

2013

Healthcare-Associated Infections In Alabama

Annual Report

Alabama Department of Public Health
201 Monroe Street

Montgomery, AL 36104

Phone: 334-206-5971

Toll Free: 1-800-338-8374

Web: www.adph.org/hai





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This report has been prepared by the Alabama Department of Public Health.

Healthcare-Associated Infections Program

Kelly Stevens, M.S., Epidemiology Division Director

Nadine Crawford, M.S.N., R.N., State Healthcare-Associated Infection Coordinator

Sherri Davidson, M.P.H., Analysis & Reporting Branch Manager

Kenya Dillard, M.P.H., Epidemiologist, HAI Report Data Analyst

Healthcare-Associated Infection Advisory Council

Chairman: Donald E. Williamson, M.D., State Health Officer

For a complete list of HAI Advisory Council members, please see Alabama Healthcare Data Advisory Council Members, pg. 50.



Executive Summary

Alabama hospitals began reporting infection measures to the Alabama Department of Public Health (ADPH) in 2011: catheter-associated urinary tract infections (CAUTI), central line-associated blood stream infections (CLABSI), surgical site infections (SSIs) associated with colon surgeries and abdominal hysterectomies. The legislation required use of the Centers for Disease Control and Prevention's (CDC) National Healthcare Safety Network (NHSN) for reporting; a secure internet-based surveillance system maintained by the CDC. Infection measure data is required to be reported to NHSN each month. This 2013 Annual Report highlights Alabama's third year of infection measure data.

In 2013, 89 facilities met the criteria required to report CAUTI data. Alabama's general, critical access and specialized hospitals reported 201CAUTIs associated with 183,259 catheter days (1.10 infections per 1,000 catheter days). This rate was a continued decrease from the previous two years: 1.68 in 2011 and 1.22 in 2012. The standardized infection ratio (SIR) in 2013 was 0.635; better (lower) than the national baseline and lower than the previous two years' SIRs: 0.959 in 2011 and 0.696 in 2012. These significant reductions demonstrate improvement towards the prevention of CAUTIs. Since 2011, there has also been a consistent decrease in the number of catheter days, which reduces the risk for CAUTIs. Using 95% confidence intervals, nine facilities were considered to have performed better than the national performance level in 2013. Four facilities performed below the national performance level, twice as many compared to the previous year.

In 2013, 127 CLABSIs associated with 120,765 central line days were reported by 72 Alabama hospitals that met the reporting criteria (1.05 per 1,000 central line days). This rate is an increase from 2012 when there were 110 CLABSIs associated with 115,203 central line days (0.95), but still better than 2011 when there were 145 CLABSIs associated with 118, 423 central line days in 2011 (1.22) There were also more central line days in 2013 than in 2011 or 2012. For CLABSIs, Alabama performed better compared to the national performance, with an SIR of 0.528. The 2013 SIR is lower than the SIR from 2011 but higher than the SIR from 2012 (0.623 and 0.478, respectively). In addition, ten hospitals performed better than the national performance compared to eight hospitals in 2012. None of the facilities had a statistically significantly higher number of infections compared to national performance.

Alabama hospitals reported 5,756 colon surgery procedures; 187 SSIs were associated with these procedures (3.25 per 100 procedures). The rate of infections per 100 procedures was lower than in 2012 (3.77) and in 2011 (4.34). Overall, Alabama performed better than national performance (SIR = 0.535) in 2013. Among the hospitals required to report HAIs, 72 facilities performed colon surgeries. Of these, 15 facilities had statistically significantly fewer infections compared to the national performance. In 2013, three hospitals had a statistically significantly higher infection ratio compared to national performance.

Sixty Alabama hospitals performed 7,023 abdominal hysterectomies in 2013. There were 71 surgical site infections associated with these hysterectomy procedures, resulting in an SIR of 0.571, a rate of 1.01



infections per 100 abdominal hysterectomies, and a performance comparison that was better than the national performance. Although there were more abdominal hysterectomies (7,603) in 2012, the rate of infections (0.89) and SIR (0.528) were better than in 2013. However, the 2013 rate and SIR are an improvement compared to 2011 data when the rate of infections was 1.11 and the SIR was 0.654. Four facilities had a statistically significantly lower SIR in 2013, compared to the national performance. One facility had statistically significantly more infections compared to the national average in 2013.



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Introduction

In an effort to combat HAIs, Alabama passed the Mike Denton Infection Reporting Act (SB98) on August 1, 2009, which requires the collection and reporting of certain HAI data by Alabama healthcare facilities. The Act designates the Alabama Department of Public Health (ADPH) as the agency responsible for the analysis of submitted data and created a Healthcare Data Advisory Council to assist with development of the HAI reporting and prevention program. This Infection Reporting Act makes provisions for the development of certain rules, regulations, and public reports comparing the HAI data.

Over the past decade, consumer demand for healthcare information, including data about the performance of healthcare providers, has increased. Many state and national initiatives are underway to mandate or encourage healthcare organizations to publicly disclose information regarding institutional performance. Mandatory public reporting of healthcare performance is intended to enable stakeholders, including consumers, to make more informed choices on health care issues.

Healthcare in Alabama continues to make significant progress towards infection prevention. So much so, it has been highlighted in CDC's Annual Progress Report of Healthcare-Associated Infections Nationally and Statewide; released March 26, 2014. The report provided state-by-state analysis on four categories of infections reported to CDC's infection database. Alabama was one of only two states in the nation performing better than the national infection ratio in three of four infection categories (No state performed better than the national baseline in all four infection categories).

Every year an estimated 1.7 million Americans develop a healthcare-associated infection (HAI) while hospitalized and 99,000 patients will die from an HAI, according to the CDC and the Department of Health and Human Services.^{1,2} These infections create a burden to the population in terms of morbidity and mortality, as well as a monetary burden. A 2009 CDC report estimated that the annual medical costs attributable to HAIs in U.S. Hospitals to be between \$35.7 and \$45 billion.

For more details regarding the Advisory Council members, the Alabama State HAI Action Plan, Alabama Reporting Prevention Program, Rules and Regulations, and NHSN visit http://www.ADPH.org/HAI.

Healthcare Facilities Defined

In accordance with the rules and regulations supporting the Mike Denton Infection Reporting Act, healthcare facilities are defined as general, critical access, and specialized hospitals, including pediatric hospitals but excluding psychiatric, rehabilitation, long-term care, and eye hospitals, licensed pursuant to Code of Ala. 1975, § 22-21-20. For a complete list of the healthcare facilities included in this report, please see Alabama General Critical Access Facilities.



Method of HAI Data Collection

An HAI is an infection that a patient acquires while in a healthcare setting that was not present or developing before the patient was admitted to the facility. For the purposes of HAI reporting in Alabama, an HAI must meet specific criteria defined in CDC's National Healthcare Safety Network (NHSN). The criterion provides objective criteria for classifying an infection as Healthcare-Associated or not.

NHSN is a secure, internet-based surveillance system which is used for the collection and reporting of HAI data by trained infection preventionists (IPs) or other trained NHSN Users at each healthcare facility in Alabama. The IPs and other NHSN Users are required to enter the HAI data into NHSN no later than the last day of the subsequent month. Each Alabama healthcare facility grants ADPH HAI program staff permission to view and analyze the designated HAI data using NHSN to compile reports for public reporting.

The HAI data required to be reported in NHSN for Alabama include surgical site infections (SSIs) associated with colon surgeries and abdominal hysterectomies, catheter-associated urinary tract infections (CAUTIs), and central line-associated bloodstream infections (CLABSIs).



¹ Division of Healthcare Quality Promotion, Coordinating Center for Infectious Diseases, Centers for Disease Control and Prevention (2009). The Direct Medical Costs of Healthcare-Associated Infections in U.S. Hospitals and the Benefits of Prevention. Scott, R. Douglas II. Retrieved on February 27, 2014 from http://www.cdc.gov/hai/pdfs/hai/scott_costpaper.pdf

² Agency for Healthcare Research and Quality (AHRQ). AHRQ's efforts to prevent and reduce health care-associated infections [fact sheet]. AHRQ Publication No. 09-P013, Rockville, MD: AHRQ; 2009 Sept. Available from: http://www.ahrq.gov/qual/haiflyer.htm

³ Scott, RD. The direct medical costs of healthcare-associated infections in U.S. hospitals and the benefits of prevention. 2009; 1-16.



Reporting Variables

Catheter-Associated Urinary Tract Infections (CAUTI)

An indwelling urethral catheter, also referred to as a Foley catheter, is a urine drainage tube that is connected to a closed drainage system (bag). The catheter is inserted into the bladder through the urethra for the collection of urine over a period of time.

A CAUTI is an infection associated with an indwelling urethral catheter. A CAUTI must be reported if it occurs in a symptomatic patient that has had an indwelling urethral catheter in place for greater than two calendar days before the onset of the UTI. During 2013, Alabama hospitals were required to report CAUTIs in medical wards, surgical wards, and medical/surgical wards. The HAI reporting rules were amended for 2013 to require reporting from mixed acuity wards and mixed age/mixed acuity wards for hospitals that do not have medical, surgical, or medical/surgical wards as defined in NHSN using the 80/20 rule. The 80/20 rule states: if 80% of the patients are one type of patient, then the unit may be classified as that type of unit. Hospitals are to report CAUTI data using the CDC NHSN.

Facilities report the number of patients per day (patient days) and the number of days patients have indwelling urethral catheters (catheter days) in the above facility locations using NHSN. The patient days and catheter days must be assessed at the same time each day; however, the time of day for collection is based on facility preference.

Central Line-Associated Bloodstream Infection (CLABSI)

A central line is a catheter that is inserted into one of the great (large) blood vessels that terminates (ends) near the heart. Central line catheters are used for the administration of fluids, medication, intravenous nutrition, hemodynamic monitoring, and drawing blood for laboratory testing.

A CLABSI is an infection that results from a central line catheter or umbilical catheter (if patient is less than one-year old). A CLABSI must be reported if it meets NHSN established criteria and occurs in a patient that has had a central line or umbilical catheter in place within two calendar days of laboratory confirmation of a bloodstream infection and the bloodstream infection is not caused by an infection at another site in the body. During 2013, CLABSIs attributed to medical intensive care units (ICU), surgical ICUs, medical/surgical ICUs, and pediatric ICUs were required to be reported using NHSN. Facilities reported the number of patients per day (patient days), and the number of patients per day with central lines (central line days) from the above locations. The patient days and central line days must be tallied at the same time each day; however, the time of day for collection is at the facility's discretion.

Surgical Site Infection (SSI)

An SSI is a procedure-associated HAI, resulting from an inpatient or outpatient surgery, during which an incision was made through the skin or mucous membranes. An SSI is reported if an infection occurs in a patient within 30 days of the operative procedure for specified procedures. ADPH only collects data on inpatient procedures, i.e., those in which the date of admission and date of discharge are different.



During 2013, SSIs resulting from inpatient colon surgeries or abdominal hysterectomies in an Alabama healthcare facility or post discharge were required to be reported using NHSN. Facilities were also required to report the number of colon surgeries and abdominal hysterectomies performed, along with



patient's pre-surgical medical status, length of surgery compared to similar surgeries, and the extent of the contamination of the surgical wound.

