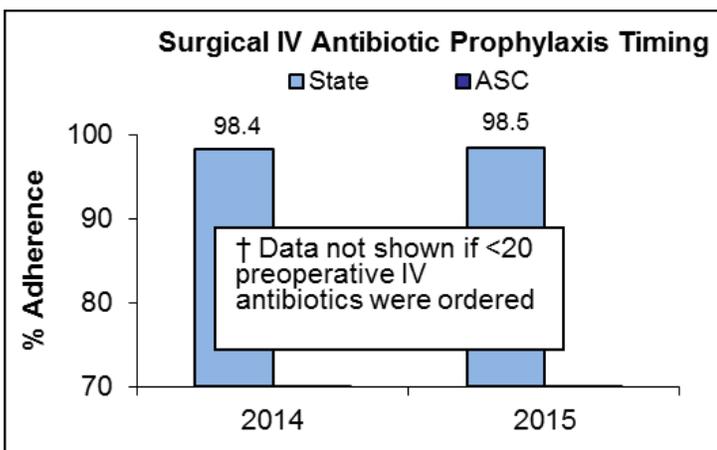
Risk Category	Infections	Procedures	ASC Rate	National Rate	P-Value	ASC Rate Compared to National Rate
Breast Procedures (BRST)						
Risk Category 0	-	-	-	-	-	-
Risk Category 1, 2, 3	-	-	-	-	-	-
Hernia Procedures (HER)						
Risk Category 0, 1	-	-	-	-	-	-
Risk Category 2, 3	-	-	-	-	-	-
Open Reduction of Fracture Procedures (FX)						
Risk Category 0, 1, 2, 3	-	-	-	-	-	-

†Data are not shown when fewer than 20 procedures were performed - Facility did not perform any procedures in this category in 2015

### PROCESS MEASURES

Measure	Percent Adherence	State Percentage	Comparison to State Percentage
IV Antibiotic Prophylaxis Timing	†	98.5	†
	Percent Vaccinated	State Percentage	Comparison to State Percentage
HCP Influenza Vaccination	80.0	76.3	Similar

†Data are not shown when fewer than 20 orders of IV prophylaxis were made in 2015 - Facility did not provide IV prophylaxis in 2015



ASC: Ambulatory surgery center IV: Intravenous SSI: Surgical site infection

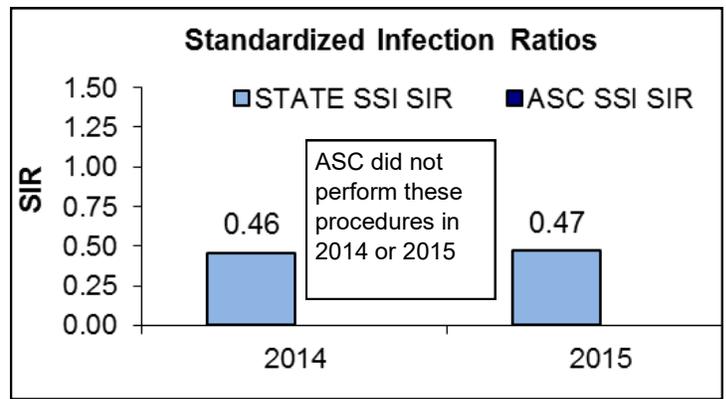
BRST: Breast procedures HER: Hernia procedures FX: Open reduction of fracture procedures



# CONCORD EYE SURGERY

Concord, NH  
 Medical group  
 Free-standing  
 # of Procedures: 1,684

## 2015 HAI ASC DATA REPORT



### STANDARDIZED INFECTION RATIOS (SIR)

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall SSI	Facility did not perform any of these procedures in 2015				

### PROCEDURE-SPECIFIC RATES BY RISK CATEGORY

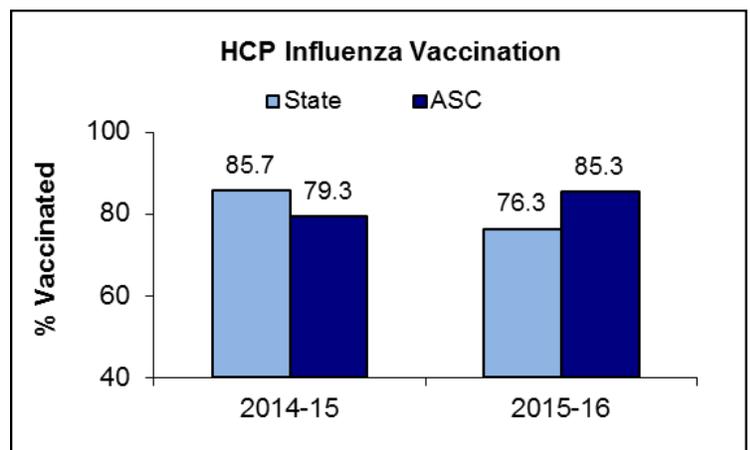
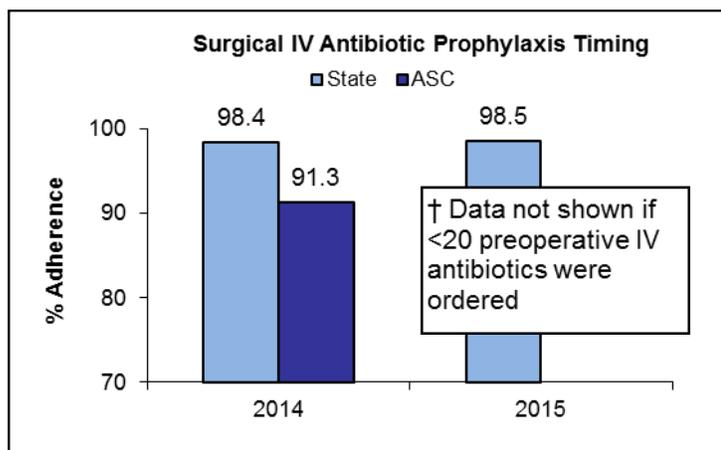
Risk Category	Infections	Procedures	ASC Rate	National Rate	P-Value	ASC Rate Compared to National Rate
Breast Procedures (BRST)						
Risk Category 0	-	-	-	-	-	-
Risk Category 1, 2, 3	-	-	-	-	-	-
Hernia Procedures (HER)						
Risk Category 0, 1	-	-	-	-	-	-
Risk Category 2, 3	-	-	-	-	-	-
Open Reduction of Fracture Procedures (FX)						
Risk Category 0, 1, 2, 3	-	-	-	-	-	-

†Data are not shown when fewer than 20 procedures were performed - Facility did not perform any procedures in this category in 2015

### PROCESS MEASURES

Measure	Percent Adherence	State Percentage	Comparison to State Percentage
IV Antibiotic Prophylaxis Timing	†	98.5	†
	Percent Vaccinated	State Percentage	Comparison to State Percentage
HCP Influenza Vaccination	85.3	76.3	Similar

†Data are not shown when fewer than 20 orders of IV prophylaxis were made in 2015 - Facility did not provide IV prophylaxis in 2015



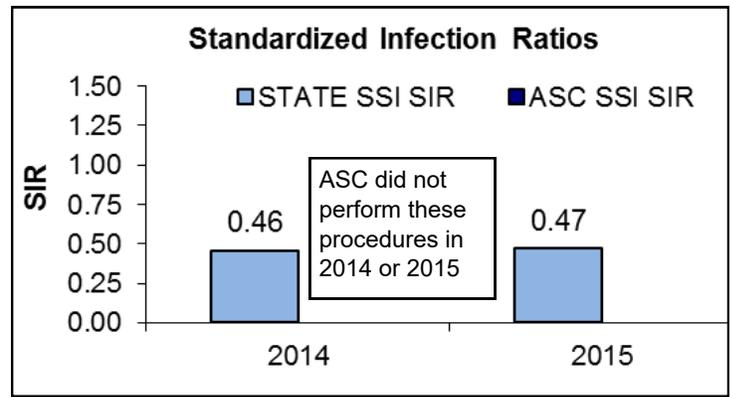
ASC: Ambulatory surgery center IV: Intravenous SSI: Surgical site infection  
 BRST: Breast procedures HER: Hernia procedures FX: Open reduction of fracture procedures



# DH, NASHUA ENDOSCOPY

Nashua, NH  
 Not-for-profit  
 Free-standing  
 # of Procedures: 4,738

## 2015 HAI ASC DATA REPORT



### STANDARDIZED INFECTION RATIOS (SIR)

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall SSI	Facility did not perform any of these procedures in 2015				

### PROCEDURE-SPECIFIC RATES BY RISK CATEGORY

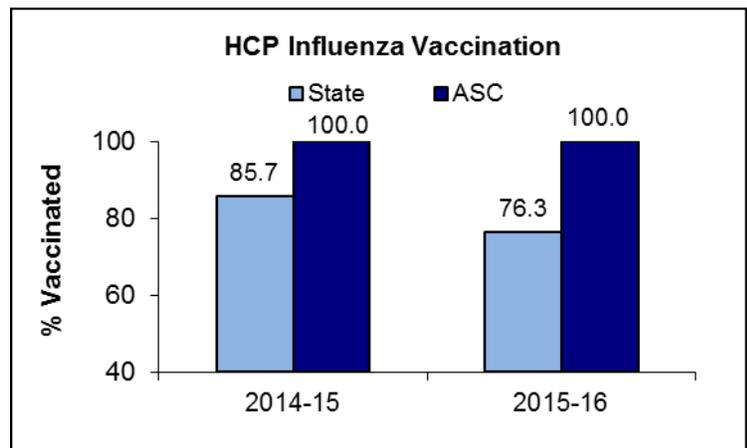
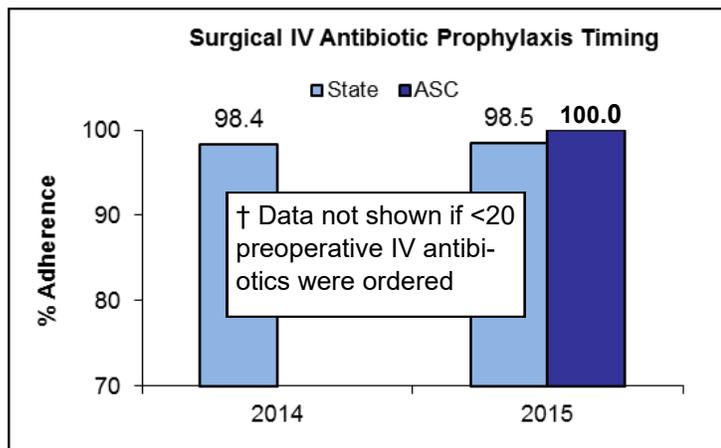
Risk Category	Infections	Procedures	ASC Rate	National Rate	P-Value	ASC Rate Compared to National Rate
Breast Procedures (BRST)						
Risk Category 0	-	-	-	-	-	-
Risk Category 1, 2, 3	-	-	-	-	-	-
Hernia Procedures (HER)						
Risk Category 0, 1	-	-	-	-	-	-
Risk Category 2, 3	-	-	-	-	-	-
Open Reduction of Fracture Procedures (FX)						
Risk Category 0, 1, 2, 3	-	-	-	-	-	-

†Data are not shown when fewer than 20 procedures were performed - Facility did not perform any procedures in this category for 2015

### PROCESS MEASURES

Measure	Percent Adherence	State Percentage	Comparison to State Percentage
IV Antibiotic Prophylaxis Timing	100.0	98.5	Similar
	Percent Vaccinated	State Percentage	Comparison to State Percentage
HCP Influenza Vaccination	100.0	76.3	Higher

†Data are not shown when fewer than 20 orders of IV prophylaxis were made in 2015 - Facility did not provide IV prophylaxis in 2015



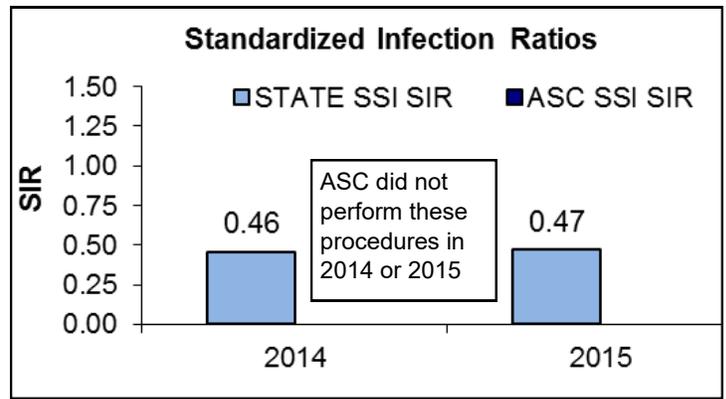
ASC: Ambulatory surgery center IV: Intravenous SSI: Surgical site infection  
 BRST: Breast procedures HER: Hernia procedures FX: Open reduction of fracture procedures



**DR. O'CONNELLS PAINCARE CENTERS, MERRIMACK**

Merrimack, NH  
 For-profit  
 Free-standing  
 # of Procedures: 1,014

**2015 HAI ASC DATA REPORT**



**STANDARDIZED INFECTION RATIOS (SIR)**

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall SSI	Facility did not perform any of these procedures in 2015				

**PROCEDURE-SPECIFIC RATES BY RISK CATEGORY**

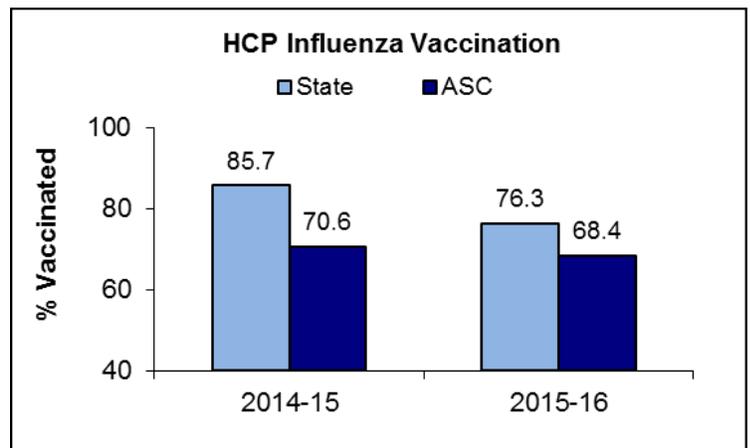
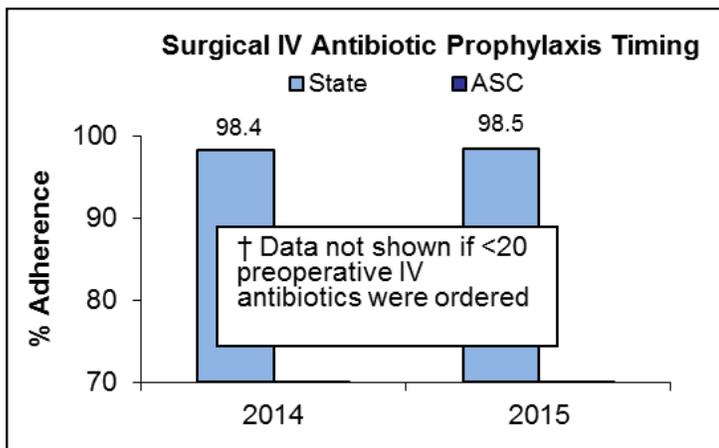
Risk Category	Infections	Procedures	ASC Rate	National Rate	P-Value	ASC Rate Compared to National Rate
<b>Breast Procedures (BRST)</b>						
Risk Category 0	-	-	-	-	-	-
Risk Category 1, 2, 3	-	-	-	-	-	-
<b>Hernia Procedures (HER)</b>						
Risk Category 0, 1	-	-	-	-	-	-
Risk Category 2, 3	-	-	-	-	-	-
<b>Open Reduction of Fracture Procedures (FX)</b>						
Risk Category 0, 1, 2, 3	-	-	-	-	-	-