A colon surgery is a surgical procedure in which a portion of the colon or intestine is operated on, including incision, resection, or anastomosis (reconnection) of the large intestine. An abdominal hysterectomy is a surgical procedure in which the uterus is removed through an incision in the lower abdomen. It may include removal of one or both ovaries and/or the, fallopian tubes and may use laparoscopic or robotic surgical approaches.

Volume (Low, Medium, and High)

Volume for each facility was category specific and was based on the number of device days or the number of procedures performed. Low-volume consisted of hospitals whose device utilization days or procedure counts were within the lowest quartile (lowest 25%). Medium-volume consisted of hospitals whose device utilization days or procedure counts were in the second and third quartiles (middle 50%). And, the high-volume category consisted of hospitals whose device utilization days or procedure counts were in the highest quartile (highest 25%).



Accuracy in HAI Reporting

ADPH Data Validation Program

Background: The Mike Denton Infection Reporting Act assigned the Alabama Department of Public Health (ADPH) the responsibility and authority to evaluate the quality and accuracy of HAI reporting. As required in the law, the Healthcare Data Advisory Council was established to advise the Department regarding public reporting of HAIs. The Advisory Council agreed that validation of each healthcare facility's individual surveillance program was necessary to ensure that accurate data is presented to the public. Validation ensures that a program operates on correct and useful data.

Purpose: The purpose of the ADPH validation process is to:

- 1. Foster understanding of reporting expectations.
- 2. Improve reporting accuracy.
- 3. Provide opportunity for improving surveillance methods/resources.
- 4. Provide opportunity to correct errors prior to public report.
- 5. Identify system issues affecting accurate reporting.
- 6. Engage/compel internal communication.
- 7. Minimize hospital reporting misconceptions.
- 8. Provide an educational opportunity, not a regulatory visit (regulatory visits will be limited to willful and intentional failure to report).

Methods: A variety of methods were utilized to validate the different aspects of the reporting program. These methods included but were not limited to:

- Verified that all Facility Administrators (FA) completed the minimal required NHSN and ADPH training.
- 2. Ensured each facility granted ADPH permission to view the data, i.e., conferred rights.
- 3. Reviewed Monthly Plans for each facility.
- 4. Notified NHSN FA of noted discrepancies for correction.

Reporting Validation: This procedure was performed for each facility, for each HAI category that is required to be reported.

- A biannual report of NHSN data for each facility was provided to facilities to identify discrepancies.
- 2. Monthly data submitted was reviewed for consistency and completeness.
- 3. Facilities were notified through e-mail or phone regarding missing, inconsistent, or duplicate data for the review period.
- 4. The facility had 45 days to verify the data and make corrections if needed.





Site Visits: Site visits were made at the facility's request, for repeated errors, or to ensure a variety of hospitals were included, geographically and by volume. The site visit consisted of three components:

- 1. Validate HAIs met the case criteria (case finding, laboratory notification, and data mining).
- 2. Assess whether the Infection Preventionist (IP) applied the NHSN definitions accurately.
- 3. Ensure cases are detected and whether NHSN definitions are applied correctly. (Sensitivity and specificity of data).

Each hospital's infection surveillance program records and the NHSN line listing for the review period were the main information sources used in this portion of the validation process. Laboratory results and data mining results, in some cases, were also incorporated. Facility representatives were debriefed at the end of the visit.

In 2014, the State HAI Coordinator visited 19 facilities as part of the CAUTI validation in all seven of the Alabama Hospital Association (AlaHA) regions of the state (Birmingham, Central, North, Northeast, Southeast, Southwest, and West), which were comprised of low, medium, and high-volume hospitals. Prior to the scheduled visit, the State HAI Coordinator asked the Infection Preventionist (IP) for each facility to generate a positive urine culture line list for the calendar year 2013 (January 1 - December 31, 2013). Using the positive urine culture line list, five patient charts were selected for review at each of the 19 facilities for a total of 95 audited charts. These 95 audited charts represented patients hospitalized on various location types or units: 6 medical (6.3%), 52 medical-surgical (54.7%), 2 surgical (2.1%), 28 intensive/critical care (29.5%), 3 step-down (3.2%), 2 long-term care (2.1%), 1 labor and delivery (1%), and 1 psychiatric (1%).

The charts assessed for accurate application of NHSN key terms, definitions, and CAUTI criteria revealed that most IPs accurately applied NHSN key terms, definitions, and the CAUTI criteria: 93 of 95 events accurately categorized as CAUTI or non-CAUTI events, and NHSN key terms and definitions accurately applied during determination of events (97.9%). Only two events (2.1%) were inaccurately categorized as CAUTI or non-CAUTI events. In the two inaccurately categorized events, one IP misunderstood the NHSN definition of "present on admission (POA)", causing the IP to incorrectly categorize the event as a non-CAUTI, while the other IP incorrectly categorized an event as a CAUTI by failing to ensure that all elements of the CAUTI criteria were met without exceeding the one-day gap rule as stated in the NHSN CAUTI criteria.

During the 19 visits, each IP was asked whether their facility had an established internal validation process and to briefly describe the process. Fourteen IPs (73.7%) were able to describe some component of an appropriate internal validation process; while five IPs (26.3%) denied having an established internal validation process to ensure the accuracy of HAI data entered into the NHSN surveillance system. The State HAI Coordinator verbally provided results to each facility and additional on-site education to each facility with educational deficits. The State HAI Coordinator shared the educational issues identified during the validation site visits with the Project Supervisor of the Alabama Quality Assurance Foundation (AQAF) to ensure the development and implementation of educational materials to address the educational needs of the IPs. The State HAI Coordinator also asked the AQAF Project Supervisor to revise the NHSN training course to include key elements needed to establish an adequate internal review process to ensure the accuracy of facility level HAI data entered into the NHSN surveillance system.



Performance Measurement

Minimal Reporting Thresholds

Alabama healthcare facilities that perform low numbers of surgical procedures, or insert few central lines or indwelling urinary catheters may have infection rates that appear high or low only because of the number of cases performed.

To decrease the risk of unfairly comparing healthcare facility ratios, the Healthcare Data Advisory Council adopted CDC's NHSN minimum thresholds used in their Annual National HAI Report. The minimum thresholds indicate that SIRs, the comparison measure used for the report, will only be calculated if the predicted number of infections, based on the individual facility's volume of procedures or device days, the facility's locations, and the national comparison rates, are greater than or equal to one. For example, if a healthcare facility only performs two colon surgeries in a year and one of results in an SSI, the facility's colon SSI rate would be 50%. However, a similar facility which performs two colon surgeries in a year with neither resulting in an SSI, the SSI rate would be 0%.

Risk Adjustment

To ensure the process of determining a facility's performance compared to other facilities nationwide, statistical risk stratification was necessary. Risk stratification avoids penalizing facilities for performing procedures, or utilizing catheters or central lines, in patients that may carry higher risk of infection or complications. For CAUTI and CLABSI surveillance, facility locations or ward types (e.g., surgical ICU) are used in adjusting the predicted number of infections. For procedures, the patient's pre-surgical medical status, length of surgery compared to similar surgeries, and the extent of the contamination of the surgical wound are taken into account for risk adjustment. For SSIs, logistic regression models are used by NHSN to calculate the risk adjustment.

Standardized Infection Ratio

To compare a facility to other facilities nationally, the SIR is used. The SIR is the number of infections the facility reported, divided by the number of infections that were predicted based on national averages. The predicted number of infections is determined by taking into account the "risk" of the event, and the number of events that occurred (e.g., the number of central line days).

$$SIR = \frac{observed}{predicted}$$

- When an SIR is equal to one (1.0), the number of observed events is the same as the number predicted.
- When the SIR is greater than one (> 1.0), the number of observed events is more than the number predicted, i.e., there were more observed events than were predicted.
- When the SIR is less than one (< 1.0), the number of observed events is less than the number predicted, i.e., there were fewer observed events than were predicted.



Note: The SIR is only calculated if the predicted number is greater than or equal to one (1). Predicted numbers less than one indicate too few procedures or device days to calculate a precise SIR and comparative statistics.

For more information regarding SIRs, please visit http://www.cdc.gov/nhsn/PDFs/Newsletters/NHSN_NL_OCT_2010SE_final.pdf.

Hospital Performance Compared to National

A facility's "performance compared to the national performance" is determined by evaluating the 95% confidence interval of the SIR. NHSN uses the data from 2006-2008 as the baseline reference for the national performance (Alabama facilities, for the most part, were not reporting to NHSN during this reference period). If the confidence interval range for the SIR includes 1.0, then the facility's SIR is considered to be "Similar" to the national average because it is not statistically different than the national average. If the facility's infection rate was the same as the national rate, the SIR would equal 1.0. Facilities that show a statistically significantly greater number of infections will be considered "Worse" (i.e., the full range of the confidence interval is above 1.0 which means we are 95% confident that the facility's rate is actually higher than the national rate). Facilities that show a statistically significantly fewer number of infections will be considered "Better."

Performances which are worse than the national performance indicate a greater risk of infection compared to the risk at hospitals across the nation. Performances which are better than the national performance indicate a lower risk of infection compared to hospitals across the nation. These are based on a 95% confidence interval.

Note: Because the performance comparison is based on the observed number of infections per location/ward type, the predicted number of infections by location/ward type, and the 95% confidence interval for the SIR, occasionally two facilities that may appear to have similar volumes and similar SIRs are classified differently, like 'similar' and 'not statistically different' than the national performance. The difference is because the predicted number of infections and the width of the confidence intervals are dependent on the variety of locations/wards included in the evaluation at each facility.



HAI Data, Statewide

In 2013, 89 Alabama hospitals reported 201 catheter-associated urinary tract infections in general, critical access, and specialized hospitals. The SIR (0.635) was considered to be better than the national performance.

Stratifying by hospital volume did not change the comparison to the national performance rating; low, medium, and high-volume hospitals performed better than the national level.

| Catheter-Associated Urinary Tract Infections | | | | | | | |
|---|----------------------------|--------------------|--|--------|--|--|--|
| | Number of Catheter Days | Number of CAUTI | Hospital Performance 2013 Compared to National Performance 2006-2008 | | | | |
| Alabama-89 Hospitals | 183,259 | 201 | 0.635 | Better | | | |
| | | | | | | | |
| Low-Volume Hospitals (less than 538 catheter days) | 6,804 | 1 | 0.102 | Better | | | |
| Medium-Volume Hospitals (538-3, 294 catheter days) | 58,946 | 67 | 0.672 | Better | | | |
| High-Volume Hospitals (more than 3,294 catheter days) | 117,509 | 133 | 0.642 | Better | | | |

Data pulled: March 19, 2014

In 2013, Alabama hospitals reported 127 CLABSIs and 120,765 central line days. Alabama had a performance of better when compared to the national performance level, with an SIR of 0.528. Stratification by volume shows that low-volume hospitals did not have any CLABSIs associated with their 126 central line days. Medium-volume hospitals were no longer significantly better than the national performance. Alabama's high-volume hospitals with more than 2,291 central line days performed better than national when compared collectively.



| Central Line-Associated Blood Stream Infections | | | | | | | |
|--|-----------------------------------|---------------------|---|--|--|--|--|
| | Number of Central Line Days | Number of CLABSI | Ratio of Actual to Predicted Infections (SIR) | Hospital Performance 2013 Compared to National Performance 2006-2008 | | | |
| Alabama-72 Hospitals | 120,765 | 127 | 0.528 | Better | | | |
| | | | | | | | |
| Low-Volume Hospitals (less than 126 central line days) | 990 | 0 | 0 | Similar | | | |
| Medium-Volume Hospitals (126-2,291 central line days) | 32,007 | 43 | 0.751 | Similar | | | |
| High-Volume Hospitals (more than 2,291 central line days) | 87,775 | 84 | 0.459 | Better | | | |

Data pulled: March 6, 2014

Alabama hospitals performed 5,756 colon surgery procedures. One hundred eighty-seven surgical site infections associated with these procedures were reported. Overall, Alabama had fewer infections compared to the national average.

| Surgical Site Infections Associated with Colon Surgeries | | | | | | | |
|--|-------------------------|------------------|---|--|--|--|--|
| | Number of Procedures | Number of SSI | Ratio of Actual to Predicted Infections (SIR) | Hospital Performance 2013 Compared to National Performance 2006-2008 | | | |
| Alabama-72 Hospitals | 5,756 | 187 | 0.535 | Better | | | |
| | | | | | | | |
| Low-Volume Hospitals (less than 11 procedures) | 101 | 6 | 0.969 | Similar | | | |
| Medium-Volume Hospitals (11-127 procedures) | 1,825 | 69 | 0.646 | Better | | | |
| High-Volume Hospitals (more than 127 procedures) | 3,829 | 112 | 0.469 | Better | | | |

Data pulled: February 28, 2014

Alabama hospitals reported 71 surgical site infections associated with abdominal hysterectomy procedures, resulting in a SIR of 0.571, better than national performance. Three infections were associated with the 154 procedures performed by Alabama's low-volume hospitals. Medium and high-volume hospitals performed better than predicted showing statistically significantly fewer infections compared to the national averages.



| Surgical Site Infections Associated with Abdominal Hysterectomies | | | | | | | |
|---|-------------------------|------------------|---|--|--|--|--|
| | Number of Procedures | Number of SSI | Ratio of Actual to Predicted Infections (SIR) | Hospital Performance 2013 Compared to National Performance 2006-2008 | | | |
| Alabama-60 Hospitals | 7,023 | 71 | 0.571 | Better | | | |
| | | | | | | | |
| Low-Volume Hospitals (less than 17 procedures) | 154 | 3 | 0.724 | Similar | | | |
| Medium-Volume Hospitals (17-115 procedures) | 1,429 | 23 | 0.756 | Similar | | | |
| High-Volume Hospitals (more than 115 procedures) | 5,440 | 45 | 0.495 | Better | | | |

Data pulled: February 28, 2014



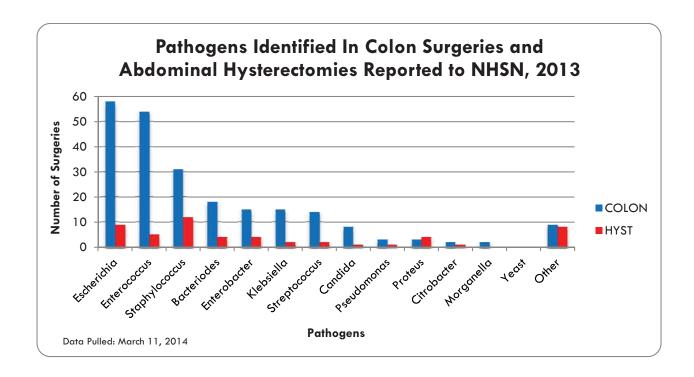
Pathogens Involved in Surgical Site Infections, 2013

Despite the burden of HAls in the state of Alabama and the growth of antibiotic drug resistant pathogens, most HAls are preventable. Alabama healthcare facilities, reporting through NHSN, have made great strides in reducing the incidence of HAls. Collectively, hospitals experienced an 11.8% decrease in the number of pathogens identified from surgical site infections from 2012 to 2013.

Escherichia species were the most common pathogens identified in colon surgical site infections, whereas last year Enterococcus species were the most commonly identified pathogen. Pathogens were identified in 187 colon surgeries. Escherichia species accounted for 58 of 232 (24.8%) identified pathogens among colon surgeries in 2013, compared to 46 of 254 (18.1%) in 2012. Enterococcus species were identified in 23% and Staphylococcus 13% in 2013, compared to 22 % and 14%, respectively of colon surgery SSIs in 2012.

Additionally, pathogens were identified in 71 abdominal hysterectomies. For abdominal hysterectomy infections, *Staphylococcus* species accounted for 12 of 53 (22.6%) identified pathogens among abdominal hysterectomies in 2013, compared to 17 of 69 (24.6%) in 2012; the most common pathogen among abdominal hysterectomies. *Escherichia* species were the second most commonly reported (17%) group of pathogens identified.

Pathogens identified within the "other" group largely consisted of several types of prevotella, clostridium, and diphtheroids species.





HAI Data, Hospital Specific

The following tables list individual hospital performance in each of the four infection measures: CAUTI (pages 19-25), CLABSI (pages 26-32), Colon Surgery SSI (pages 33-39), and Abdominal Hysterectomy SSI (pages 40-46). The hospitals are arranged by geographical region in which the hospital is located. The region boundary is designated by the AlaHA regions. Hospitals are then grouped by number of device days or procedures performed.

HAI Reporting Regions





BIRMINGHAM REGION

Alabama Catheter-Associated Urinary Tract Infections (CAUTI) January 1, 2013-December 31, 2013

CAUTI Locations: General medical, surgical, and medical/surgical wards, or mixed age and mixed acuity wards for facilities without general medical or surgical wards.

| Hospital Name | Number of Catheter Days | Number of CAUTI | Ratio of Actual to Predicted Infections (SIR) | Hospital Performance 2013 Compared to National Performance 2006-2008 | | |
|---|-------------------------------|--------------------|---|--|--|--|
| Low-Volume Hospitals (fewer than 538 catheter days) | | | | | | |
| St. Vincent's Blount | 268 | 1 | 2.332 | N/A | | |
| Medium-Volume Hospitals (538-3,294 catheter days) | | | | | | |
| Brookwood Medical Center | 1,514 | 4 | 1.439 | Similar | | |
| Medical West | 2,390 | 3 | 0.680 | Similar | | |
| St. Vincent's St. Clair | 1,134 | 1 | 0.464 | Similar | | |
| Trinity Medical Center | 1,155 | 4 | 2.165 | Similar | | |
| High-Volume | Hospitals (mo | re than 3,294 | catheter days) | | | |
| Princeton Baptist Medical Center | 8,074 | 8 | 0.530 | Similar | | |
| Shelby Baptist Medical Center | 5,241 | 5 | 0.596 | Similar | | |
| St. Vincent's Hospital Birmingham | 7,889 | 6 | 0.408 | Better | | |
| St. Vincent's East | 4,138 | 2 | 0.302 | Better | | |
| University of Alabama Birmingham Hospital | 3,401 | 4 | 0.686 | Similar | | |
| Walker Baptist Medical Center | 3,422 | 3 | 0.501 | Similar | | |

Data pulled: March 19, 2014

N/A: Hospital submitted data though number of catheter days was too few for national performance comparisons to be accurately calculated.

Catheter days: The sum of patients per day with an indwelling catheter in general medical, surgical, and medical/surgical wards, or mixed age and mixed age/mixed acuity wards for facilities without general medical or surgical wards.

CAUTI: Urinary tract infections resulting from indwelling catheters.

SIR: The standardized infection ratio is the ratio of observed infections to predicted infections based on the accumulated risks of the locations (based on national data).

Better: Indicates a facility that has statistically, significantly fewer infections compared to national averages (based on a 95% confidence interval).

Similar: Indicates a facility that does not have statistically, significantly different infections compared to national averages (based on a 95% confidence interval).





CENTRAL REGION

Alabama Catheter-Associated Urinary Tract Infections (CAUTI)
January 1, 2013-December 31, 2013

CAUTI Locations: General medical, surgical, and medical/surgical wards, or mixed age and mixed acuity wards for facilities without general medical or surgical wards.

| Hospital Name | Number of Catheter Days | Number of CAUTI | Ratio of Actual to Predicted Infections (SIR) | Hospital Performance 2013 Compared to National Performance 2006-2008 | | | |
|---|-------------------------------|--------------------|---|--|--|--|--|
| Low-Volume Hospitals (fewer than 538 catheter days) | | | | | | | |
| Bullock County Hospital | 231 | 0 | 0 | N/A | | | |
| Crenshaw Community Hospital | 287 | 0 | 0 | N/A | | | |
| Elmore Community Hospital* | 132 | 0 | 0 | N/A* | | | |
| Georgiana Hospital | 215 | 0 | 0 | N/A | | | |
| Lake Martin Community Hospital | 335 | 0 | 0 | N/A | | | |
| LV Stabler Memorial Hospital | 316 | 0 | 0 | N/A | | | |
| Medium | n-Volume Hospi | itals (538-3,29 | 4 catheter days) | | | | |
| Baptist Medical Center South | 3,294 | 3 | 0.487 | Similar | | | |
| Community Hospital | 821 | 0 | 0 | Similar | | | |
| East Alabama Medical Center-Lanier | 1,086 | 1 | 0.485 | Similar | | | |
| Jack Hughston Memorial Hospital* | 901 | 0 | 0 | N/A* | | | |
| Prattville Baptist Hospital | 1,594 | 1 | 0.392 | Similar | | | |
| Vaughan Regional Medical Center | 2,818 | 2 | 0.444 | Similar | | | |
| High-Volu | ıme Hospitals (| more than 3,2 | 94 catheter days) | | | | |
| Baptist Medical Center East | 3,352 | 2 | 0.319 | Similar | | | |
| East Alabama Medical Center | 3,423 | 4 | 0.688 | Similar | | | |
| Jackson Hospital & Clinic | 5,263 | 5 | 0.594 | Similar | | | |
| Russell Medical Center | 5,839 | 2 | 0.214 | Better | | | |

Data pulled: March 19, 2014

N/A: Hospital submitted data though number of catheter days was too few for national performance comparisons to be accurately

Catheter days: The sum of patients per day with an indwelling catheter in general medical, surgical, and medical/surgical wards, or mixed age and mixed age/mixed acuity wards for facilities without general medical or surgical wards.

CAUTI: Urinary tract infections resulting from indwelling catheters.

SIR: The standardized infection ratio is the ratio of observed infections to predicted infections based on the accumulated risks of the locations (based on national data).

Better: Indicates a facility that has statistically, significantly fewer infections compared to national averages (based on a 95% confidence interval).

Similar: Indicates a facility that does not have statistically, significantly different infections compared to national averages (based on a 95% confidence interval).

Worse: Indicates a facility that has statistically, significantly more infections compared to national averages (based on a 95% confidence interval).

* Facility's data includes mixed acuity locations during 2013; SIRs are not available for locations with mixed acuity locations because the National Comparison data is not available.