†Data are not shown when fewer than 20 procedures were performed - Facility did not perform any procedures in this category in 2015

**PROCESS MEASURES**

Measure	Percent Adherence	State Percentage	Comparison to State Percentage
IV Antibiotic Prophylaxis Timing	†	98.5	†
	Percent Vaccinated	State Percentage	Comparison to State Percentage
HCP Influenza Vaccination	68.4	76.3	Similar

†Data are not shown when fewer than 20 orders of IV prophylaxis were made in 2015 - Facility did not provide IV prophylaxis in 2015



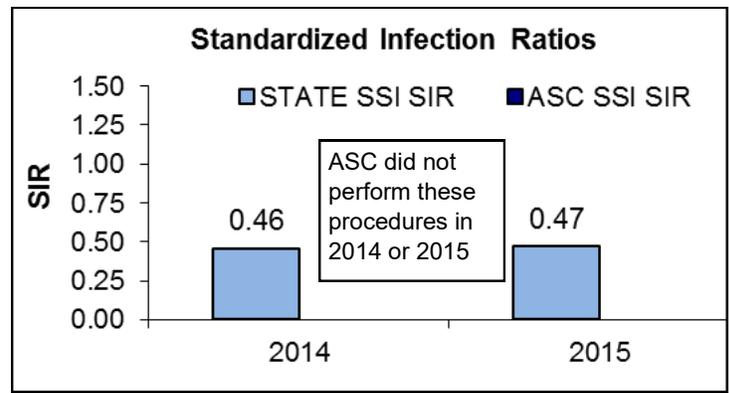
ASC: Ambulatory surgery center IV: Intravenous SSI: Surgical site infection  
 BRST: Breast procedures HER: Hernia procedures FX: Open reduction of fracture procedures



**DR. O'CONNELLS PAINCARE CENTERS, SOMERSWORTH**

Somersworth, NH  
 For-profit  
 Free-standing  
 # of Procedures: 772

**2015 HAI ASC DATA REPORT**



**STANDARDIZED INFECTION RATIOS (SIR)**

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall SSI	Facility did not perform any of these procedures in 2015				

**PROCEDURE-SPECIFIC RATES BY RISK CATEGORY**

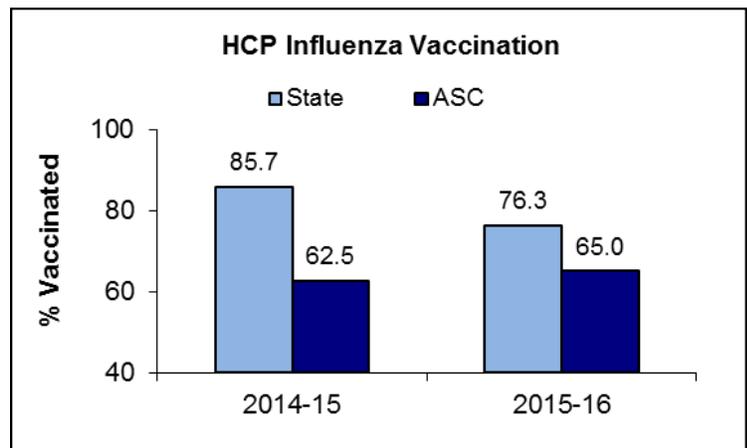
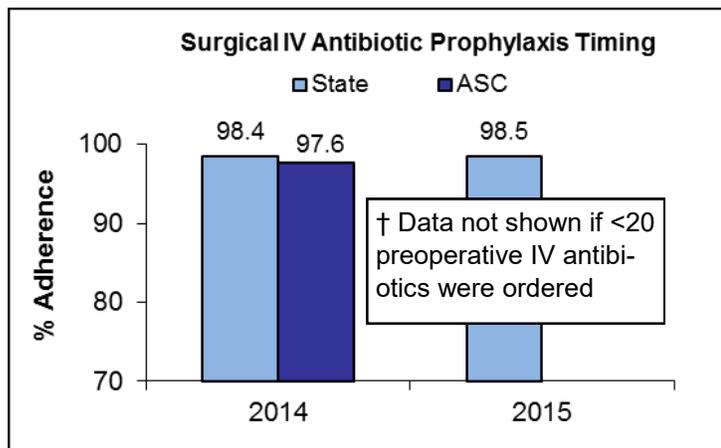
Risk Category	Infections	Procedures	ASC Rate	National Rate	P-Value	ASC Rate Compared to National Rate
<b>Breast Procedures (BRST)</b>						
Risk Category 0	-	-	-	-	-	-
Risk Category 1, 2, 3	-	-	-	-	-	-
<b>Hernia Procedures (HER)</b>						
Risk Category 0, 1	-	-	-	-	-	-
Risk Category 2, 3	-	-	-	-	-	-
<b>Open Reduction of Fracture Procedures (FX)</b>						
Risk Category 0, 1, 2, 3	-	-	-	-	-	-

†Data are not shown when fewer than 20 procedures were performed - Facility did not perform any procedures in this category in 2015

**PROCESS MEASURES**

Measure	Percent Adherence	State Percentage	Comparison to State Percentage
IV Antibiotic Prophylaxis Timing	†	98.5	†
	Percent Vaccinated	State Percentage	Comparison to State Percentage
HCP Influenza Vaccination	65.0	76.3	Similar

†Data are not shown when fewer than 20 orders of IV prophylaxis were made in 2015 - Facility did not provide IV prophylaxis in 2015



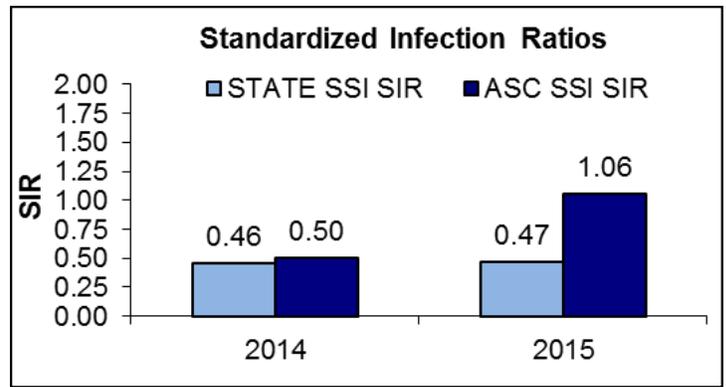
ASC: Ambulatory surgery center IV: Intravenous SSI: Surgical site infection  
 BRST: Breast procedures HER: Hernia procedures FX: Open reduction of fracture procedures



**ELLIOT 1-DAY SURGERY CENTER, RIVERS EDGE**

Manchester, NH  
 For-profit  
 Free-standing  
 # of Procedures: 7,024

**2015 HAI ASC DATA REPORT**



**STANDARDIZED INFECTION RATIOS (SIR)**

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall SSI	2	1.29	1.06	0.12 , 3.82	Similar

**PROCEDURE-SPECIFIC RATES BY RISK CATEGORY**

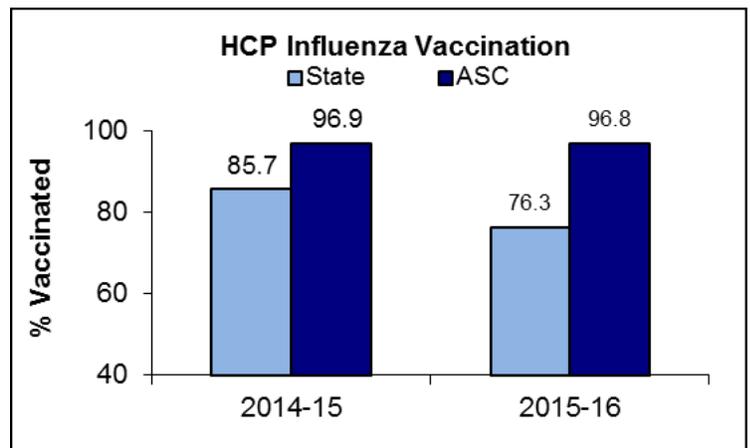
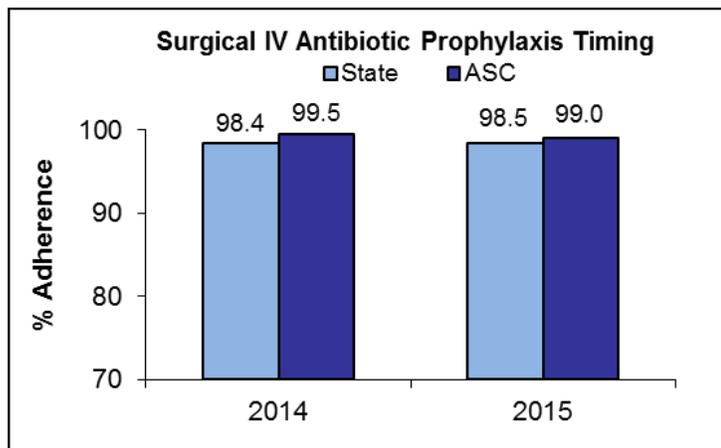
Risk Category	Infections	Procedures	ASC Rate	National Rate	P-Value	ASC Rate Compared to National Rate
Breast Procedures (BRST)						
Risk Category 0	0	195	0.00	0.32	0.570	Similar
Risk Category 1, 2, 3	2	28	7.14	1.06	0.059	Similar
Hernia Procedures (HER)						
Risk Category 0, 1	0	191	0.00	0.46	0.423	Similar
Risk Category 2, 3	†	†	†	†	†	†
Open Reduction of Fracture Procedures (FX)						
Risk Category 0, 1, 2, 3	0	27	0.00	0.28	0.929	Similar

†Data are not shown when fewer than 20 procedures were performed - Facility did not perform any procedures in this category in 2015

**PROCESS MEASURES**

Measure	Percent Adherence	State Percentage	Comparison to State Percentage
IV Antibiotic Prophylaxis Timing	99.0	98.5	Similar
	Percent Vaccinated	State Percentage	Comparison to State Percentage
HCP Influenza Vaccination	96.8	76.3	Higher

†Data are not shown when fewer than 20 orders of IV prophylaxis were made in 2015 - Facility did not provide IV prophylaxis in 2015

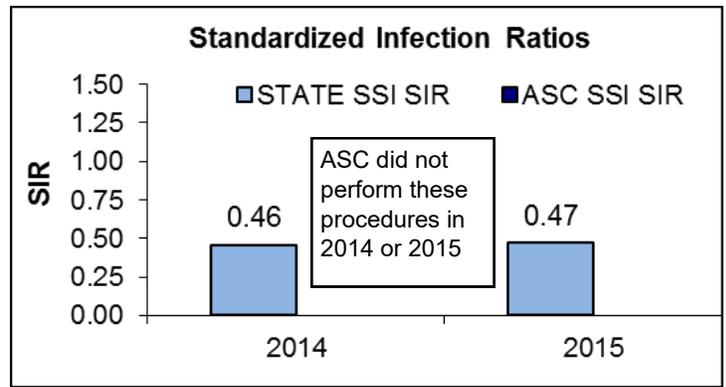


ASC: Ambulatory surgery center IV: Intravenous SSI: Surgical site infection  
 BRST: Breast procedures HER: Hernia procedures FX: Open reduction of fracture procedures



**ELLIOT ENDOSCOPY,  
RIVERS EDGE**  
Manchester, NH  
For-profit  
Free-standing  
# of Procedures: 4,402

**2015 HAI ASC DATA REPORT**



**STANDARDIZED INFECTION RATIOS (SIR)**

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall SSI	Facility did not perform any of these procedures in 2015				

**PROCEDURE-SPECIFIC RATES BY RISK CATEGORY**

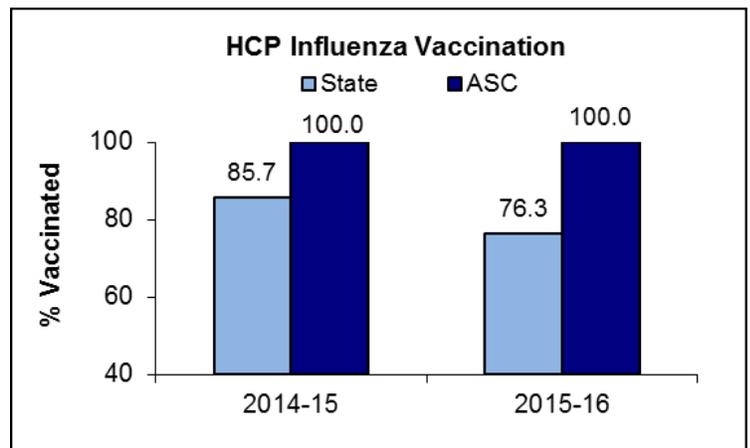
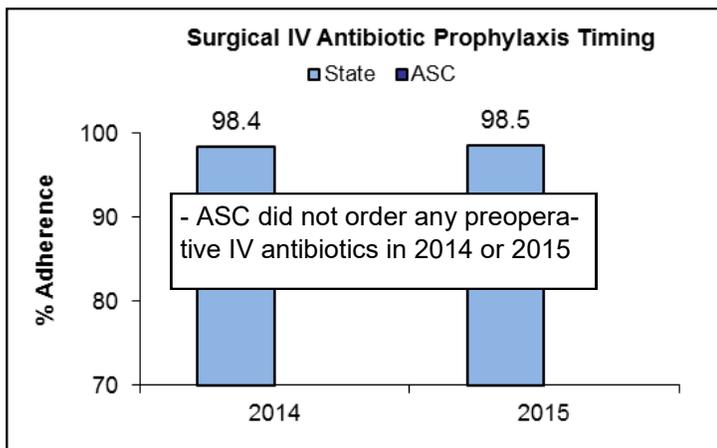
Risk Category	Infections	Procedures	ASC Rate	National Rate	P-Value	ASC Rate Compared to National Rate
<b>Breast Procedures (BRST)</b>						
Risk Category 0	-	-	-	-	-	-
Risk Category 1, 2, 3	-	-	-	-	-	-
<b>Hernia Procedures (HER)</b>						
Risk Category 0, 1	-	-	-	-	-	-
Risk Category 2, 3	-	-	-	-	-	-
<b>Open Reduction of Fracture Procedures (FX)</b>						
Risk Category 0, 1, 2, 3	-	-	-	-	-	-