NORTH REGION

Alabama Catheter-Associated Urinary Tract Infections (CAUTI)

January 1, 2013-December 31, 2013

CAUTI Locations: General medical, surgical, and medical/surgical wards, or mixed age and mixed acuity wards for facilities without general medical or surgical wards.

| Hospital Name | Number of Catheter Days | Number of CAUTI | Ratio of Actual to Predicted Infections (SIR) | Hospital Performance 2013 Compared to National Performance 2006-2008 |
|---|-------------------------------|--------------------|---|--|
| Low-Volum | e Hospitals (fev | ver than 538 o | catheter days) | |
| North Mississippi Medical Center-Hamilton | 496 | 0 | 0 | N/A |
| Red Bay Hospital | 291 | 0 | 0 | N/A |
| Medium-V | olume Hospital | s (538-3,294 c | atheter days) | |
| Athens Limestone Hospital | 2,320 | 1 | 0.246 | Similar |
| Decatur Morgan Hospital-Parkway Campus | 864 | 0 | 0 | Similar |
| Highlands Medical Center | 1,866 | 7 | 2.023 | Similar |
| Lakeland Community Hospital | 690 | 0 | 0 | Similar |
| Lawrence Medical Center | 669 | 0 | 0 | Similar |
| Marshall Medical Center North | 2,280 | 2 | 0.548 | Similar |
| Marshall Medical Center South | 1,649 | 2 | 0.703 | Similar |
| Russellville Hospital | 1,048 | 2 | 1.165 | Similar |
| Shoals Hospital | 1,265 | 4 | 1.664 | Similar |
| High-Volum | e Hospitals (mo | re than 3,294 | catheter days) | |
| Crestwood Medical Center | 3,827 | 3 | 0.420 | Similar |
| Cullman Regional Medical Center | 4,556 | 1 | 0.118 | Better |
| Decatur Morgan Hospital-Decatur Campus | 4,534 | 1 | 0.128 | Better |
| Eliza Coffee Memorial Hospital | 4,438 | 0 | 0 | Better |
| Helen Keller Hospital | 5,102 | 0 | 0 | Better |
| Huntsville Hospital | 7,176 | 21 | 1.582 | Worse |

Data pulled: March 19, 2014

N/A: Hospital submitted data though number of catheter days was too few for national performance comparisons to be accurately calculated.

Catheter days: The sum of patients per day with an indwelling catheter in general medical, surgical, and medical/surgical wards, or mixed age and mixed age/mixed acuity wards for facilities without general medical or surgical wards.

CAUTI: Urinary tract infections resulting from indwelling catheters.

SIR: The standardized infection ratio is the ratio of observed infections to predicted infections based on the accumulated risks of the locations (based on national data).

Better: Indicates a facility that has statistically, significantly fewer infections compared to national averages (based on a 95% confidence interval).

Similar: Indicates a facility that does not have statistically, significantly different infections compared to national averages (based on a 95% confidence interval).



NORTHEAST REGION

Alabama Catheter-Associated Urinary Tract Infections (CAUTI) January 1, 2013-December 31, 2013

CAUTI Locations: General medical, surgical, and medical/surgical wards, or mixed age and mixed acuity wards for facilities without general medical or surgical wards.

| Hospital Name | Number of Catheter Days | Number of CAUTI | Ratio of Actual to Predicted Infections (SIR) | Hospital Performance 2013 Compared to National Performance 2006-2008 | | |
|---|---|--------------------|---|--|--|--|
| Low-Volum | e Hospitals (few | er than 538 ca | atheter days) | | | |
| Cherokee Medical Center* | 153 | 0 | 0 | N/A* | | |
| Clay County Hospital | 401 | 0 | 0 | N/A | | |
| Regional Medical Center-Jacksonville | 454 | 0 | 0 | N/A | | |
| Medium-Volume Hospitals (538-3,294 catheter days) | | | | | | |
| Citizens Baptist Medical Center | 594 | 0 | 0 | N/A | | |
| Coosa Valley Medical Center | 1,439 | 0 | 0 | Similar | | |
| DeKalb Regional Medical Center | 1,566 | 0 | 0 | Similar | | |
| Northeast Alabama Regional Medical Center | 3,092 | 2 | 0.351 | Similar | | |
| Stringfellow Memorial Hospital | 1,119 | 1 | 0.559 | Similar | | |
| Wedowee Hospital | 670 | 0 | 0 | Similar | | |
| High-Volum | High-Volume Hospitals (more than 3,294 catheter days) | | | | | |
| Gadsden Regional Medical Center | 6,462 | 5 | 0.460 | Similar | | |
| Riverview Regional Medical Center | 3,400 | 2 | 0.343 | Similar | | |

Data pulled: March 19, 2014

N/A: Hospital submitted data though number of catheter days was too few for national performance comparisons to be accurately calculated.

Catheter days: The sum of patients per day with an indwelling catheter in general medical, surgical, and medical/surgical wards, or mixed age and mixed age/mixed acuity wards for facilities without general medical or surgical wards.

CAUTI: Urinary tract infections resulting from indwelling catheters.

SIR: The standardized infection ratio is the ratio of observed infections to predicted infections based on the accumulated risks of the locations (based on national data).

Better: Indicates a facility that has statistically, significantly fewer infections compared to national averages (based on a 95% confidence interval).

Similar: Indicates a facility that does not have statistically, significantly different infections compared to national averages (based on a 95% confidence interval).

Worse: Indicates a facility that has statistically, significantly more infections compared to national averages (based on a 95% confidence interval).

* Facility's data includes mixed acuity locations during 2013; SIRs are not available for locations with mixed acuity locations because the National Comparison data is not available.





SOUTHEAST REGION

Alabama Catheter-Associated Urinary Tract Infections (CAUTI)

January 1, 2013-December 31, 2013

CAUTI Locations: General medical, surgical, and medical/surgical wards, or mixed age and mixed acuity wards for facilities without general medical or surgical wards.

| Hospital Name | Number of Catheter Days | Number of CAUTI | Ratio of Actual to Predicted Infections (SIR) | Hospital Performance 2013 Compared to National Performance 2006-2008 | | |
|---|-------------------------------|--------------------|---|--|--|--|
| Low-Volume Hospitals (fewer than 538 catheter days) | | | | | | |
| Wiregrass Medical Center | 431 | 0 | 0 | N/A | | |
| Medium-Volume Hospitals (538-3,294 catheter days) | | | | | | |
| Andalusia Regional Hospital | 708 | 0 | 0 | Similar | | |
| Dale Medical Center | 1,330 | 0 | 0 | Similar | | |
| Medical Center Barbour | 745 | 0 | 0 | Similar | | |
| Medical Center Enterprise | 1,342 | 0 | 0 | Similar | | |
| Mizell Memorial Hospital | 550 | 0 | 0 | Similar | | |
| Southeast Alabama Medical Center | 2,522 | 3 | 0.626 | Similar | | |
| Troy Regional Medical Center | 553 | 0 | 0 | N/A | | |
| High- | Volume Hospita | ls (more than 3 | 3,294 catheter days |) | | |
| Flowers Hospital | 4,034 | 5 | 0.666 | Similar | | |
| | | | | | | |

Data pulled: March 19, 2014

N/A: Hospital submitted data though number of catheter days was too few for national performance comparisons to be accurately calculated.

Catheter days: The sum of patients per day with an indwelling catheter in general medical, surgical, and medical/surgical wards, or mixed age and mixed age/mixed acuity wards for facilities without general medical or surgical wards.

CAUTI: Urinary tract infections resulting from indwelling catheters.

SIR: The standardized infection ratio is the ratio of observed infections to predicted infections based on the accumulated risks of the locations (based on national data).

Better: Indicates a facility that has statistically, significantly fewer infections compared to national averages (based on a 95% confidence interval).

Similar: Indicates a facility that does not have statistically, significantly different infections compared to national averages (based on a 95% confidence interval).





SOUTHWEST REGION

Alabama Catheter-Associated Urinary Tract Infections (CAUTI)
January 1, 2013-December 31, 2013

CAUTI Locations: General medical, surgical, and medical/surgical wards, or mixed age and mixed acuity wards for facilities without general medical or surgical wards.

| Hospital Name | Number of Catheter Days | Number of CAUTI | Ratio of Actual to Predicted Infections (SIR) | Hospital Performance 2013 Compared to National Performance 2006-2008 | |
|---|-------------------------------|--------------------|---|--|--|
| Low-Volum | theter days) | | | | |
| Evergreen Medical Center | 412 | 0 | 0 | N/A | |
| Grove Hill Memorial Hospital* | 368 | 0 | 0 | N/A* | |
| Jackson Medical Center | 149 | 0 | 0 | N/A | |
| J. Paul Jones Hospital | 198 | 0 | 0 | N/A | |
| Monroe County Hospital | 235 | 0 | 0 | N/A | |
| Washington County Hospital* | 360 | 0 | 0 | N/A* | |
| Medium-V | olume Hospitals | (538-3,294 ca | theter days) | | |
| Atmore Community Hospital | 572 | 1 | 1.093 | N/A | |
| D.W. McMillan Memorial Hospital | 715 | 1 | 0.874 | Similar | |
| North Baldwin Infirmary | 538 | 0 | 0 | Similar | |
| South Baldwin Regional Medical Center | 2,458 | 0 | 0 | Better | |
| Springhill Medical Center | 1,233 | 4 | 2.028 | Similar | |
| Thomas Hospital | 2,462 | 2 | 0.469 | Similar | |
| University of South Alabama Medical Center | 2,512 | 14 | 3.483 | Worse | |
| High-Volume Hospitals (more than 3,294 catheter days) | | | | | |
| Mobile Infirmary Medical Center | 4,796 | 22 | 2.524 | Worse | |
| Providence Hospital | 7,133 | 3 | 0.253 | Better | |

Data pulled: March 19, 2014

N/A: Hospital submitted data though number of catheter days was too few for national performance comparisons to be accurately calculated.

Catheter days: The sum of patients per day with an indwelling catheter in general medical, surgical, and medical/surgical wards, or mixed age and mixed age/mixed acuity wards for facilities without general medical or surgical wards.

CAUTI: Urinary tract infections resulting from indwelling catheters.

SIR: The standardized infection ratio is the ratio of observed infections to predicted infections based on the accumulated risks of the locations (based on national data).

Better: Indicates a facility that has statistically, significantly fewer infections compared to national averages (based on a 95% confidence interval).

Similar: Indicates a facility that does not have statistically, significantly different infections compared to national averages (based on a 95% confidence interval).

Worse: Indicates a facility that has statistically, significantly more infections compared to national averages (based on a 95% confidence interval).

* Facility's data includes mixed acuity locations during 2013; SIRs are not available for locations with mixed acuity locations because the National Comparison data is not available.





WEST REGION

Alabama Catheter-Associated Urinary Tract Infections (CAUTI)

January 1, 2013-December 31, 2013

CAUTI Locations: General medical, surgical, and medical/surgical wards, or mixed age and mixed acuity wards for facilities without general medical or surgical wards.

| Hospital Name | Number of Catheter Days | Number of CAUTI | Ratio of Actual to Predicted Infections (SIR) | Hospital Performance 2013 Compared to National Performance 2006-2008 | | |
|--------------------------------------|---|--------------------|---|--|--|--|
| Low-Volum | e Hospitals (fe | wer than 538 | catheter days) | | | |
| Bibb Medical Center | 263 | 0 | 0 | N/A | | |
| Greene County Health System | 197 | 0 | 0 | N/A | | |
| Hale County Hospital | 99 | 0 | 0 | N/A | | |
| Hill Hospital* | 15 | 0 | 0 | N/A* | | |
| Pickens County Hospital | 498 | 0 | 0 | N/A | | |
| Medium-V | olume Hospita | ls (538-3,294 c | atheter days) | | | |
| Bryan W. Whitfield Memorial Hospital | 875 | 0 | 0 | Similar | | |
| Fayette Medical Center | 822 | 0 | 0 | Similar | | |
| Northwest Medical Center | 1,171 | 2 | 1.067 | Similar | | |
| High-Volum | High-Volume Hospitals (more than 3,294 catheter days) | | | | | |
| DCH Regional Medical Center | 8,638 | 26 | 1.628 | Worse | | |
| Northport Medical Center | 3,371 | 3 | 0.556 | Similar | | |

Data pulled: March 19, 2014

N/A: Hospital submitted data though number of catheter days was too few for national performance comparisons to be accurately calculated.

Catheter days: The sum of patients per day with an indwelling catheter in general medical, surgical, and medical/surgical wards, or mixed age and mixed age/mixed acuity wards for facilities without general medical or surgical wards.

CAUTI: Urinary tract infections resulting from indwelling catheters.

SIR: The standardized infection ratio is the ratio of observed infections to predicted infections based on the accumulated risks of the locations (based on national data).

Better: Indicates a facility that has statistically, significantly fewer infections compared to national averages (based on a 95% confidence interval).

Similar: Indicates a facility that does not have statistically, significantly different infections compared to national averages (based on a 95% confidence interval).

Worse: Indicates a facility that has statistically, significantly more infections compared to national averages (based on a 95% confidence interval).

* Facility's data includes mixed acuity locations during 2013; SIRs are not available for locations with mixed acuity locations because the National Comparison data is not available.





BIRMINGHAM REGION

Alabama Central Line-Associated Blood Stream Infections (CLABSI)
January 1, 2013-December 31, 2013

CLABSI Locations: Medical, surgical, medical/surgical ICUs, and pediatric ICUs.

| Hospital Name | Number of Central Line Days | Number of CLABSI | Ratio of Actual to Predicted Infections (SIR) | Hospital Performance 2013 Compared to National Performance 2006-2008 | |
|---|-----------------------------------|---------------------|---|--|--|
| Low-Volum | e Hospitals (few | er than 134 ce | ntral line days) | | |
| St. Vincent's Blount | 54 | 0 | 0 | N/A | |
| Medium-V | olume Hospitals | (134-2,291 ce | ntral line days) | | |
| St. Vincent's St. Clair | 354 | 0 | 0 | N/A | |
| Walker Baptist Medical Center | 483 | 0 | 0 | N/A | |
| High-Volume Hospitals (more than 2,291 central line days) | | | | | |
| Brookwood Medical Center | 5,000 | 7 | 0.711 | Similar | |
| Children's Health System | 2,292 | 2 | 0.291 | Better | |
| Medical West | 2,469 | 1 | 0.213 | Similar | |
| Princeton Baptist Medical Center | 5,429 | 2 | 0.177 | Better | |
| Shelby Baptist Medical Center | 3,753 | 1 | 0.131 | Better | |
| St. Vincent's Birmingham | 5,257 | 3 | 0.325 | Better | |
| St. Vincent's East | 6,278 | 12 | 0.816 | Similar | |
| Trinity Medical Center | 3,416 | 2 | 0.278 | Better | |
| University of Alabama Birmingham Hospital | 10,748 | 25 | 0.947 | Similar | |

Data pulled: March 6, 2014

N/A: Hospital submitted data though number of catheter days was too few for national performance comparisons to be accurately calculated.

Central line days: The sum of patients per day with a central line in medical, surgical, medical/surgical ICUs, and pediatric ICUs.

CLABSI: Blood stream infections resulting from the use of central lines.

SIR: The standardized infection ratio is the ratio of observed infections to predicted infections based on the accumulated risks of the locations (based on national data).

Better: Indicates a facility that has statistically, significantly fewer infections compared to national averages (based on a 95% confidence interval).

Similar: Indicates a facility that does not have statistically, significantly different infections compared to national averages (based on a 95% confidence interval).



CENTRAL REGION

Alabama Central Line-Associated Blood Stream Infections (CLABSI)

January 1, 2013-December 31, 2013

CLABSI Locations: Medical, surgical, medical/surgical ICUs, and pediatric ICUs.

| Hospital Name | Number of Central Line Days | Number of CLABSI | Ratio of Actual to Predicted Infections (SIR) | Hospital Performance 2013 Compared to National Performance 2006-2008 | | |
|------------------------------------|---|---------------------|---|--|--|--|
| Low-Volume H | ospitals (fewe | r than 126 ce | ntral line days) | | | |
| LV Stabler Memorial Hospital | 8 | 0 | 0 | N/A | | |
| Medium-Volur | ne Hospitals (| 126-2,291 cei | ntral line days) | | | |
| Baptist Medical Center East | 1,187 | 0 | 0 | Similar | | |
| Community Hospital | 126 | 0 | 0 | N/A | | |
| East Alabama Medical Center | 2,201 | 5 | 1.514 | Similar | | |
| East Alabama Medical Center-Lanier | 359 | 1 | 1.466 | N/A | | |
| Prattville Baptist Hospital | 385 | 0 | 0 | N/A | | |
| Russell Medical Center | 916 | 0 | 0 | Similar | | |
| Vaughan Regional Medical Center | 1,546 | 0 | 0 | Similar | | |
| High-Volume Ho | High-Volume Hospitals (more than 2,291 central line days) | | | | | |
| Baptist Medical Center South | 2,944 | 2 | 0.399 | Similar | | |
| Jackson Hospital & Clinic | 3,561 | 5 | 0.936 | Similar | | |

Data pulled: March 6, 2014

N/A: Hospital submitted data though number of central line days was too few for national performance comparisons to be accurately calculated.

Central line days: The sum of patients per day with a central line in medical, surgical, medical/surgical ICUs, and pediatric ICUs.

CLABSI: Blood stream infections resulting from the use of central lines.

SIR: The standardized infection ratio is the ratio of observed infections to predicted infections based on the accumulated risks of the locations (based on national data).

Better: Indicates a facility that has statistically, significantly fewer infections compared to national averages (based on a 95% confidence interval).

Similar: Indicates a facility that does not have statistically, significantly different infections compared to national averages (based on a 95% confidence interval).





NORTH REGION

Alabama Central Line-Associated Blood Stream Infections (CLABSI)
January 1, 2013-December 31, 2013

CLABSI Locations: Medical, surgical, medical/surgical ICUs, and pediatric ICUs.

| CEADS! Ectations. Medical, solgical, incalcal | / 301 gicai 1003, and | a pedianie ie | O3. | | | | |
|---|---|---------------------|---|--|--|--|--|
| Hospital Name | Number of Central Line Days | Number of CLABSI | Ratio of Actual to Predicted Infections (SIR) | Hospital Performance 2013 Compared to National Performance 2006-2008 | | | |
| Low-Volur | ne Hospitals (few | er than 126 c | entral line days) | | | | |
| Decatur Morgan Hospital-Parkway Campus | 50 | 0 | 0 | N/A | | | |
| Lakeland Community Hospital | 7 | 0 | 0 | N/A | | | |
| North Mississippi Medical Center-Hamilton | 22 | 0 | 0 | N/A | | | |
| Medium-\ | Medium-Volume Hospitals (126-2,291 central line days) | | | | | | |
| Athens Limestone Hospital | 627 | 3 | 3.190 | N/A | | | |
| Crestwood Medical Center | 1,548 | 4 | 1.723 | Similar | | | |
| Cullman Regional Medical Center | 622 | 0 | 0 | Similar | | | |
| Decatur Morgan Hospital-Decatur Campus | 1,247 | 1 | 0.535 | Similar | | | |
| Eliza Coffee Memorial Hospital | 2,234 | 2 | 0.597 | Similar | | | |
| Helen Keller Hospital | 744 | 1 | 0.896 | Similar | | | |
| Highlands Medical Center | 217 | 0 | 0 | N/A | | | |
| Marshall Medical Center North | 379 | 0 | 0 | N/A | | | |
| Marshall Medical Center South | 477 | 0 | 0 | N/A | | | |
| Russellville Hospital | 154 | 0 | 0 | N/A | | | |
| Shoals Hospital | 337 | 1 | 1.562 | N/A | | | |
| High-Volume Hospitals (more than 2,291 central line days) | | | | | | | |
| Huntsville Hospital | 4,357 | 4 | 0.420 | Similar | | | |
| | | | | | | | |

Data pulled: March 6, 2014

N/A: Hospital submitted data though number of central line days was too few for national performance comparisons to be accurately calculated.

Central line days: The sum of patients per day with a central line in medical, surgical, medical/surgical ICUs, and pediatric ICUs.

CLABSI: Blood stream infections resulting from the use of central lines.

SIR: The standardized infection ratio is the ratio of observed infections to predicted infections based on the accumulated risks of the locations (based on national data).

Better: Indicates a facility that has statistically, significantly fewer infections compared to national averages (based on a 95% confidence interval).

Similar: Indicates a facility that does not have statistically, significantly different infections compared to national averages (based on a 95% confidence interval).





NORTHEAST REGION

Alabama Central Line-Associated Blood Stream Infections (CLABSI)

January 1, 2013-December 31, 2013

CLABSI Locations: Medical, surgical, medical/surgical ICUs, and pediatric ICUs.

| . 5 | | | | | | |
|---|---|--|---|--|--|--|
| Number of Central Line Days | Number of CLABSI | Ratio of Actual to Predicted Infections (SIR) | Hospital Performance 2013 Compared to National Performance 2006-2008 | | | |
| Hospitals (fewe | er than 126 ce | ntral line days) | | | | |
| 7 | 0 | 0 | N/A | | | |
| 57 | 0 | 0 | N/A | | | |
| Medium-Volume Hospitals (126-2,291 central line days) | | | | | | |
| 305 | 0 | 0 | N/A | | | |
| 683 | 0 | 0 | Similar | | | |
| 249 | 0 | 0 | N/A | | | |
| 1,952 | 2 | 0.683 | Similar | | | |
| 2,110 | 7 | 2.212 | Similar | | | |
| 325 | 0 | 0 | N/A | | | |
| High-Volume Hospitals (more than 2,291 central line days) | | | | | | |
| 4,914 | 2 | 0.207 | Better | | | |
| | Number of Central Line Days Hospitals (fewer 7 57 lume Hospitals (305 683 249 1,952 2,110 325 Hospitals (more | Number of Central Line Days Number of CLABSI Hospitals (fewer than 126 central Line) 7 7 0 57 0 lume Hospitals (126-2,291 central Section 1997) 0 683 0 249 0 1,952 2 2,110 7 325 0 Hospitals (more than 2,291 central Section 1997) | Central Line Days Number of CLABSI to Predicted Infections (SIR) Hospitals (fewer than 126 central line days) 7 0 0 57 0 0 0 lume Hospitals (126-2,291 central line days) 305 0 0 683 0 0 0 249 0 0 0 1,952 2 0.683 2,110 7 2.212 325 0 0 Hospitals (more than 2,291 central line days) | | | |

Data pulled: March 6, 2014

N/A: Hospital submitted data though number of central line days was too few for national performance comparisons to be accurately calculated.

Central line days: The sum of patients per day with a central line in medical, surgical, medical/surgical ICUs, and pediatric ICUs.

CLABSI: Blood stream infections resulting from the use of central lines.

SIR: The standardized infection ratio is the ratio of observed infections to predicted infections based on the accumulated risks of the locations (based on national data).

Better: Indicates a facility that has statistically, significantly fewer infections compared to national averages (based on a 95% confidence interval).