†Data are not shown when fewer than 20 procedures were performed - Facility did not perform any procedures in this category for 2015

**PROCESS MEASURES**

Measure	Percent Adherence	State Percentage	Comparison to State Percentage
IV Antibiotic Prophylaxis Timing	†	98.5	†
	Percent Vaccinated	State Percentage	Comparison to State Percentage
HCP Influenza Vaccination	100.0	76.3	Higher

†Data are not shown when fewer than 20 orders of IV prophylaxis were made in 2015 - Facility did not provide IV prophylaxis in 2015

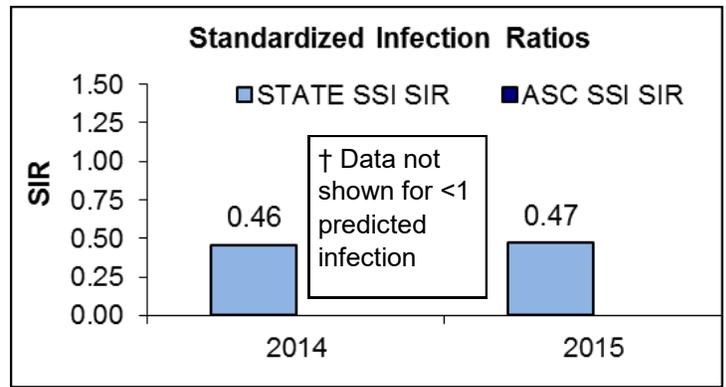


ASC: Ambulatory surgery center IV: Intravenous SSI: Surgical site infection  
BRST: Breast procedures HER: Hernia procedures FX: Open reduction of fracture procedures



**HILLSIDE SURGICAL CENTER**  
 Gilford, NH  
 For-profit  
 Free-standing  
 # of Procedures: 1,499

**2015 HAI ASC DATA REPORT**



**STANDARDIZED INFECTION RATIOS (SIR)**

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall SSI	†	†	†	†	†

**PROCEDURE-SPECIFIC RATES BY RISK CATEGORY**

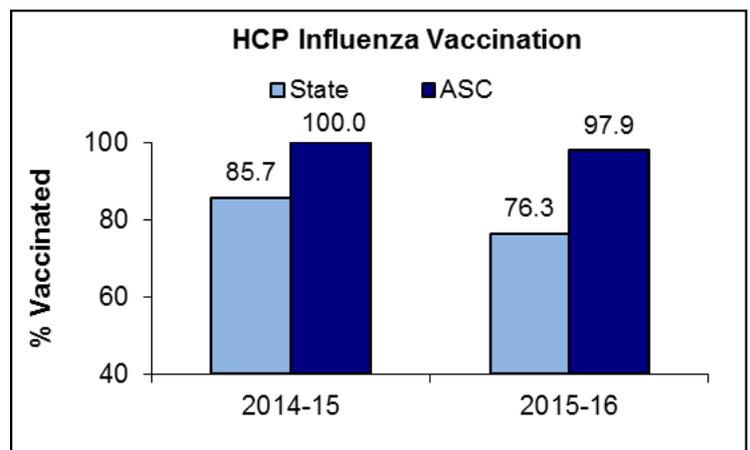
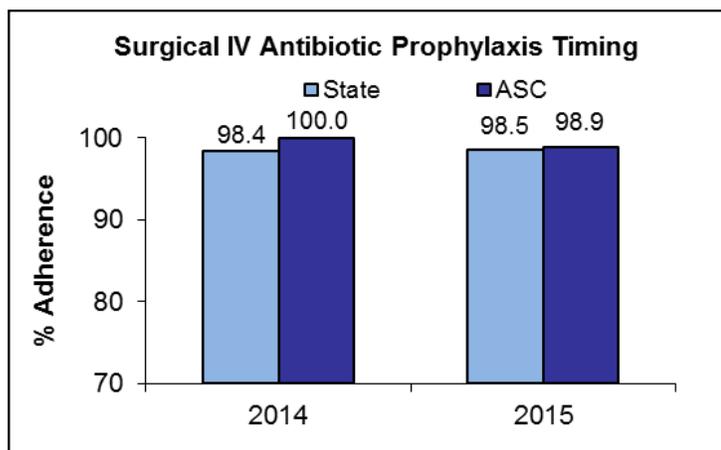
Risk Category	Infections	Procedures	ASC Rate	National Rate	P-Value	ASC Rate Compared to National Rate
Breast Procedures (BRST)						
Risk Category 0	-	-	-	-	-	-
Risk Category 1, 2, 3	-	-	-	-	-	-
Hernia Procedures (HER)						
Risk Category 0, 1	-	-	-	-	-	-
Risk Category 2, 3	-	-	-	-	-	-
Open Reduction of Fracture Procedures (FX)						
Risk Category 0, 1, 2, 3	†	†	†	†	†	†

†Data are not shown when fewer than 20 procedures were performed - Facility did not perform any procedures in this category in 2015

**PROCESS MEASURES**

Measure	Percent Adherence	State Percentage	Comparison to State Percentage
IV Antibiotic Prophylaxis Timing	98.9	98.5	Similar
	Percent Vaccinated	State Percentage	Comparison to State Percentage
HCP Influenza Vaccination	97.9	76.3	Higher

†Data are not shown when fewer than 20 orders of IV prophylaxis were made in 2015 - Facility did not provide IV prophylaxis in 2015

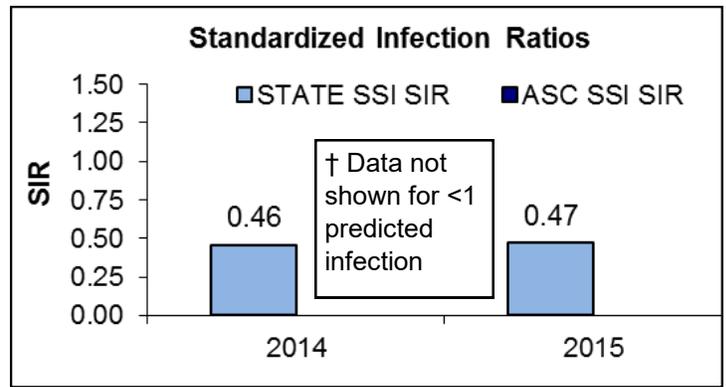


ASC: Ambulatory surgery center IV: Intravenous SSI: Surgical site infection  
 BRST: Breast procedures HER: Hernia procedures FX: Open reduction of fracture procedures



**LACONIA CLINIC, ASC**  
 Laconia, NH  
 Not-for-profit  
 Free-standing  
 # of Procedures: 1,589

**2015 HAI ASC DATA REPORT**



**STANDARDIZED INFECTION RATIOS (SIR)**

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall SSI	Facility did not perform any of these procedures in 2015				

**PROCEDURE-SPECIFIC RATES BY RISK CATEGORY**

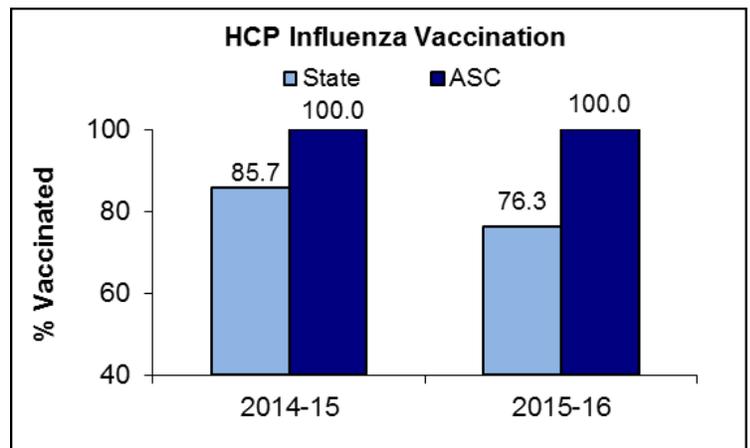
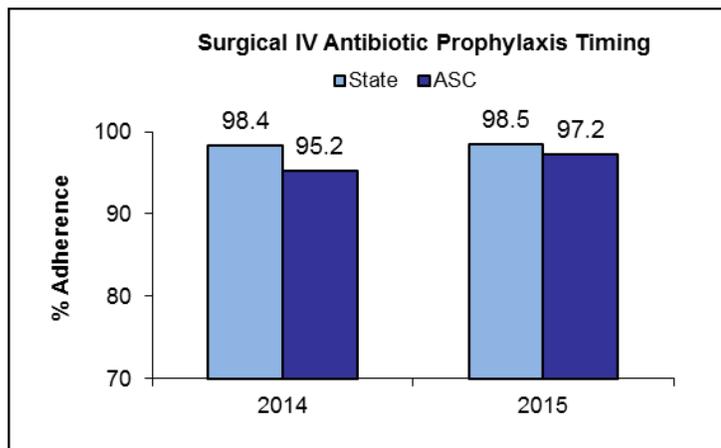
Risk Category	Infections	Procedures	ASC Rate	National Rate	P-Value	ASC Rate Compared to National Rate
<b>Breast Procedures (BRST)</b>						
Risk Category 0	-	-	-	-	-	-
Risk Category 1, 2, 3	-	-	-	-	-	-
<b>Hernia Procedures (HER)</b>						
Risk Category 0, 1	-	-	-	-	-	-
Risk Category 2, 3	-	-	-	-	-	-
<b>Open Reduction of Fracture Procedures (FX)</b>						
Risk Category 0, 1, 2, 3	-	-	-	-	-	-

†Data are not shown when fewer than 20 procedures were performed - Facility did not perform any procedures in this category in 2015

**PROCESS MEASURES**

Measure	Percent Adherence	State Percentage	Comparison to State Percentage
IV Antibiotic Prophylaxis Timing	97.2	98.5	Similar
	Percent Vaccinated	State Percentage	Comparison to State Percentage
HCP Influenza Vaccination	100.0	76.3	Higher

†Data are not shown when fewer than 20 orders of IV prophylaxis were made in 2015 - Facility did not provide IV prophylaxis in 2015

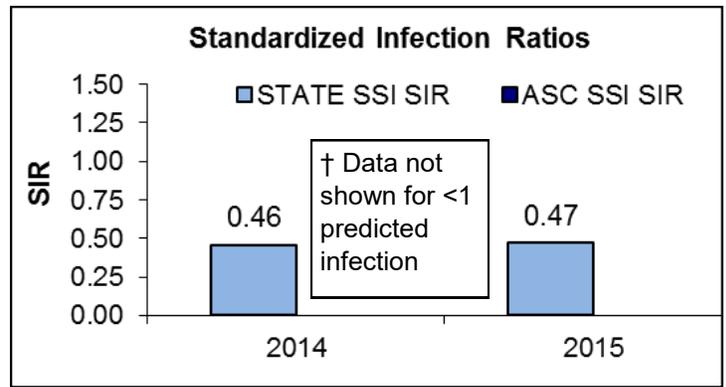


ASC: Ambulatory surgery center IV: Intravenous SSI: Surgical site infection  
 BRST: Breast procedures HER: Hernia procedures FX: Open reduction of fracture procedures



**NASHUA ASC**  
 Nashua, NH  
 Physician-owned  
 Free-standing  
 # of Procedures: 1,506

**2015 HAI ASC DATA REPORT**



**STANDARDIZED INFECTION RATIOS (SIR)**

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall SSI	†	†	†	†	†

**PROCEDURE-SPECIFIC RATES BY RISK CATEGORY**

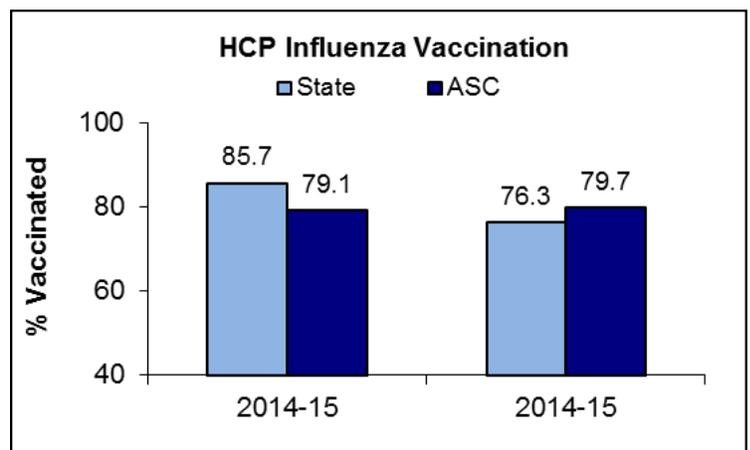
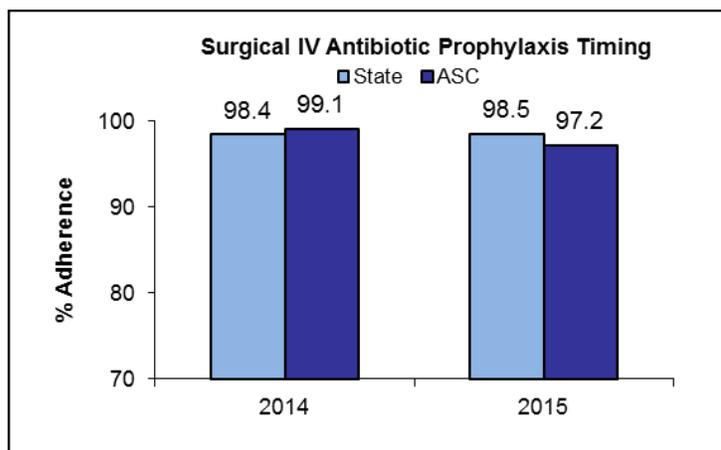
Risk Category	Infections	Procedures	ASC Rate	National Rate	P-Value	ASC Rate Compared to National Rate
Breast Procedures (BRST)						
Risk Category 0	0	2	0.00	0.32	0.994	Similar
Risk Category 1, 2, 3	†	†	†	†	†	†
Hernia Procedures (HER)						
Risk Category 0, 1	-	-	-	-	-	-
Risk Category 2, 3	-	-	-	-	-	-
Open Reduction of Fracture Procedures (FX)						
Risk Category 0, 1, 2, 3	0	49	0.00	0.280	0.876	Similar