Similar: Indicates a facility that does not have statistically, significantly different infections compared to national averages (based on a 95% confidence interval).



SOUTHEAST REGION

Alabama Central Line-Associated Blood Stream Infections (CLABSI)
January 1, 2013-December 31, 2013

| CLABSI Locations: Medica | al. suraical. medical. | $^{\prime}$ suraical ICUs. and | pediatric ICUs. |
|---------------------------------|------------------------|--------------------------------|-----------------|
| | | | |

| Number of Central Line Days | Number of CLABSI | Ratio of Actual to Predicted Infections (SIR) | Hospital Performance 2013 Compared to National Performance 2006-2008 | | | |
|---|--|---|---|--|--|--|
| lume Hospitals | (fewer than 1 | 26 central line da | ys) | | | |
| 119 | 0 | 0 | N/A | | | |
| 15 | 0 | 0 | N/A | | | |
| 125 | 0 | 0 | N/A | | | |
| 63 | 0 | 0 | N/A | | | |
| Medium-Volume Hospitals (126-2,291 central line days) | | | | | | |
| 134 | 0 | 0 | N/A | | | |
| 275 | 0 | 0 | N/A | | | |
| 2,277 | 5 | 1.055 | Similar | | | |
| 172 | 0 | 0 | N/A | | | |
| High-Volume Hospitals (more than 2,291 central line days) | | | | | | |
| 2,857 | 7 | 1.633 | Similar | | | |
| | Central Line Days lume Hospitals 119 15 125 63 m-Volume Hos 134 275 2,277 172 ume Hospitals | Central Line Days Number of CLABSI Iume Hospitals (fewer than 1 119 | Central Line Days Number of CLABSI to Predicted Infections (SIR) Iume Hospitals (fewer than 126 central line days) 119 0 0 15 0 0 0 125 0 0 0 63 0 0 0 n-Volume Hospitals (126-2,291 central line days) 0 0 275 0 0 0 2,277 5 1.055 172 0 0 ume Hospitals (more than 2,291 central line days) 0 | | | |

Data pulled: March 6, 2014

N/A: Hospital submitted data though number of central line days was too few for national performance comparisons to be accurately calculated.

Central line days: The sum of patients per day with a central line in medical, surgical, medical/surgical ICUs, and pediatric ICUs.

CLABSI: Blood stream infections resulting from the use of central lines.

SIR: The standardized infection ratio is the ratio of observed infections to predicted infections based on the accumulated risks of the locations (based on national data).

Better: Indicates a facility that has statistically, significantly fewer infections compared to national averages (based on a 95% confidence interval).

Similar: Indicates a facility that does not have statistically, significantly different infections compared to national averages (based on a 95% confidence interval).





SOUTHWEST REGION

Alabama Central Line-Associated Blood Stream Infections (CLABSI)
January 1, 2013-December 31, 2013

CLABSI Locations: Medical, surgical, medical/surgical ICUs, and pediatric ICUs.

| Hospital Name | Number of Central Line Days | Number of CLABSI | Ratio of Actual to Predicted Infections (SIR) | Hospital Performance 2013 Compared to National Performance 2006-2008 | | |
|---|---|---------------------|---|--|--|--|
| Low-Volum | e Hospitals (fewe | r than 126 cen | tral line days) | | | |
| Atmore Community Hospital | 87 | 0 | 0 | N/A | | |
| Monroe County Hospital | 34 | 0 | 0 | N/A | | |
| North Baldwin Infirmary | 121 | 0 | 0 | N/A | | |
| Medium-Vo | Medium-Volume Hospitals (126-2,291 central line days) | | | | | |
| D.W. McMillan Memorial Hospital | 181 | 0 | 0 | N/A | | |
| South Baldwin Regional Medical Center | 1,378 | 0 | 0 | Similar | | |
| Thomas Hospital | 2,220 | 1 | 0.214 | Similar | | |
| University of South Alabama Medical Center | 1,216 | 3 | 1.175 | Similar | | |
| USA Children's & Women's Hospital | 1,806 | 7 | 1.292 | Similar | | |
| High-Volume Hospitals (more than 2,291 central line days) | | | | | | |
| Mobile Infirmary Medical Center | 7,163 | 2 | 0.128 | Better | | |
| Providence Hospital | 4,297 | 1 | 0.110 | Better | | |
| Springhill Medical Center | 5,859 | 2 | 0.228 | Better | | |

Data pulled: March 6, 2014

N/A: Hospital submitted data though number of central line days was too few for national performance comparisons to be accurately

Central line days: The sum of patients per day with a central line in medical, surgical, medical/surgical ICUs, and pediatric ICUs.

CLABSI: Blood stream infections resulting from the use of central lines.

SIR: The standardized infection ratio is the ratio of observed infections to predicted infections based on the accumulated risks of the locations (based on national data).

Better: Indicates a facility that has statistically, significantly fewer infections compared to national averages (based on a 95% confidence interval).

Similar: Indicates a facility that does not have statistically, significantly different infections compared to national averages (based on a 95% confidence interval).





WEST REGION

Alabama Central Line-Associated Blood Stream Infections (CLABSI) January 1, 2013-December 31, 2013

CLABSI Locations: Medical, surgical, medical/surgical ICUs, and pediatric ICUs.

| Hospital Name | Number of Central Line Days | Number of CLABSI | Ratio of Actual to Predicted Infections (SIR) | Hospital Performance 2013 Compared to National Performance 2006-2008 | |
|---|-----------------------------------|---------------------|---|--|--|
| Low-Vo | lume Hospitals (fe | wer than 126 o | entral line days) | | |
| Bryan W. Whitfield Memorial Hospital | 8 | 0 | 0 | N/A | |
| Fayette Medical Center | 105 | 0 | 0 | N/A | |
| Northwest Medical Center | 75 | 0 | 0 | N/A | |
| Pickens County Hospital | 26 | 0 | 0 | N/A | |
| Medium-Volume Hospitals (126-2,291 central line days) | | | | | |
| Northport Medical Center | 581 | 0 | 0 | Similar | |
| High-Volume Hospitals (more than 2,291 central line days) | | | | | |
| DCH Regional Medical Center | 7,181 | 4 | 0.224 | Better | |

Data pulled: March 6, 2014

N/A: Hospital submitted data though number of central line days was too few for national performance comparisons to be accurately calculated.

Central line days: The sum of patients per day with a central line in medical, surgical, medical/surgical ICUs, and pediatric ICUs.

CLABSI: Blood stream infections resulting from the use of central lines.

SIR: The standardized infection ratio is the ratio of observed infections to predicted infections based on the accumulated risks of the locations (based on national data).

Better: Indicates a facility that has statistically, significantly fewer infections compared to national averages (based on a 95% confidence interval).

Similar: Indicates a facility that does not have statistically, significantly different infections compared to national averages (based on a 95% confidence interval).





| BIRMINGHAM REGION Alabama Surgical Site Infections (SSI)-Colon Surgeries January 1, 2013-December 31, 2013 | | | | | | |
|--|-------------------------|------------------|---|--|--|--|
| Hospital Name | Number of Procedures | Number of SSI | Ratio of Actual to Predicted Infections (SIR) | Hospital Performance 2013 Compared to National Performance 2006-2008 | | |
| Low-V | olume Hospitals (| fewer than 1 | 1 procedures) | | | |
| St. Vincent's Blount | 2 | 0 | 0 | N/A | | |
| Med | ium-Volume Hosp | itals (11-127 | procedures) | | | |
| Children's Health System | 93 | 0 | 0 | Better | | |
| Medical West | 77 | 9 | 2.305 | Worse | | |
| Walker Baptist Medical Center | 40 | 0 | 0 | Similar | | |
| High-V | olume Hospitals (| more than 12 | 7 procedures) | | | |
| Brookwood Medical Center | 233 | 7 | 0.579 | Similar | | |
| Princeton Baptist Medical Center | 188 | 3 | 0.321 | Better | | |
| Shelby Baptist Medical Center | 200 | 7 | 0.615 | Similar | | |
| St. Vincent's Hospital Birmingham | 233 | 13 | 1.071 | Similar | | |
| St. Vincent's East | 185 | 3 | 0.298 | Better | | |
| Trinity Medical Center | 137 | 1 | 0.156 | Better | | |
| University of Alabama Birmingham Hospital | 502 | 14 | 0.350 | Better | | |

Data pulled: February 28, 2014

N/A: Hospital submitted data though number of procedures was too few for national performance comparisons to be accurately calculated.

Procedures: The number of in-patient colon surgeries performed in 2013.

SSI: Infections that occur after in-patient colon surgery and are related to the surgery.

SIR: The standardized infection ratio is the ratio of observed infections to predicted infections based on the accumulated risks of the procedures (based on national data).

Better: Indicates a facility that has statistically, significantly fewer infections compared to national averages (based on a 95% confidence interval).

Similar: Indicates a facility that does not have statistically, significantly different infections compared to national averages (based on a 95% confidence interval).





CENTRAL REGION Alabama Surgical Site Infections (SSI)-Colon Surgeries January 1, 2013-December 31, 2013 Ratio of Actual to Hospital Performance 2013 Number of Number of **Hospital Name** Predicted Compared to National **Procedures** SSI Performance 2006-2008 Infections (SIR) Low-Volume Hospitals (fewer than 11 procedures) Community Hospital 5 0 N/A Jack Hughston Memorial Hospital 5 0 0 N/A LV Stabler Memorial Hospital 7 0 0 N/A Medium-Volume Hospitals (11-127 procedures) East Alabama Medical Center-Lanier 31 0.523 Similar 29 0 **Prattville Baptist Hospital** 0 Similar 4 2.175 Similar Russell Medical Center 31 Vaughan Regional Medical Center 46 2 0.743 Similar High-Volume Hospitals (more than 127 procedures) **Baptist Medical Center East** 128 0 Better **Baptist Medical Center South** 156 7 0.923 Similar East Alabama Medical Center 138 1 0.134 Better 3 Jackson Hospital & Clinic 129 0.373 Similar

Data pulled: February 28, 2014

N/A: Hospital submitted data though number of procedures was too few for national performance comparisons to be accurately calculated.

Procedures: The number of in-patient colon surgeries performed in 2013.

SSI: Infections that occur after in-patient colon surgery and are related to the surgery.

SIR: The standardized infection ratio is the ratio of observed infections to predicted infections based on the accumulated risks of the procedures (based on national data).

Better: Indicates a facility that has statistically, significantly fewer infections compared to national averages (based on a 95% confidence interval).

Similar: Indicates a facility that does not have statistically, significantly different infections compared to national averages (based on a 95% confidence interval).





NORTH REGION Alabama Surgical Site Infections (SSI)-Colon Surgeries January 1, 2013-December 31, 2013 Ratio of Actual to Hospital Performance 2013 Number of Number Predicted **Hospital Name** Compared to National Procedures of SSI Performance 2006-2008 Infections (SIR) Low-Volume Hospitals (fewer than 11 procedures) Decatur Morgan Hospital-Parkway Campus N/A 8 0 Highlands Medical Center 0 N/A Lakeland Community Hospital 2 N/A 2 0 North Mississippi Medical Center-Hamilton 0 N/A Medium-Volume Hospitals (11-127 procedures) Athens Limestone Hospital 27 Similar 0 Crestwood Medical Center 100 0.157 1 **Better** Cullman Regional Medical Center 69 1 0.262 Similar 0.140 Decatur Morgan Hospital-Decatur Campus 120 1 Better Eliza Coffee Memorial Hospital 97 11 2.048 Worse Helen Keller Hospital 78 0.200 Better 1 Marshall Medical Center North 49 1 0.388 Similar Marshall Medical Center South 37 Similar 1 0.504 Russellville Hospital 12 2 2.339 N/A **Shoals Hospital** 27 2 1.198 Similar High-Volume Hospitals (more than 127 procedures) Huntsville Hospital 527 13 0.355 Better

Data pulled: February 28, 2014

N/A: Hospital submitted data though number of procedures was too few for national performance comparisons to be accurately calculated.