†Data are not shown when fewer than 20 procedures were performed - Facility did not perform any procedures in this category in 2015

**PROCESS MEASURES**

Measure	Percent Adherence	State Percentage	Comparison to State Percentage
IV Antibiotic Prophylaxis Timing	97.2	98.5	Lower
	Percent Vaccinated	State Percentage	Comparison to State Percentage
HCP Influenza Vaccination	79.7	76.3	Similar

†Data are not shown when fewer than 20 orders of IV prophylaxis were made in 2015 - Facility did not provide IV prophylaxis in 2015



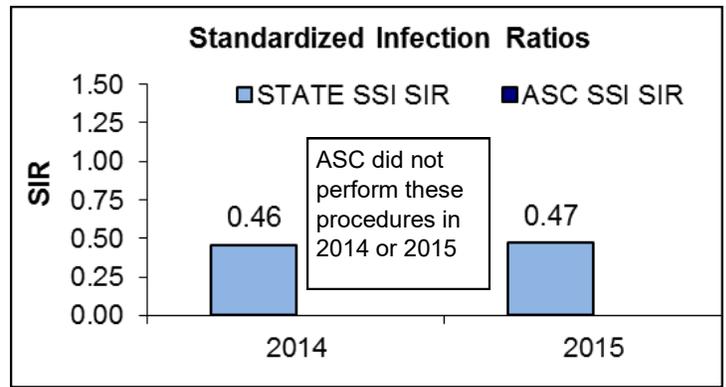
ASC: Ambulatory surgery center IV: Intravenous SSI: Surgical site infection  
 BRST: Breast procedures HER: Hernia procedures FX: Open reduction of fracture procedures



**NASHUA EYE SURGERY CENTER / NOVAMED**

Nashua, NH  
Corporate/Physician-owned  
Free-standing  
# of Procedures: 2,522

**2015 HAI ASC DATA REPORT**



**STANDARDIZED INFECTION RATIOS (SIR)**

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall SSI	Facility did not perform any of these procedures in 2015				

**PROCEDURE-SPECIFIC RATES BY RISK CATEGORY**

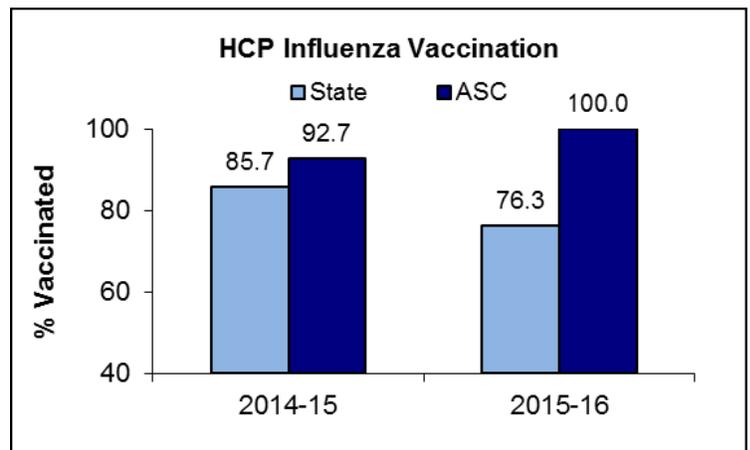
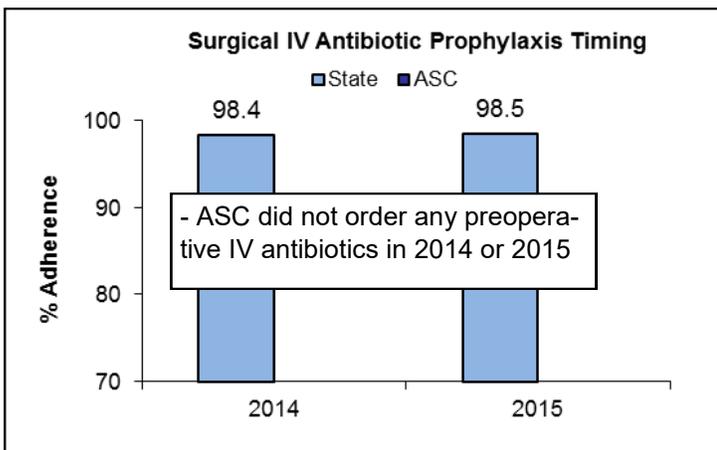
Risk Category	Infections	Procedures	ASC Rate	National Rate	P-Value	ASC Rate Compared to National Rate
<b>Breast Procedures (BRST)</b>						
Risk Category 0	-	-	-	-	-	-
Risk Category 1, 2, 3	-	-	-	-	-	-
<b>Hernia Procedures (HER)</b>						
Risk Category 0, 1	-	-	-	-	-	-
Risk Category 2, 3	-	-	-	-	-	-
<b>Open Reduction of Fracture Procedures (FX)</b>						
Risk Category 0, 1, 2, 3	-	-	-	-	-	-

†Data are not shown when fewer than 20 procedures were performed - Facility did not perform any procedures in this category in 2015

**PROCESS MEASURES**

Measure	Percent Adherence	State Percentage	Comparison to State Percentage
IV Antibiotic Prophylaxis Timing	-	98.5	-
	Percent Vaccinated	State Percentage	Comparison to State Percentage
HCP Influenza Vaccination	100.0	76.3	Higher

†Data are not shown when fewer than 20 orders of IV prophylaxis were made in 2015 - Facility did not provide IV prophylaxis in 2015

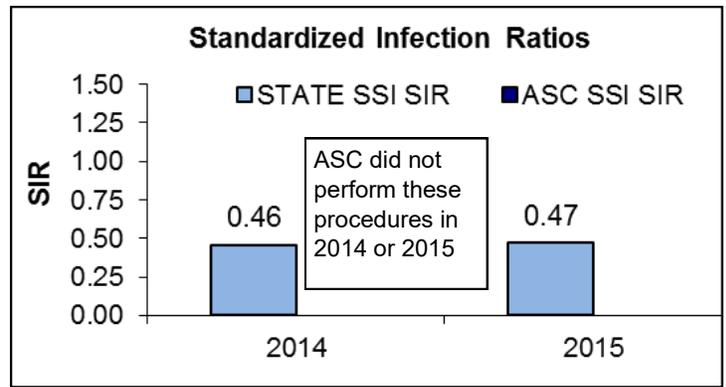


ASC: Ambulatory surgery center IV: Intravenous SSI: Surgical site infection  
BRST: Breast procedures HER: Hernia procedures FX: Open reduction of fracture procedures



**NH EYE SURGICENTER / NOVAMED**  
 Bedford, NH  
 Physician-owned  
 Free-standing  
 # of Procedures: 1,202

**2015 HAI ASC DATA REPORT**



**STANDARDIZED INFECTION RATIOS (SIR)**

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall SSI	Facility did not perform any of these procedures in 2015				

**PROCEDURE-SPECIFIC RATES BY RISK CATEGORY**

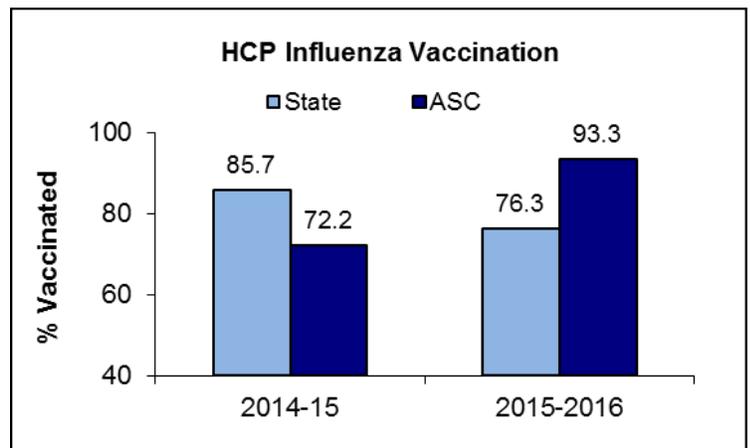
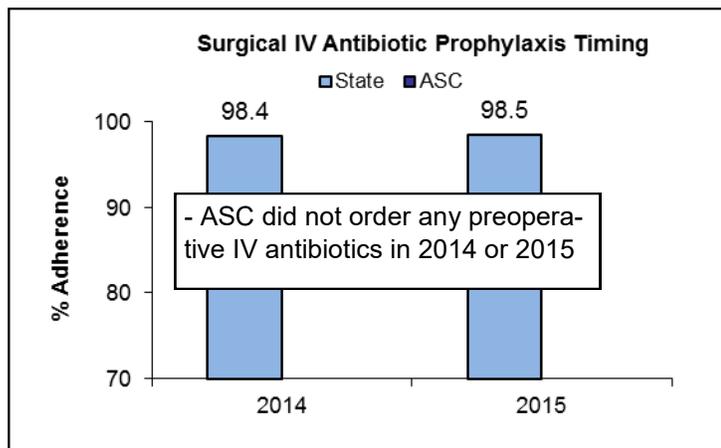
Risk Category	Infections	Procedures	ASC Rate	National Rate	P-Value	ASC Rate Compared to National Rate
<b>Breast Procedures (BRST)</b>						
Risk Category 0	-	-	-	-	-	-
Risk Category 1, 2, 3	-	-	-	-	-	-
<b>Hernia Procedures (HER)</b>						
Risk Category 0, 1	-	-	-	-	-	-
Risk Category 2, 3	-	-	-	-	-	-
<b>Open Reduction of Fracture Procedures (FX)</b>						
Risk Category 0, 1, 2, 3	-	-	-	-	-	-

†Data are not shown when fewer than 20 procedures were performed - Facility did not perform any procedures in this category in 2015

**PROCESS MEASURES**

Measure	Percent Adherence	State Percentage	Comparison to State Percentage
IV Antibiotic Prophylaxis Timing	-	98.4	-
	Percent Vaccinated	State Percentage	Comparison to State Percentage
HCP Influenza Vaccination	93.3	76.3	Similar

†Data are not shown when fewer than 20 orders of IV prophylaxis were made in 2015 - Facility did not provide IV prophylaxis in 2015



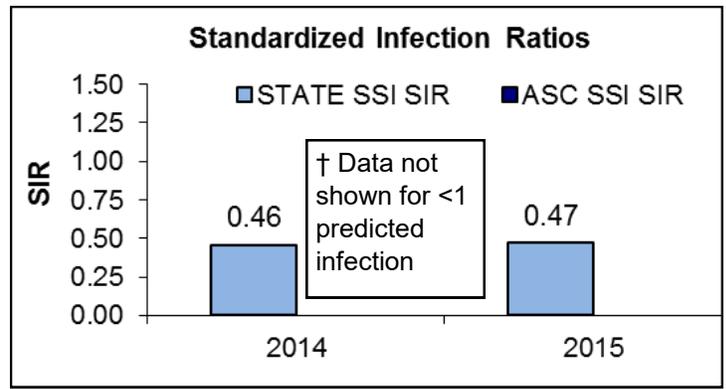
ASC: Ambulatory surgery center IV: Intravenous SSI: Surgical site infection  
 BRST: Breast procedures HER: Hernia procedures FX: Open reduction of fracture procedures



**NORTHEAST SURGICAL CARE**

Newington, NH  
 Physician-owned  
 Free-standing  
 # of Procedures: 2,073

**2015 HAI ASC DATA REPORT**



**STANDARDIZED INFECTION RATIOS (SIR)**

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall SSI	†	†	†	†	†

**PROCEDURE-SPECIFIC RATES BY RISK CATEGORY**

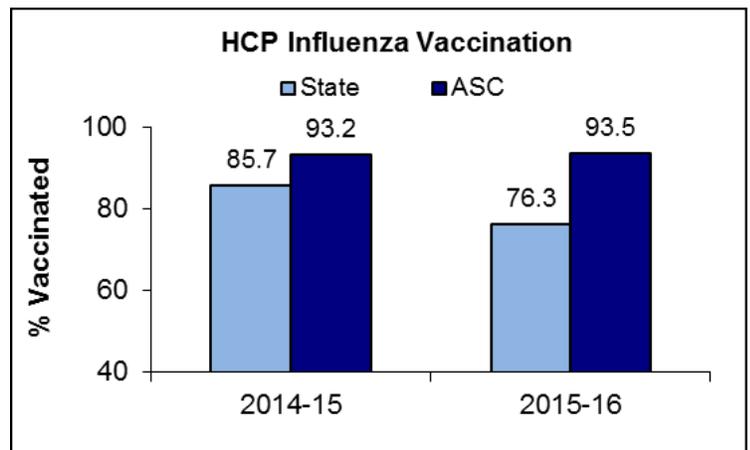
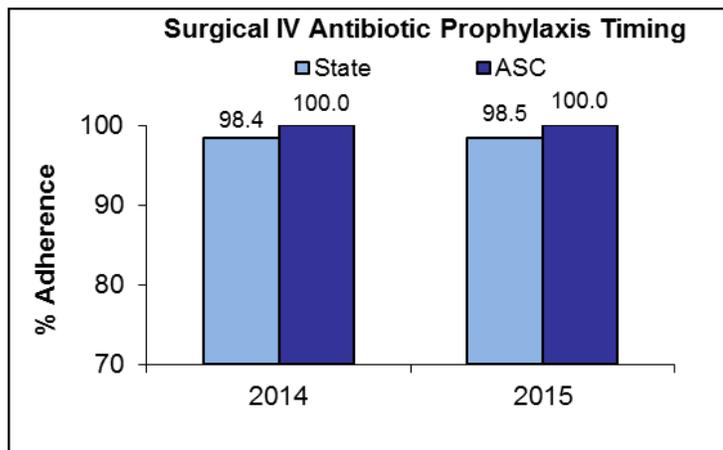
Risk Category	Infections	Procedures	ASC Rate	National Rate	P-Value	ASC Rate Compared to National Rate
Breast Procedures (BRST)						
Risk Category 0	-	-	-	-	-	-
Risk Category 1, 2, 3	-	-	-	-	-	-
Hernia Procedures (HER)						
Risk Category 0, 1	-	-	-	-	-	-
Risk Category 2, 3	-	-	-	-	-	-
Open Reduction of Fracture Procedures (FX)						
Risk Category 0, 1, 2, 3	0	21	0.00	0.28	0.944	Similar

†Data are not shown when fewer than 20 procedures were performed - Facility did not perform any procedures in this category in 2015

**PROCESS MEASURES**

Measure	Percent Adherence	State Percentage	Comparison to State Percentage
IV Antibiotic Prophylaxis Timing	100.0	98.5	Higher
	Percent Vaccinated	State Percentage	Comparison to State Percentage
HCP Influenza Vaccination	93.5	76.3	Higher

†Data are not shown when fewer than 20 orders of IV prophylaxis were made in 2015 - Facility did not provide IV prophylaxis in 2015

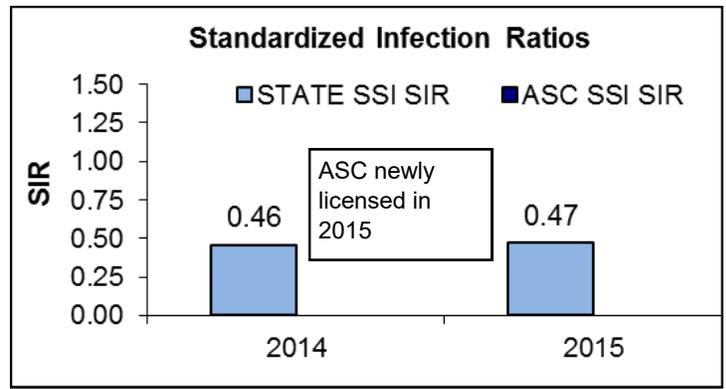


ASC: Ambulatory surgery center IV: Intravenous SSI: Surgical site infection  
 BRST: Breast procedures HER: Hernia procedures FX: Open reduction of fracture procedures



**ORCHARD SURGICAL CENTER**  
 Salem, NH  
 For-profit  
 Free-standing  
 # of Procedures: Not applicable.  
 Facility opened in 2015

**2015 HAI ASC DATA REPORT**



**STANDARDIZED INFECTION RATIOS (SIR)**

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall SSI	ASC newly licensed in 2015				

**PROCEDURE-SPECIFIC RATES BY RISK CATEGORY**

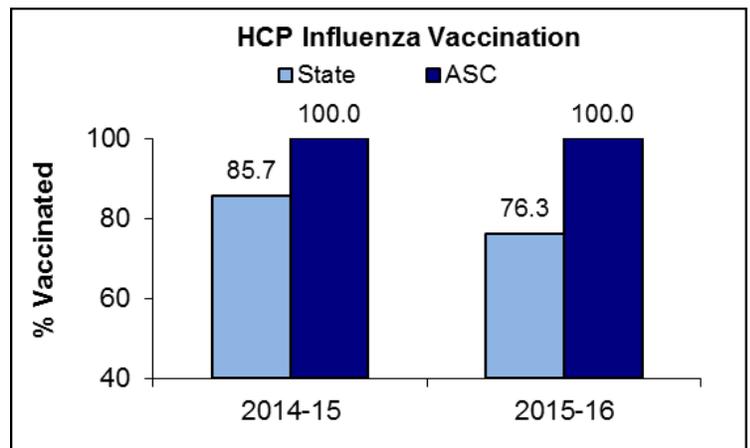
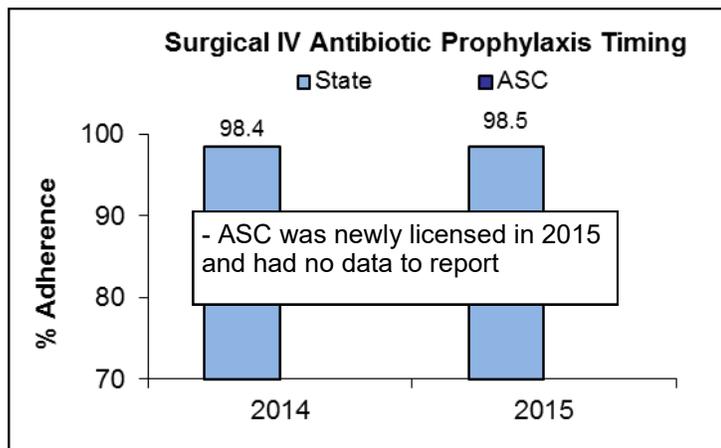
Risk Category	Infections	Procedures	ASC Rate	National Rate	P-Value	ASC Rate Compared to National Rate
<b>Breast Procedures (BRST)</b>						
Risk Category 0						
Risk Category 1, 2, 3						
<b>Hernia Procedures (HER)</b>						
Risk Category 0, 1						
Risk Category 2, 3						
<b>Open Reduction of Fracture Procedures (FX)</b>						
Risk Category 0, 1, 2, 3						

†Data are not shown when fewer than 20 procedures were performed - Facility did not perform any procedures in this category in 2015

**PROCESS MEASURES**

Measure	Percent Adherence	State Percentage	Comparison to State Percentage
IV Antibiotic Prophylaxis Timing	-	98.5	-
	Percent Vaccinated	State Percentage	Comparison to State Percentage
HCP Influenza Vaccination	100.0	76.3	Higher

†Data are not shown when fewer than 20 orders of IV prophylaxis were made in 2015 - Facility did not provide IV prophylaxis in 2015



ASC: Ambulatory surgery center IV: Intravenous SSI: Surgical site infection

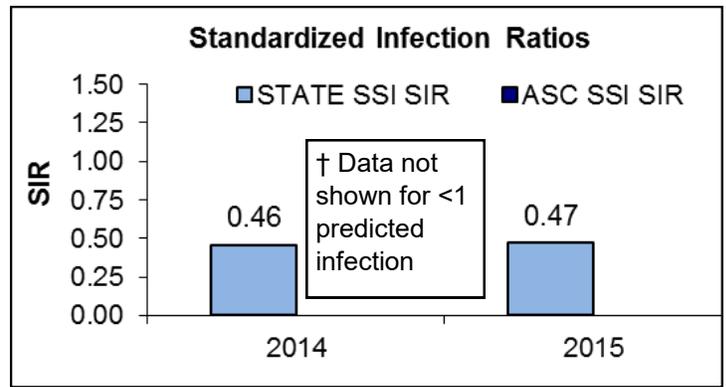
BRST: Breast procedures HER: Hernia procedures FX: Open reduction of fracture procedures



# ORTHOPAEDIC SURGERY CENTER

Concord, NH  
Not-for-profit  
Free-standing  
# of Procedures: 5,360

## 2015 HAI ASC DATA REPORT



### STANDARDIZED INFECTION RATIOS (SIR)

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall SSI	†	†	†	†	†

### PROCEDURE-SPECIFIC RATES BY RISK CATEGORY

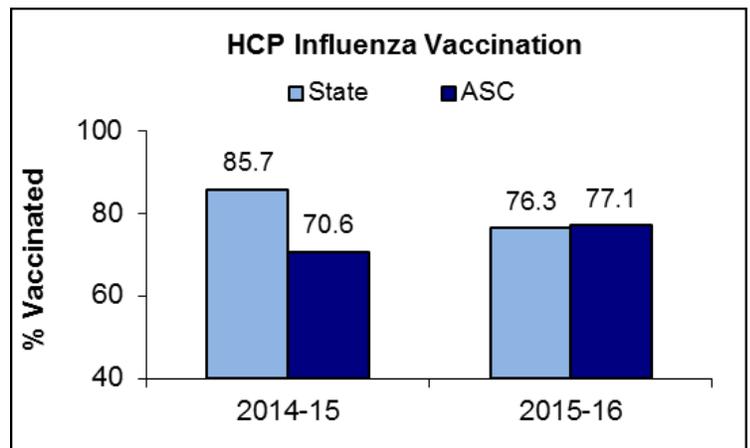
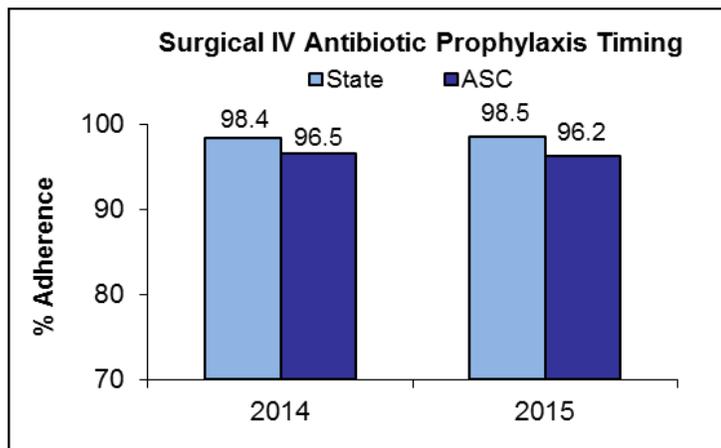
Risk Category	Infections	Procedures	ASC Rate	National Rate	P-Value	ASC Rate Compared to National Rate
Breast Procedures (BRST)						
Risk Category 0	-	-	-	-	-	-
Risk Category 1, 2, 3	-	-	-	-	-	-
Hernia Procedures (HER)						
Risk Category 0, 1	-	-	-	-	-	-
Risk Category 2, 3	-	-	-	-	-	-
Open Reduction of Fracture Procedures (FX)						
Risk Category 0, 1, 2, 3	0	125	0.00	0.28	0.725	Similar

†Data are not shown when fewer than 20 procedures were performed - Facility did not perform any procedures in this category in 2015

### PROCESS MEASURES

Measure	Percent Adherence	State Percentage	Comparison to State Percentage
IV Antibiotic Prophylaxis Timing	96.2	98.5	Lower
	Percent Vaccinated	State Percentage	Comparison to State Percentage
HCP Influenza Vaccination	77.1	76.3	Similar

†Data are not shown when fewer than 20 orders of IV prophylaxis were made in 2015 - Facility did not provide IV prophylaxis in 2015



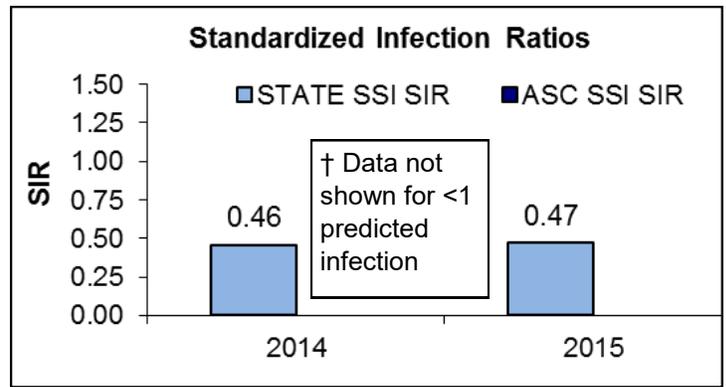
ASC: Ambulatory surgery center IV: Intravenous SSI: Surgical site infection  
BRST: Breast procedures HER: Hernia procedures FX: Open reduction of fracture procedures



# ORTHOPAEDIC SURGERY CENTER, DERRY

Derry, NH  
 Not-for-profit  
 Free-standing  
 # of Procedures: 1,121

## 2015 HAI ASC DATA REPORT



### STANDARDIZED INFECTION RATIOS (SIR)

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall SSI	†	†	†	†	†

### PROCEDURE-SPECIFIC RATES BY RISK CATEGORY

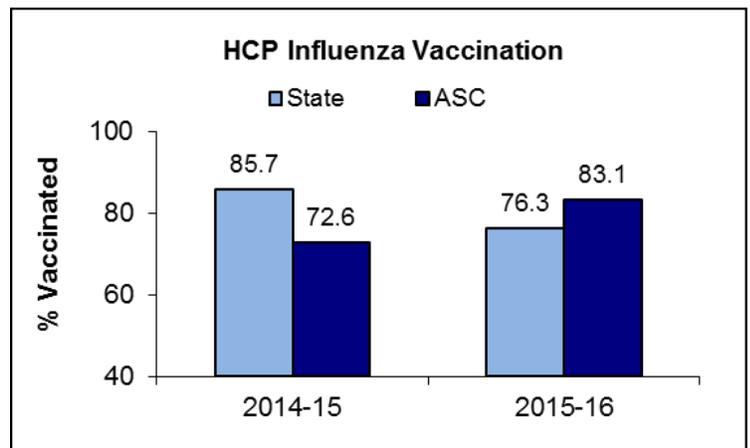
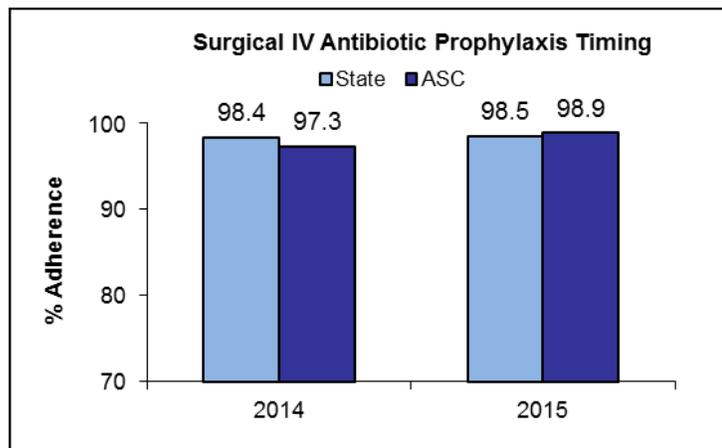
Risk Category	Infections	Procedures	ASC Rate	National Rate	P-Value	ASC Rate Compared to National Rate
Breast Procedures (BRST)						
Risk Category 0	-	-	-	-	-	-
Risk Category 1, 2, 3	-	-	-	-	-	-
Hernia Procedures (HER)						
Risk Category 0, 1	-	-	-	-	-	-
Risk Category 2, 3	-	-	-	-	-	-
Open Reduction of Fracture Procedures (FX)						
Risk Category 0, 1, 2, 3	0	28	0.00	0.28	0.926	Similar

†Data are not shown when fewer than 20 procedures were performed - Facility did not perform any procedures in this category in 2015

### PROCESS MEASURES

Measure	Percent Adherence	State Percentage	Comparison to State Percentage
IV Antibiotic Prophylaxis Timing	98.9	98.5	Higher
	Percent Vaccinated	State Percentage	Comparison to State Percentage
HCP Influenza Vaccination	83.1	76.3	Similar

†Data are not shown when fewer than 20 orders of IV prophylaxis were made in 2015 - Facility did not provide IV prophylaxis in 2015