Procedures: The number of in-patient colon surgeries performed in 2013.

SSI: Infections that occur after in-patient colon surgery and are related to the surgery.

SIR: The standardized infection ratio is the ratio of observed infections to predicted infections based on the accumulated risks of the procedures (based on national data).

Better: Indicates a facility that has statistically, significantly fewer infections compared to national averages (based on a 95% confidence interval).

Similar: Indicates a facility that does not have statistically, significantly different infections compared to national averages (based on a 95% confidence interval).





NORTHEAST REGION Alabama Surgical Site Infections (SSI)-Colon Surgeries January 1, 2013-December 31, 2013 Ratio of Actual to Hospital Performance 2013 Number of Number **Hospital Name** Predicted Compared to National **Procedures** of SSI Performance 2006-2008 Infections (SIR) Low-Volume Hospitals (fewer than 11 procedures) Clay County Hospital 0 N/A 5 3.731 Regional Medical Center-Jacksonville 1 N/A Medium-Volume Hospitals (11-127 procedures) Citizens Baptist Medical Center N/A 11 25 0 Similar Coosa Valley Medical Center 0 DeKalb Regional Medical Center 37 1 0.383 Similar Gadsden Regional Medical Center 119 0 0 **Better** Northeast Alabama Regional Medical Center 124 5 0.842 Similar 0 Riverview Regional Medical Center 61 0 Better Stringfellow Memorial Hospital 26 0 0 Similar

Data pulled: February 28, 2014

N/A: Hospital submitted data though number of procedures was too few for national performance comparisons to be accurately calculated.

Procedures: The number of in-patient colon surgeries performed in 2013.

SSI: Infections that occur after in-patient colon surgery and are related to the surgery.

SIR: The standardized infection ratio is the ratio of observed infections to predicted infections based on the accumulated risks of the procedures (based on national data).

Better: Indicates a facility that has statistically, significantly fewer infections compared to national averages (based on a 95% confidence interval).

Similar: Indicates a facility that does not have statistically, significantly different infections compared to national averages (based on a 95% confidence interval).



| SOUTHEAST REGION | | | | | | |
|--|---|------------------|---|--|--|--|
| Alabama Surgical Site Infections (SSI)-Colon Surgeries | | | | | | |
| | lanuary 1, 2013-D | ecember 31, 2 | 2013 | | | |
| Hospital Name | Number of Procedures | Number of SSI | Ratio of Actual to Predicted Infections (SIR) | Hospital Performance 2013 Compared to National Performance 2006-2008 | | |
| Low-V | Low-Volume Hospitals (fewer than 11 procedures) | | | | | |
| Dale Medical Center | 8 | 0 | 0 | N/A | | |
| Medical Center Barbour | 2 | 0 | 0 | N/A | | |
| Mizell Memorial Hospital | 10 | 1 | 1.869 | N/A | | |
| Med | Medium-Volume Hospitals (11-127 procedures) | | | | | |
| Andalusia Regional Medical Center | 25 | 1 | 0.801 | Similar | | |
| Flowers Hospital | 94 | 4 | 0.702 | Similar | | |
| Medical Center Enterprise | 41 | 4 | 1.716 | Similar | | |
| Troy Regional Medical Center | 12 | 0 | 0 | N/A | | |
| Wiregrass Medical Center | 12 | 0 | 0 | N/A | | |
| High-Volume Hospitals (more than 127 procedures) | | | | | | |
| Southeast Alabama Medical Center | 149 | 1 | 0.111 | Better | | |

N/A: Hospital submitted data though number of procedures was too few for national performance comparisons to be accurately calculated.

Procedures: The number of in-patient colon surgeries performed in 2013.

SSI: Infections that occur after in-patient colon surgery and are related to the surgery.

SIR: The standardized infection ratio is the ratio of observed infections to predicted infections based on the accumulated risks of the procedures (based on national data).

Better: Indicates a facility that has statistically, significantly fewer infections compared to national averages (based on a 95% confidence interval).

Similar: Indicates a facility that does not have statistically, significantly different infections compared to national averages (based on a 95% confidence interval).





SOUTHWEST REGION Alabama Surgical Site Infections (SSI)-Colon Surgeries January 1, 2013-December 31, 2013 Ratio of Actual to Hospital Performance 2013 Number of Number **Hospital Name** Predicted Compared to National **Procedures** of SSI Performance 2006-2008 Infections (SIR) Low-Volume Hospitals (fewer than 11 procedures) **Atmore Community Hospital** N/A 4 0 0 N/A Monroe County Hospital Medium-Volume Hospitals (11-127 procedures) D.W. McMillan Memorial Hospital 26 5.132 Worse North Baldwin Infirmary 19 1 0.855 Similar South Baldwin Regional Medical Center 0 0 Similar 18 Springhill Medical Center 126 7 1.013 Similar 51 1 University of South Alabama Medical Center 0.273 Similar USA Children's & Women's Hospital 17 0 0 N/A High-Volume Hospitals (more than 127 procedures) Mobile Infirmary Medical Center 0.516 328 13 Better **Providence Hospital** 5 146 0.631 Similar 156 5 0.635 Similar Thomas Hospital

Data pulled: February 28, 2014

N/A: Hospital submitted data though number of procedures was too few for national performance comparisons to be accurately calculated.

Procedures: The number of in-patient colon surgeries performed in 2013.

SSI: Infections that occur after in-patient colon surgery and are related to the surgery.

SIR: The standardized infection ratio is the ratio of observed infections to predicted infections based on the accumulated risks of the procedures (based on national data).

Better: Indicates a facility that has statistically, significantly fewer infections compared to national averages (based on a 95% confidence interval).

Similar: Indicates a facility that does not have statistically, significantly different infections compared to national averages (based on a 95% confidence interval).





| WEST REGION Alabama Surgical Site Infections (SSI)-Colon Surgeries January 1, 2013-December 31, 2013 | | | | |
|--|-------------------------|------------------|---|--|
| Hospital Name | Number of Procedures | Number of SSI | Ratio of Actual to Predicted Infections (SIR) | Hospital Performance 2013 Compared to National Performance 2006-2008 |
| Low-\ | olume Hospit | als (fewer | than 11 procedures) | |
| Bryan W. Whitfield Memorial Hospital | 5 | 0 | 0 | N/A |
| Fayette Medical Center | 5 | 2 | 8.130 | N/A |
| Northwest Medical Center | 10 | 2 | 3.096 | N/A |
| Pickens County Medical Center | 8 | 0 | 0 | N/A |
| Medium-Volume Hospitals (11-127 procedures) | | | | |
| Northport Medical Center | 18 | 1 | 1.140 | N/A |
| High-Volume Hospitals (more than 127 procedures) | | | | |
| DCH Regional Medical Center | 294 | 16 | 0.771 | Similar |

N/A: Hospital submitted data though number of procedures was too few for national performance comparisons to be accurately calculated.

Procedures: The number of in-patient colon surgeries performed in 2013.

\$\$I: Infections that occur after in-patient colon surgery and are related to the surgery.

SIR: The standardized infection ratio is the ratio of observed infections to predicted infections based on the accumulated risks of the procedures (based on national data).

Better: Indicates a facility that has statistically, significantly fewer infections compared to national averages (based on a 95% confidence interval).

Similar: Indicates a facility that does not have statistically, significantly different infections compared to national averages (based on a 95% confidence interval).





BIRMINGHAM REGION Alabama Surgical Site Infections (SSI)-Abdominal Hysterectomies January 1, 2013-December 31, 2013 Ratio of Actual to Hospital Performance 2013 Number of Number **Hospital Name** Predicted Compared to National **Procedures** of SSI Performance 2006-2008 Infections (SIR) Low-Volume Hospitals (fewer than 17 procedures) St. Vincent's Blount 10 0 N/A Walker Baptist Medical Center 16 0 N/A Medium-Volume Hospitals (17-115 procedures) Medical West 61 2.123 Similar 55 1 **Princeton Baptist Medical Center** 0.751 Similar **Trinity Medical Center** 56 0 N/A High-Volume Hospitals (more than 115 procedures) **Brookwood Medical Center** 958 4 0.290 Better **Shelby Baptist Medical Center** 116 1 0.507 Similar St. Vincent's Hospital Birmingham 594 1 0.138 Better St. Vincent's East 159 0.377 Similar 1 University of Alabama Birmingham Hospital 650 11 0.738 Similar

Data pulled: February 28, 2014

N/A: Hospital submitted data though number of procedures was too few for national performance comparisons to be accurately calculated.

Procedures: The number of in-patient abdominal hysterectomy surgeries performed in 2013.

\$\$I: Infections that occur after in-patient abdominal hysterectomy surgeries and are related to the surgery.

SIR: The standardized infection ratio is the ratio of observed infections to predicted infections based on the accumulated risks of the procedures (based on national data).

Better: Indicates a facility that has statistically, significantly fewer infections compared to national averages (based on a 95% confidence interval).

Similar: Indicates a facility that does not have statistically, significantly different infections compared to national averages (based on a 95% confidence interval).





| CENTRAL REGION | | | | | |
|---|---|------------------|---|--|--|
| Alabama Surgical Site Infections (SSI)-Abdominal Hysterectomies | | | | | |
| | January 1, 201 | 13-Decembe | r 31, 2013 | | |
| Hospital Name | Number of Procedures | Number of SSI | Ratio of Actual to Predicted Infections (SIR) | Hospital Performance 2013 Compared to National Performance 2006-2008 | |
| Low | Low-Volume Hospitals (fewer than 17 procedures) | | | | |
| Russell Medical Center | 5 | 0 | 0 | N/A | |
| Me | edium-Volume H | ospitals (17-1 | .15 procedures) | | |
| Baptist Medical Center South | 83 | 2 | 1.095 | Similar | |
| East Alabama Medical Center-Lanier | 36 | 1 | 1.182 | N/A | |
| Vaughan Regional Medical Center | 53 | 1 | 0.823 | Similar | |
| High-Volume Hospitals (more than 115 procedures) | | | | | |
| Baptist Medical Center East | 470 | 2 | 0.254 | Better | |
| East Alabama Medical Center | 335 | 3 | 0.677 | Similar | |
| Jackson Hospital & Clinic | 164 | 0 | 0 | Similar | |

N/A: Hospital submitted data though number of procedures was too few for national performance comparisons to be accurately calculated.

Procedures: The number of in-patient abdominal hysterectomy surgeries performed in 2013.

\$\$1: Infections that occur after in-patient abdominal hysterectomy surgeries and are related to the surgery.

SIR: The standardized infection ratio is the ratio of observed infections to predicted infections based on the accumulated risks of the procedures (based on national data).