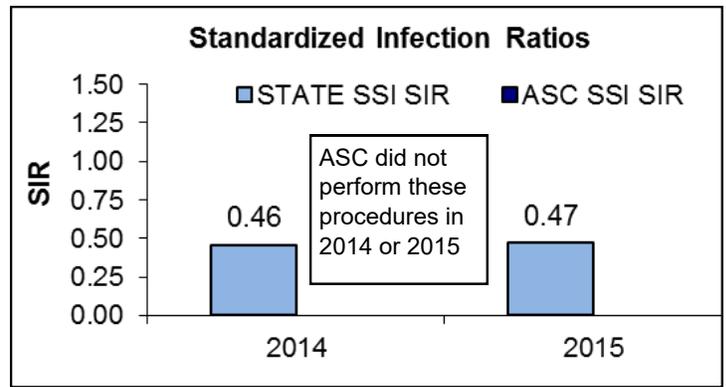


ASC: Ambulatory surgery center IV: Intravenous SSI: Surgical site infection  
 BRST: Breast procedures HER: Hernia procedures FX: Open reduction of fracture procedures



**PARKLAND ENDOSCOPY CENTER**  
 Derry, NH  
 For-profit  
 Free-standing  
 # of Procedures: 5,646

**2015 HAI ASC DATA REPORT**



**STANDARDIZED INFECTION RATIOS (SIR)**

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall SSI	Facility did not perform any of these procedures in 2015				

**PROCEDURE-SPECIFIC RATES BY RISK CATEGORY**

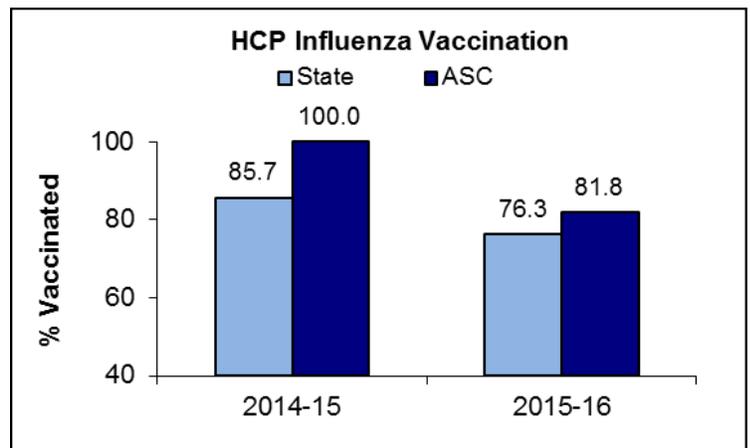
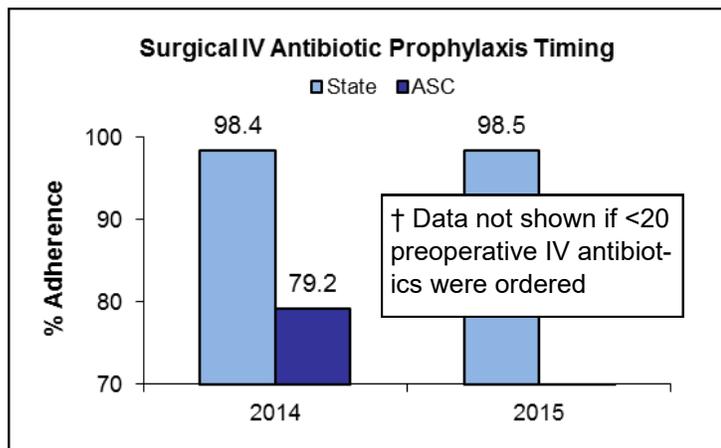
Risk Category	Infections	Procedures	ASC Rate	National Rate	P-Value	ASC Rate Compared to National Rate
<b>Breast Procedures (BRST)</b>						
Risk Category 0	-	-	-	-	-	-
Risk Category 1, 2, 3	-	-	-	-	-	-
<b>Hernia Procedures (HER)</b>						
Risk Category 0, 1	-	-	-	-	-	-
Risk Category 2, 3	-	-	-	-	-	-
<b>Open Reduction of Fracture Procedures (FX)</b>						
Risk Category 0, 1, 2, 3	-	-	-	-	-	-

†Data are not shown when fewer than 20 procedures were performed - Facility did not perform any procedures in this category in 2015

**PROCESS MEASURES**

Measure	Percent Adherence	State Percentage	Comparison to State Percentage
IV Antibiotic Prophylaxis Timing	†	98.5	†
	Percent Vaccinated	State Percentage	Comparison to State Percentage
HCP Influenza Vaccination	81.8	76.3	Similar

†Data are not shown when fewer than 20 orders of IV prophylaxis were made in 2015 - Facility did not provide IV prophylaxis in 2015



ASC: Ambulatory surgery center IV: Intravenous SSI: Surgical site infection  
 BRST: Breast procedures HER: Hernia procedures FX: Open reduction of fracture procedures



# PORTSMOUTH REGIONAL

## ASC

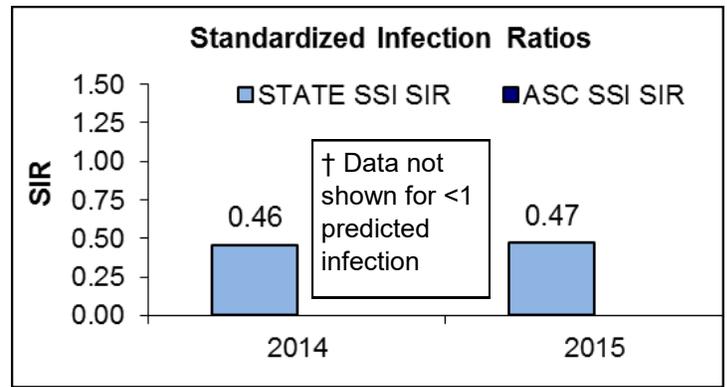
Portsmouth, NH

Physician-owned

Free-standing

# of Procedures: 3,002

### 2015 HAI ASC DATA REPORT



### STANDARDIZED INFECTION RATIOS (SIR)

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall SSI	†	†	†	†	†

### PROCEDURE-SPECIFIC RATES BY RISK CATEGORY

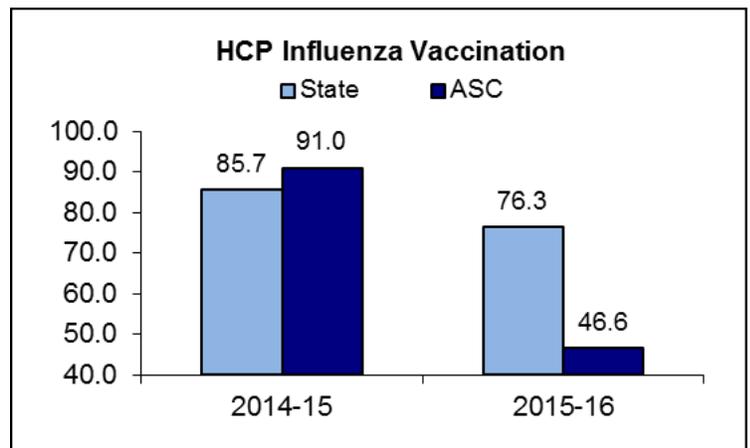
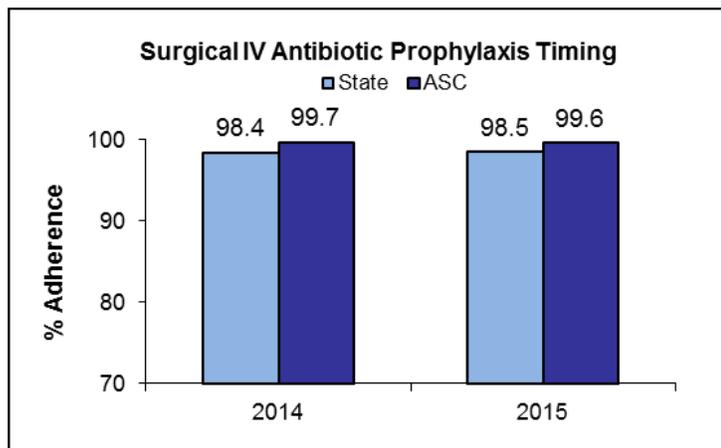
Risk Category	Infections	Procedures	ASC Rate	National Rate	P-Value	ASC Rate Compared to National Rate
Breast Procedures (BRST)						
Risk Category 0	-	-	-	-	-	-
Risk Category 1, 2, 3	-	-	-	-	-	-
Hernia Procedures (HER)						
Risk Category 0, 1	†	†	†	†	†	†
Risk Category 2, 3	-	-	-	-	-	-
Open Reduction of Fracture Procedures (FX)						
Risk Category 0, 1, 2, 3	†	†	†	†	†	†

†Data are not shown when fewer than 20 procedures were performed - Facility did not perform any procedures in this category in 2015

### PROCESS MEASURES

Measure	Percent Adherence	State Percentage	Comparison to State Percentage
IV Antibiotic Prophylaxis Timing	99.6	98.5	Higher
Percent Vaccinated			
HCP Influenza Vaccination	46.6	76.3	Lower

†Data are not shown when fewer than 20 orders of IV prophylaxis were made in 2015 - Facility did not provide IV prophylaxis in 2015



ASC: Ambulatory surgery center IV: Intravenous SSI: Surgical site infection

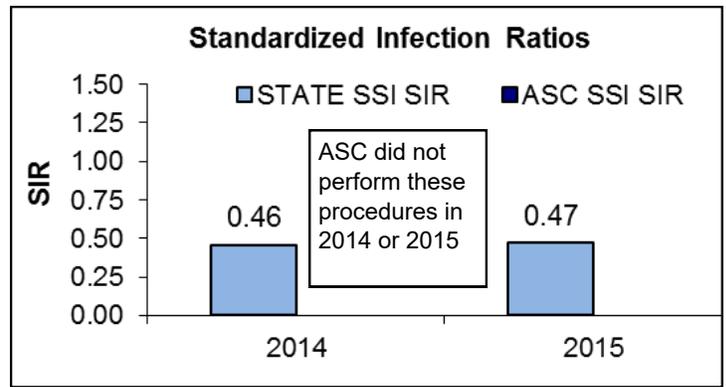
BRST: Breast procedures HER: Hernia procedures FX: Open reduction of fracture procedures



## RYE SURGICAL CENTER

Rye, NH  
 For-profit  
 Free-standing  
 # of Procedures: 224

### 2015 HAI ASC DATA REPORT



### STANDARDIZED INFECTION RATIOS (SIR)

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall SSI	Facility did not perform any of these procedures in 2015				

### PROCEDURE-SPECIFIC RATES BY RISK CATEGORY

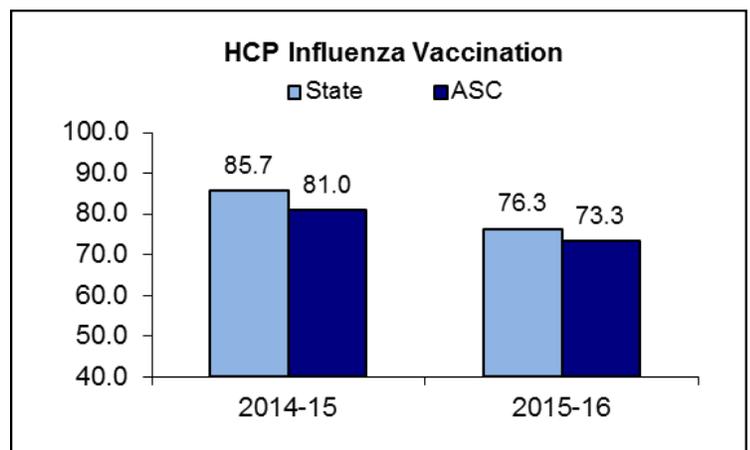
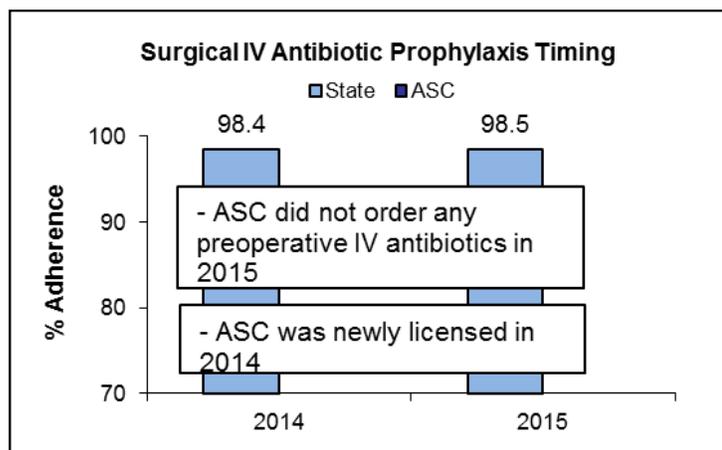
Risk Category	Infections	Procedures	ASC Rate	National Rate	P-Value	ASC Rate Compared to National Rate
Breast Procedures (BRST)						
Risk Category 0	-	-	-	-	-	-
Risk Category 1, 2, 3	-	-	-	-	-	-
Hernia Procedures (HER)						
Risk Category 0, 1	-	-	-	-	-	-
Risk Category 2, 3	-	-	-	-	-	-
Open Reduction of Fracture Procedures (FX)						
Risk Category 0, 1, 2, 3	-	-	-	-	-	-

†Data are not shown when fewer than 20 procedures were performed - Facility did not perform any procedures in this category in 2015

### PROCESS MEASURES

Measure	Percent Adherence	State Percentage	Comparison to State Percentage
IV Antibiotic Prophylaxis Timing	-	98.5	-
<b>Percent Vaccinated</b>			
HCP Influenza Vaccination	73.3	76.3	Similar

†Data are not shown when fewer than 20 orders of IV prophylaxis were made in 2015 - Facility did not provide IV prophylaxis in 2015



ASC: Ambulatory surgery center IV: Intravenous SSI: Surgical site infection  
 BRST: Breast procedures HER: Hernia procedures FX: Open reduction of fracture procedures



# SALEM SURGERY CENTER

Salem, NH

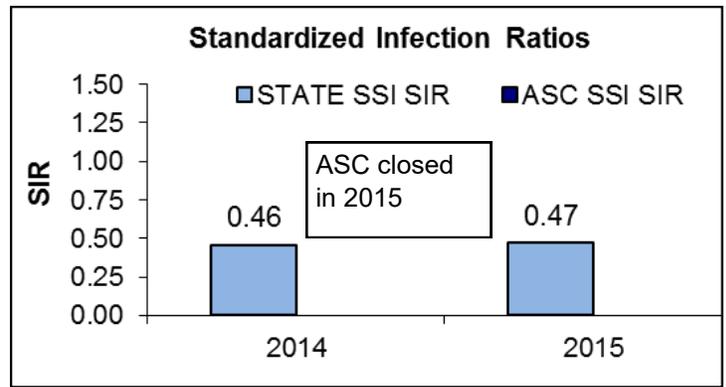
For-profit

Free-standing

# of Procedures: Not applicable.

Facility closed 2015.

## 2015 HAI ASC DATA REPORT



### STANDARDIZED INFECTION RATIOS (SIR)

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall SSI	Facility closed in 2015				

### PROCEDURE-SPECIFIC RATES BY RISK CATEGORY

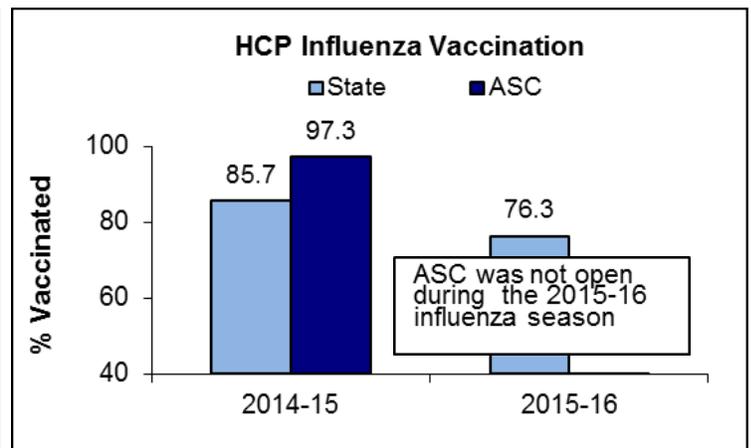
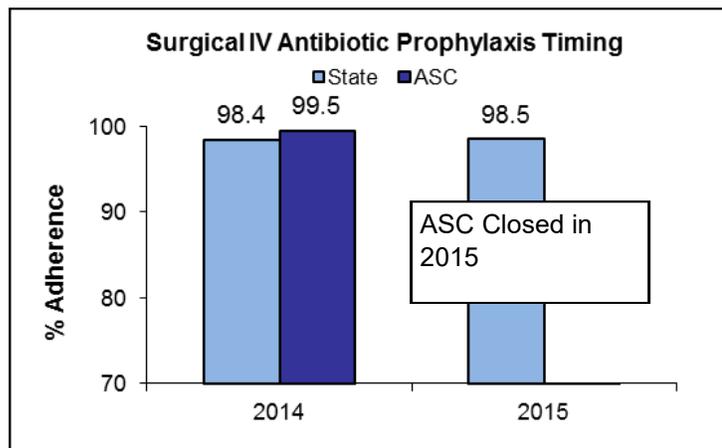
Risk Category	Infections	Procedures	ASC Rate	National Rate	P-Value	ASC Rate Compared to National Rate
Breast Procedures (BRST)						
Risk Category 0						
Risk Category 1, 2, 3						
Hernia Procedures (HER)						
Risk Category 0, 1						
Risk Category 2, 3						
Open Reduction of Fracture Procedures (FX)						
Risk Category 0, 1, 2, 3						

†Data are not shown when fewer than 20 procedures were performed - Facility did not perform any procedures in this category in 2015

### PROCESS MEASURES

Measure	Percent Adherence	State Percentage	Comparison to State Percentage
IV Antibiotic Prophylaxis Timing	-	98.5	-
<b>Percent Vaccinated</b>			
HCP Influenza Vaccination	-	76.3	-

†Data are not shown when fewer than 20 orders of IV prophylaxis were made in 2015 - Facility did not provide IV prophylaxis in 2015

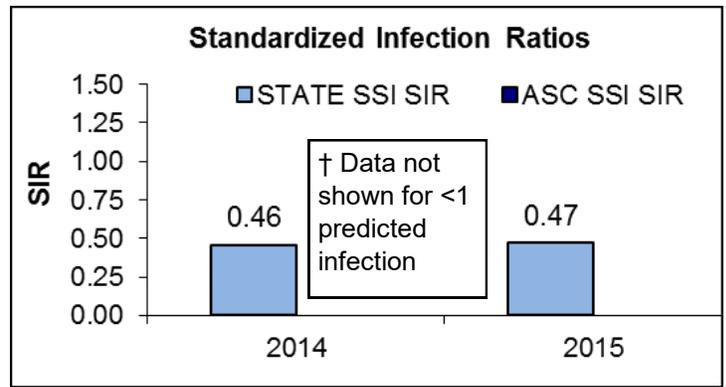


ASC: Ambulatory surgery center IV: Intravenous SSI: Surgical site infection  
 BRST: Breast procedures HER: Hernia procedures FX: Open reduction of fracture procedures



**STRATHAM ASC**  
 Stratham, NH  
 Physician-owned  
 Free-standing  
 # of Procedures: 1,582

**2015 HAI ASC DATA REPORT**



**STANDARDIZED INFECTION RATIOS (SIR)**

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall SSI	†	†	†	†	†

**PROCEDURE-SPECIFIC RATES BY RISK CATEGORY**

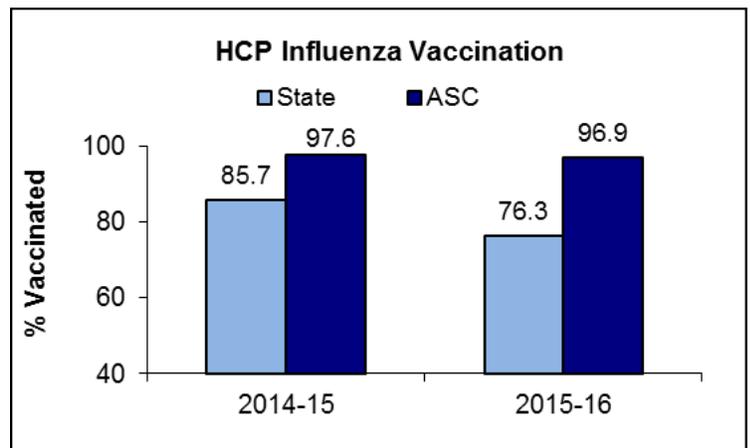
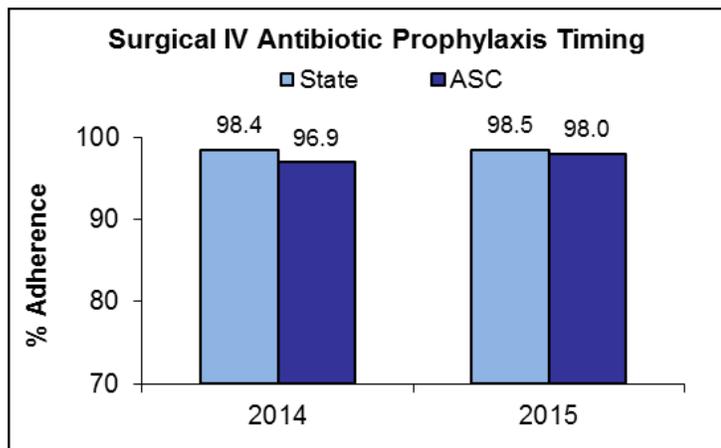
Risk Category	Infections	Procedures	ASC Rate	National Rate	P-Value	ASC Rate Compared to National Rate
Breast Procedures (BRST)						
Risk Category 0	0	72	0.00	0.32	0.803	Similar
Risk Category 1, 2, 3	0	9	0.00	1.06	0.910	Similar
Hernia Procedures (HER)						
Risk Category 0, 1	†	†	†	†	†	†
Risk Category 2, 3	†	†	†	†	†	†
Open Reduction of Fracture Procedures (FX)						
Risk Category 0, 1, 2, 3	-	-	-	-	-	-

†Data are not shown when fewer than 20 procedures were performed - Facility did not perform any procedures in this category in 2015

**PROCESS MEASURES**

Measure	Percent Adherence	State Percentage	Comparison to State Percentage
IV Antibiotic Prophylaxis Timing	98.0	98.5	Similar
	Percent Vaccinated	State Percentage	Comparison to State Percentage
HCP Influenza Vaccination	96.9	76.3	Higher

†Data are not shown when fewer than 20 orders of IV prophylaxis were made in 2015 - Facility did not provide IV prophylaxis in 2015



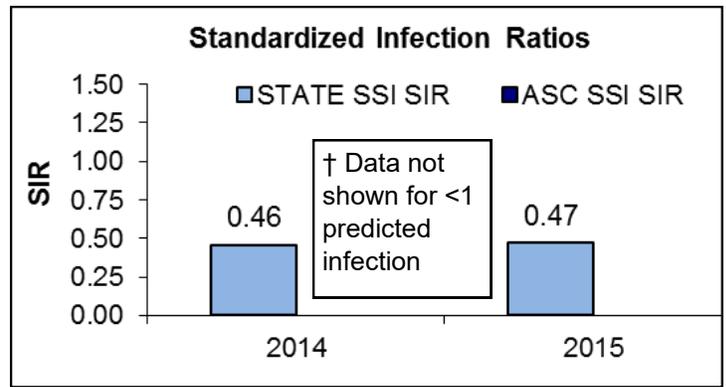
ASC: Ambulatory surgery center IV: Intravenous SSI: Surgical site infection  
 BRST: Breast procedures HER: Hernia procedures FX: Open reduction of fracture procedures



**THE SURGERY CENTER OF GREATER NASHUA**

Nashua, NH  
 Not-for-profit  
 Free-standing  
 # of Procedures: 672

**2015 HAI ASC DATA REPORT**



**STANDARDIZED INFECTION RATIOS (SIR)**

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall SSI	†	†	†	†	†

**PROCEDURE-SPECIFIC RATES BY RISK CATEGORY**

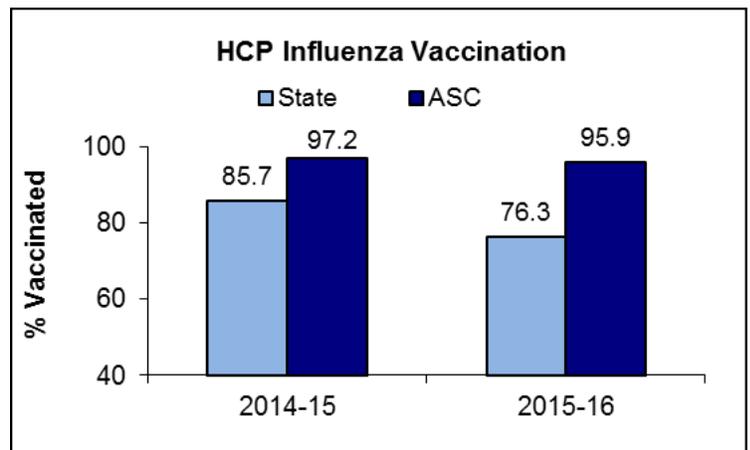
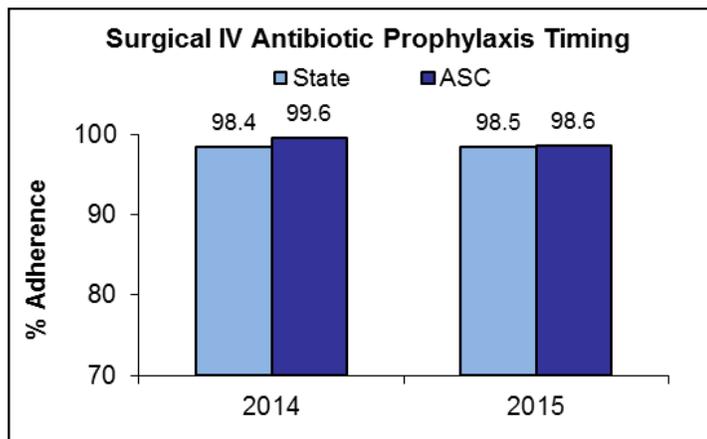
Risk Category	Infections	Procedures	ASC Rate	National Rate	P-Value	ASC Rate Compared to National Rate
Breast Procedures (BRST)						
Risk Category 0	-	-	-	-	-	-
Risk Category 1, 2, 3	-	-	-	-	-	-
Hernia Procedures (HER)						
Risk Category 0, 1	†	†	†	†	†	†
Risk Category 2, 3	-	-	-	-	-	-
Open Reduction of Fracture Procedures (FX)						
Risk Category 0, 1, 2, 3	†	†	†	†	†	†

†Data are not shown when fewer than 20 procedures were performed - Facility did not perform any procedures in this category in 2015

**PROCESS MEASURES**

Measure	Percent Adherence	State Percentage	Comparison to State Percentage
IV Antibiotic Prophylaxis Timing	98.6	98.5	Similar
	Percent Vaccinated	State Percentage	Comparison to State Percentage
HCP Influenza Vaccination	95.9	76.3	Higher

†Data are not shown when fewer than 20 orders of IV prophylaxis were made in 2015 - Facility did not provide IV prophylaxis in 2015



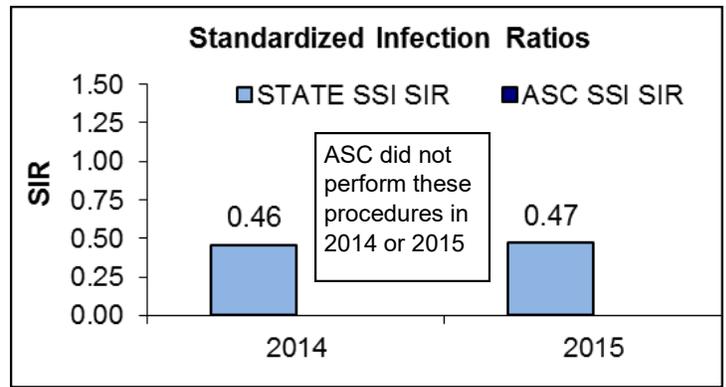
ASC: Ambulatory surgery center IV: Intravenous SSI: Surgical site infection  
 BRST: Breast procedures HER: Hernia procedures FX: Open reduction of fracture procedures



# WENTWORTH SURGERY CENTER

Somersworth, NH  
 For-profit  
 Free-standing  
 # of Procedures: 1,807

## 2015 HAI ASC DATA REPORT



### STANDARDIZED INFECTION RATIOS (SIR)

Measure	Observed Infections	Predicted Infections	Standardized Infection Ratio (SIR)	95% Confidence Interval	Comparison to Predicted
Overall SSI	Facility did not perform any of these procedures in 2015				

### PROCEDURE-SPECIFIC RATES BY RISK CATEGORY

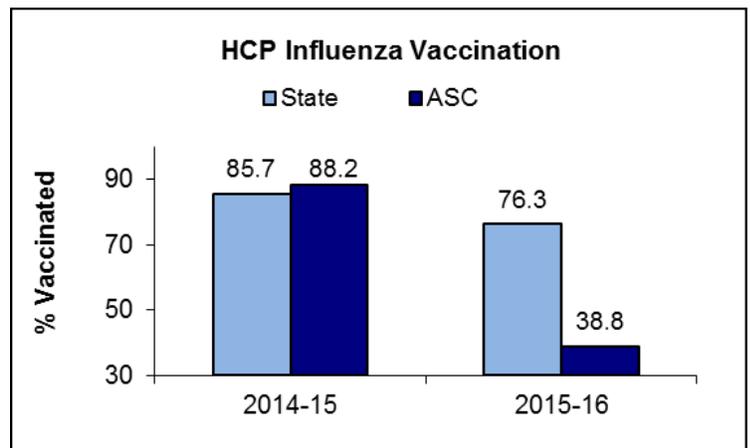
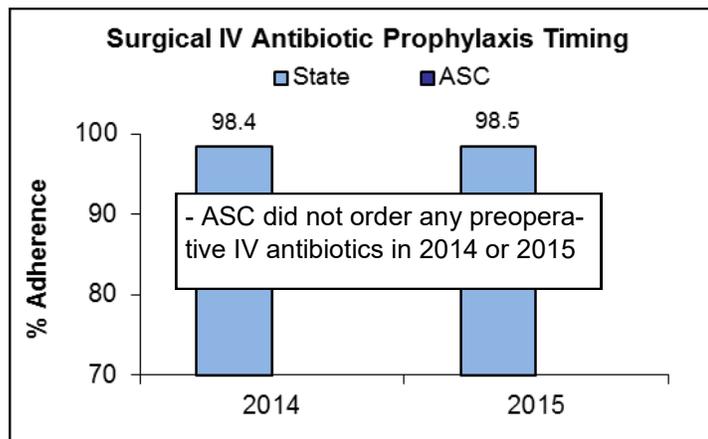
Risk Category	Infections	Procedures	ASC Rate	National Rate	P-Value	ASC Rate Compared to National Rate
Breast Procedures (BRST)						
Risk Category 0	-	-	-	-	-	-
Risk Category 1, 2, 3	-	-	-	-	-	-
Hernia Procedures (HER)						
Risk Category 0, 1	-	-	-	-	-	-
Risk Category 2, 3	-	-	-	-	-	-
Open Reduction of Fracture Procedures (FX)						
Risk Category 0, 1, 2, 3	-	-	-	-	-	-

†Data are not shown when fewer than 20 procedures were performed - Facility did not perform any procedures in this category in 2015

### PROCESS MEASURES

Measure	Percent Adherence	State Percentage	Comparison to State Percentage
IV Antibiotic Prophylaxis Timing	-	98.5	-
	Percent Vaccinated	State Percentage	Comparison to State Percentage
HCP Influenza Vaccination	38.8	76.3	Lower

†Data are not shown when fewer than 20 orders of IV prophylaxis were made in 2015 - Facility did not provide IV prophylaxis in 2015



ASC: Ambulatory surgery center IV: Intravenous SSI: Surgical site infection  
 BRST: Breast procedures HER: Hernia procedures FX: Open reduction of fracture procedures

## APPENDIX 1: Technical Notes

1. The majority of data in this report were extracted from NHSN on 8/19/2016; influenza vaccination data and surgical antimicrobial prophylaxis data were extracted from other data sources on the same date. Changes or new infections reported by ASC after this date are not reflected in this report.
2. The SSI national comparison data used in this report come from the 2009 NHSN Report. The 2009 NHSN report summarizes data reported to NHSN from 2006-2008. This report is available at: <http://www.cdc.gov/nhsn/PDFs/dataStat/2009NHSNReport.pdf>.
3. Rate data were risk-adjusted and were only presented if appropriately risk-adjusted as follows:
  - a. SSI: Rate data must be broken down by both type of procedure and risk category. Data can be aggregated only if the procedure and risk category are the same.
4. Rates for any grouping were not presented if data were insufficient to generate a stable rate.
  - a. SSI: There must be at least 20 procedures in the denominator to present a rate.
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 facility's true "population" data (e.g., all patients for all time), we use statistical procedures to estimate various measurements using "sample" data. Since estimates are variable, 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. Small sample sizes are more prone to fluctuations in the data.

### 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 were 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: The calculations for determining the 95% confidence interval for SIRs in this report are taken from: Liddell FD. Simple exact analysis of the standardised mortality ratio. *Journal of Epidemiology and Community Health*, 1984; 38:85-88. <sup>xii</sup>
  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 are 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 SSI rate and associated p-value: SSI rates are presented as the number of infections per 100 procedures.

$$\text{SSI rate} = (\text{number of infections} / \text{number of procedures}) \times 100$$

13. Interpreting a p-value: All ASC-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 ASC infection rates are similar or different to national infection rates. A p-value of <0.05 would indicate the ASC rate is significantly different than the national rate.
  - a. If the p-value is  $\geq 0.05$ , then the ASC rate would be considered statistically “Similar” to the national rate.
  - b. If the ASC rate is lower than the national rate and the p-value is <0.05, then the ASC rate would be considered significantly “Lower” than the national rate.
  - c. If the ASC rate is higher than the national rate and the p-value is <0.05, then the ASC rate would be considered significantly “Higher” than the national rate.

## Process Measure Percentages

14. 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.

$$\text{Influenza vaccination (\%)} = (\text{number of HCP vaccinated} / \text{total number of HCP}) \times 100$$

15. A. Calculating a surgical IV antimicrobial prophylaxis adherence percentage: Surgical IV antimicrobial prophylaxis adherence percentages are presented as the number of orders for which administration adhered to the measure divided by the total number of orders expressed as a percent.

$$\text{Surgical antimicrobial prophylaxis adherence (\%)} = (\text{number of orders administered on time} / \text{total number of orders}) \times 100$$

Note: Administrations of surgical antimicrobial prophylaxis recorded as having an interval of 0:00, 1:00, or 2:00 (for select antibiotics) between administration and procedure start were excluded from the analysis. This is because time in minutes, not seconds, from administration to procedure start are documented and it is impossible to determine if antibiotic was administered exactly within one or two hours (depending on the antibiotic).

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

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

17. Interpreting a proportion confidence interval for 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, ASC vs. State) are 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, 2015-2016 Season**

1. Background information (facility and survey respondent)
2. How many HCP worked or volunteered in your facility for at least one working day between October 1, 2015 and March 31, 2016?
3. How many HCP received a seasonal influenza vaccination (at your facility or elsewhere) for the 2015-16 season? Influenza vaccine for a given influenza season may be available as early as July or August. Include all immunized HCP that received the 2015-16 vaccine product, even if administered prior to October 1, 2016.
  - 3a. Total number of HCP immunized against influenza for the 2015-16 season:
  - 3b. Total number of HCP not immunized against influenza for the 2015-16 season:
4. Of the HCP not immunized against influenza for the 2015-16 influenza season, how many HCP did not receive the seasonal influenza vaccine for each of the following reasons (medical contraindications, religious, other (e.g., personal/philosophical), unknown)?
5. Does your facility have a seasonal influenza vaccination policy? Such a policy means that the facility requires all or some portion of HCP working at that facility to receive a seasonal influenza vaccine. If NO, skip to item 10.
  - 5a. Yes, there is a policy currently in place
  - 5b. No, but we are considering a policy
  - 5c. No, and we are not considering a policy
  - 5d. Other
6. If your facility has a seasonal influenza vaccination policy, what reasons for exemption are acceptable (medical, religious, personal/philosophical, other)? Check all that apply.
7. 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.
8. 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.
9. 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 2015-16 influenza season?
  - 9a. Terminated:
  - 9b. Temporarily suspended:
  - 9c. Resigned:
  - 9d. Dismissed permanently:
10. 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.<sup>xiii</sup> Several metrics are based on the science employed in NHSN. While national aggregate SSI data are published in the annual NHSN reports, these rates must be stratified by types of risk category and procedure-specific factors. This scientifically sound risk-adjustment strategy creates a practical challenge to summarizing this information nationally, regionally, or even for an individual healthcare facility.

A SIR can be used as an indirect standardization method for summarizing HAI experienced 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 SSI Rates			NHSN SSI Rates for Outpatient Breast Procedures (Standard Population)		
Procedure Risk Category	#SSI	#Breast Procedures	SSI Rate *	#SSI	#Breast Procedures	SSI Rate *
Risk Category 0	8	6,589	0.1	3	944	0.32
Risk Category 1-3	21	7,652	0.3	7	659	1.06
$\text{SIR} = \frac{\text{observed}}{\text{predicted}} = \frac{8 + 21}{6,589 \times \left(\frac{0.32}{100}\right) + 7,652 \times \left(\frac{1.06}{100}\right)} = \frac{29}{21 + 81} = \frac{29}{102} = 0.28 \quad 95\% \text{ CI} = (0.190, 0.408)$						

\* Defined as the number of SSI per 100 associated procedures

In the table above, there are two strata to illustrate risk-adjustment by risk category for which national data exist from NHSN. The SIR calculation is based on dividing the total number of observed SSI events by a “predicted” number using the SSI rates from the outpatient breast procedures. This “predicted” number is calculated by multiplying the national SSI rate from the standard population by the observed number of procedures for each stratum, which can also be understood as a prediction or projection. If the observed data represented a follow-up period, such as 2015, one would state that an SIR of 0.28 indicates that there were 72% fewer infections for the facility than were predicted.

The SIR concept and calculation is completely based on the underlying 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 NHSN. The SIR calculation methods differ in the risk group stratification only. See the following example data and SIR calculation.

Risk Group Stratifiers		Observed SSI Rates			NHSN SSI Rates for 2008 (Standard Population)		
Procedure Code	Risk Index Category	#SSI <sup>†</sup>	#Procedures	SSI Rate <sup>*</sup>	#SSI <sup>†</sup>	#Procedures	SSI Rate <sup>*</sup>
CBGB	1	315	12,600	2.5	2100	70,000	3.0
CBGB	2,3	210	7,000	3.0	1000	20,000	5.0
HPRO	1	111	7,400	1.5	1020	60,000	1.7
$\text{SIR} = \frac{\text{observed}}{\text{expected}} = \frac{315 + 210 + 111}{12600 \times \left(\frac{3.0}{100}\right) + 7000 \times \left(\frac{5.0}{100}\right) + 7400 \left(\frac{1.7}{100}\right)} = \frac{636}{378 + 350 + 125.8} = \frac{636}{853.8} = 0.74 \quad 95\% \text{ CI} = (0.649, 0.851)$							

<sup>†</sup> SSI: Surgical site infection      <sup>\*</sup> Defined as the number of deep incisional or organ/space SSI per 100 procedures      HPRO: Arthroplasty of hip  
 CBGB: Coronary artery bypass graft

This example uses SSI rate data stratified by procedure and risk index category. The SIR for this set of observed data is 0.74, which indicates there is a 26% reduction in the number of SSI events based on the baseline NHSN SSI rates as representing the standard population.

## **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 any 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 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 healthcare facility. If you do develop an infection at the healthcare facility, 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 Healthcare Facilities Can 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>.

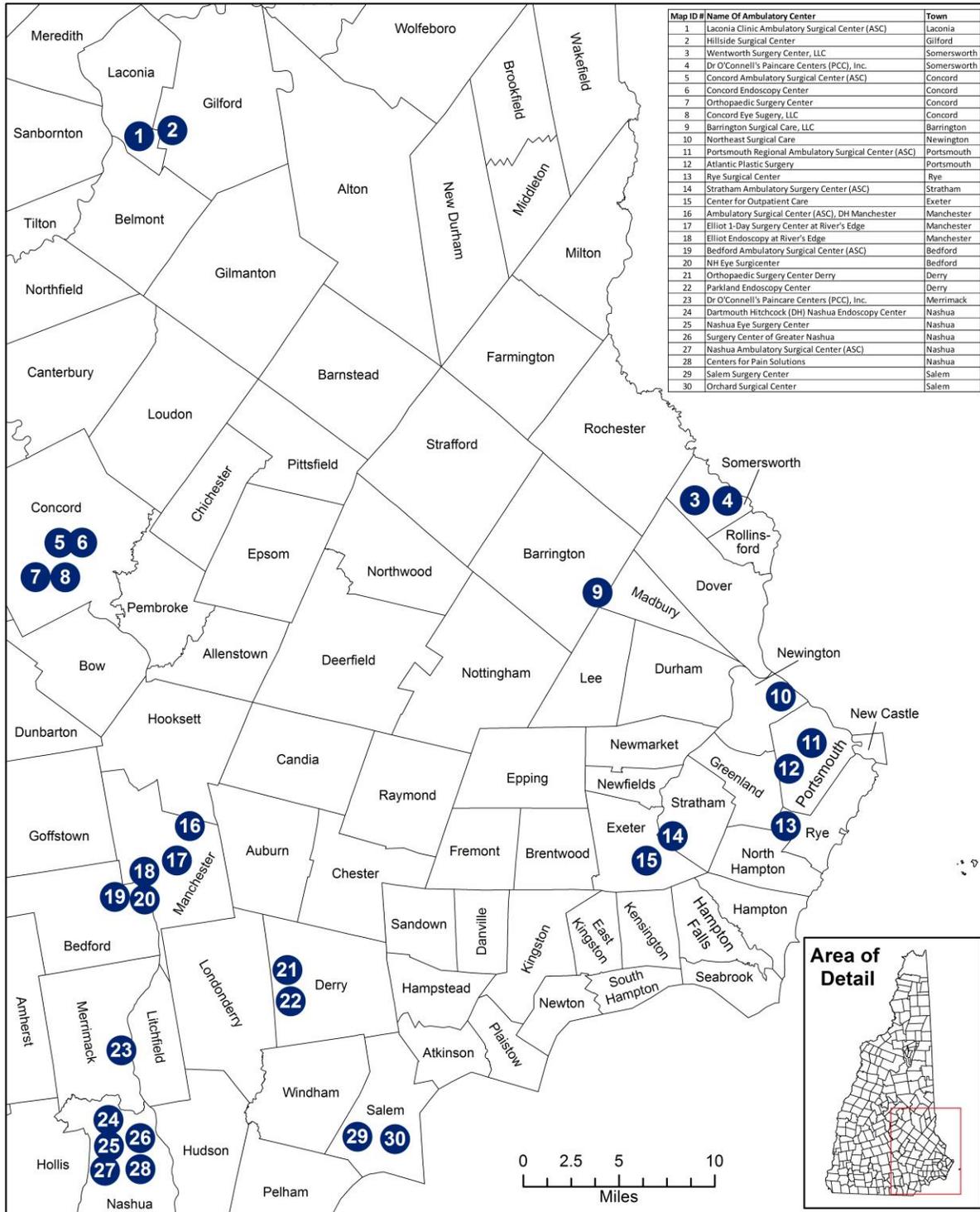
The Agency for Healthcare Quality and Research (AHRQ) has information for patients including care planning, diagnosis and treatment, and patient engagement. Visit their website at: <http://www.ahrq.gov/patients-consumers/index.html>.

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 Ambulatory Surgery Centers



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