Better: Indicates a facility that has statistically, significantly fewer infections compared to national averages (based on a 95% confidence interval).

Similar: Indicates a facility that does not have statistically, significantly different infections compared to national averages (based on a 95% confidence interval).



| NORTH REGION | | | | |
|---|-------------------------|------------------|---|--|
| Alabama Surgical Site Infections (SSI)-Abdominal Hysterectomies | | | | |
| | January 1, 20 | 13-Decembe | r 31, 2013 | |
| Hospital Name | Number of Procedures | Number of SSI | Ratio of Actual to Predicted Infections (SIR) | Hospital Performance 2013 Compared to National Performance 2006-2008 |
| Lov | v-Volume Hospit | als (fewer tha | n 17 procedures) | |
| Lakeland Community Hospital | 4 | 2 | 12.987 | N/A |
| Russellville Hospital | 5 | 0 | 0 | N/A |
| Shoals Hospital | 6 | 0 | 0 | N/A |
| Medium-Volume Hospitals (17-115 procedures) | | | | |
| Athens Limestone Hospital | 29 | 0 | 0 | N/A |
| Crestwood Medical Center | 81 | 1 | 0.677 | Similar |
| Cullman Regional Medical Center | 37 | 0 | 0 | N/A |
| Eliza Coffee Memorial Hospital | 72 | 8 | 5.274 | Worse |
| Helen Keller Hospital | 59 | 0 | 0 | Similar |
| Highlands Medical Center | 28 | 0 | 0 | N/A |
| Marshall Medical Center North | 18 | 0 | 0 | N/A |
| Marshall Medical Center South | 50 | 0 | 0 | Similar |
| High-Volume Hospitals (more than 115 procedures) | | | | |
| Decatur General-Decatur Campus | 147 | 0 | 0 | Similar |
| Huntsville Hospital | 661 | 12 | 0.931 | Similar |

N/A: Hospital submitted data though number of procedures was too few for national performance comparisons to be accurately calculated.

Procedures: The number of in-patient abdominal hysterectomy surgeries performed in 2013.

\$\$I: Infections that occur after in-patient abdominal hysterectomy surgeries and are related to the surgery.

SIR: The standardized infection ratio is the ratio of observed infections to predicted infections based on the accumulated risks of the procedures (based on national data).

Better: Indicates a facility that has statistically, significantly fewer infections compared to national averages (based on a 95% confidence interval).

Similar: Indicates a facility that does not have statistically, significantly different infections compared to national averages (based on a 95% confidence interval).





NORTHEAST REGION Alabama Surgical Site Infections (SSI)-Abdominal Hysterectomies January 1, 2013-December 31, 2013 Ratio of Actual Hospital Performance 2013 Number of Number **Hospital Name** to Predicted Compared to National Procedures of SSI Performance 2006-2008 Infections (SIR) Low-Volume Hospitals (fewer than 17 procedures) Citizens Baptist Medical Center 16 N/A 0 0 N/A Regional Medical Center-Jacksonville 10 Riverview Regional Medical Center 12 0 N/A Stringfellow Memorial Hospital 3 0 0 N/A Medium-Volume Hospitals (17-115 procedures) Coosa Valley Medical Center 21 0 N/A **DeKalb Regional Medical Center** 54 0.992 Similar 1 Gadsden Regional Medical Center 93 0 0 Similar Northeast Alabama Regional Medical Center 87 0.533 Similar 1

Data pulled: February 28, 2014

N/A: Hospital submitted data though number of procedures was too few for national performance comparisons to be accurately calculated.

Procedures: The number of in-patient abdominal hysterectomy surgeries performed in 2013.

SSI: Infections that occur after in-patient abdominal hysterectomy surgeries and are related to the surgery.

SIR: The standardized infection ratio is the ratio of observed infections to predicted infections based on the accumulated risks of the procedures (based on national data).

Better: Indicates a facility that has statistically, significantly fewer infections compared to national averages (based on a 95% confidence interval)

Similar: Indicates a facility that does not have statistically, significantly different infections compared to national averages (based on a 95% confidence interval).





SOUTHEAST REGION Alabama Surgical Site Infections (SSI)-Abdominal Hysterectomies January 1, 2013-December 31, 2013 Ratio of Actual Hospital Performance 2013 Number of Number of **Hospital Name** to Predicted Compared to National **Procedures** SSI Performance 2006-2008 Infections (SIR) Low-Volume Hospitals (fewer than 17 procedures) Medical Center Barbour N/A Wiregrass Medical Center 5 0 N/A Medium-Volume Hospitals (17-115 procedures) Andalusia Regional Hospital 17 N/A 81 0.582 Medical Center Enterprise 1 Similar Southeast Alabama Medical Center 60 0 0 Similar Troy Regional Medical Center 28 0 0 N/A High-Volume Hospitals (more than 115 procedures) Flowers Hospital 165 Better

Data pulled: February 28, 2014

N/A: Hospital submitted data though number of procedures was too few for national performance comparisons to be accurately calculated.

Procedures: The number of in-patient abdominal hysterectomy surgeries performed in 2013.

\$\$1: Infections that occur after in-patient abdominal hysterectomy surgeries and are related to the surgery.

SIR: The standardized infection ratio is the ratio of observed infections to predicted infections based on the accumulated risks of the procedures (based on national data).

Better: Indicates a facility that has statistically, significantly fewer infections compared to national averages (based on a 95% confidence interval).

Similar: Indicates a facility that does not have statistically, significantly different infections compared to national averages (based on a 95% confidence interval).





SOUTHWEST REGION Alabama Surgical Site Infections (SSI)-Abdominal Hysterectomies January 1, 2013-December 31, 2013 Ratio of Actual to Hospital Performance 2013 Number of Number Predicted **Hospital Name** Compared to National **Procedures** of SSI Performance 2006-2008 Infections (SIR) Low-Volume Hospitals (fewer than 17 procedures) D.W. McMillan Memorial Hospital 10 N/A Grove Hill Memorial Hospital 15 0 0 N/A North Baldwin Infirmary 16 2.228 N/A 1 Monroe County Hospital 11 0 0 N/A University of South Alabama Medical Center 0 N/A Medium-Volume Hospitals (17-115 procedures) South Baldwin Regional Medical Center 58 0 Similar Springhill Medical Center 95 1.192 Similar High-Volume Hospitals (more than 115 procedures) Mobile Infirmary Medical Center 221 2 0.579 Similar Providence Hospital 240 0.241 Similar 1 220 Thomas Hospital 1 0.460 Similar 224 USA Children's & Women's Hospital 5 0.947 Similar

Data pulled: February 28, 2014

N/A: Hospital submitted data though number of procedures was too few for national performance comparisons to be accurately calculated.

Procedures: The number of in-patient abdominal hysterectomy surgeries performed in 2013.

\$\$1: Infections that occur after in-patient abdominal hysterectomy surgeries and are related to the surgery.

SIR: The standardized infection ratio is the ratio of observed infections to predicted infections based on the accumulated risks of the procedures (based on national data).

Better: Indicates a facility that has statistically, significantly fewer infections compared to national averages (based on a 95% confidence interval).

Similar: Indicates a facility that does not have statistically, significantly different infections compared to national averages (based on a 95% confidence interval).





WEST REGION Alabama Surgical Site Infections (SSI)-Abdominal Hysterectomies January 1, 2013-December 31, 2013 Ratio of Actual Hospital Performance 2013 Number of Number to Predicted **Hospital Name** Compared to National **Procedures** of SSI Performance 2006-2008 Infections (SIR) Medium-Volume Hospitals (17-115 procedures) Bryan W. Whitfield Memorial Hospital 21 N/A 45 1.217 N/A Northport Medical Center 1 Northwest Medical Center 51 0 N/A High-Volume Hospitals (more than 115 procedures) DCH Regional Medical Center 116 0.540 Similar 1

Data pulled: February 28, 2014

N/A: Hospital submitted data though number of procedures was too few for national performance comparisons to be accurately calculated

Procedures: The number of in-patient abdominal hysterectomy surgeries performed in 2013.

SSI: Infections that occur after in-patient abdominal hysterectomy surgeries and are related to the surgery.

SIR: The standardized infection ratio is the ratio of observed infections to predicted infections based on the accumulated risks of the procedures (based on national data).

Better: Indicates a facility that has statistically, significantly fewer infections compared to national averages (based on a 95% confidence interval)

Similar: Indicates a facility that does not have statistically, significantly different infections compared to national averages (based on a 95% confidence interval).





Alabama General Critical Access Facilities

| FACILITY | REGION | PAGES |
|---|------------------|--|
| ANDALUSIA REGIONAL HOSPITAL | Southeast Region | 23, 30, 37, 44 |
| ATHENS LIMESTONE HOSPITAL | North Region | 21, 28, 35, 42 |
| ATMORE COMMUNITY HOSPITAL | Southwest Region | 24, 31, 38 |
| BAPTIST MEDICAL CENTER EAST | Central Region | 20, 27, 34, 41 |
| BAPTIST MEDICAL CENTER SOUTH | Central Region | 20, 27, 34, 41 |
| BIBB MEDICAL CENTER | West Region | 25 |
| BROOKWOOD MEDICAL CENTER | Birmingham | 19, 26, 33, 40 |
| BRYAN W. WHITFIELD MEMORIAL HOSPITAL | West Region | 25, 32 |
| BULLOCK COUNTY HOSPITAL | Central Region | 20 |
| CHEROKEE MEDICAL CENTER | Northeast Region | 22, 36 |
| CHILDREN'S HEALTH SYSTEM | Birmingham | 26, 33 |
| CHILTON MEDICAL CENTER | Central Region | Closed October 2013 |
| CITIZENS BAPTIST MEDICAL CENTER | Northeast Region | 22, 29, 36, 43 |
| CLAY COUNTY HOSPITAL | Northeast Region | 22, 29 |
| COMMUNITY HOSPITAL | Central Region | 20, 26, 34 |
| COOPER GREEN MERCY HOSPITAL | Birmingham | Closed December 2013 |
| COOSA VALLEY MEDICAL CENTER | Northeast Region | 29, 36, 43 |
| CRENSHAW COMMUNITY HOSPITAL | Central Region | 20 |
| CRESTWOOD MEDICAL CENTER | North Region | 21, 28, 35, 42 |
| CULLMAN REGIONAL MEDICAL CENTER | North Region | 21, 28, 35, 42 |
| D.W. MCMILLAN MEMORIAL HOSPITAL | Southwest Region | 24, 31, 38, 45 |
| DALE MEDICAL CENTER | Southeast Region | 23, 30, 37 |
| DCH REGIONAL MEDICAL CENTER | West Region | 25, 32, 39, 46 |
| DECATUR GENERAL | North Region | See Decatur Morgan Hospital- Decatur Campus |
| DECATUR MORGAN HOSPITAL-DECATUR CAMPAUS | North Region | 21, 28, 35, 42 |
| DECATUR MORGAN HOSPITAL-PARKWAY CAMPAUS | North Region | 21, 28, 35,42 |
| DEKALB REGIONAL MEDICAL CENTER | Northeast Region | 22, 29, 36, 43 |
| EAST ALABAMA MEDICAL CENTER | Central Region | 20, 27, 34, 41 |
| EAST ALABAMA MEDICAL CENTER-LANIER | Central Region | 20, 27, 34, 41 |
| ELBA GENERAL HOSPITAL | Southeast Region | Closed February 2013 |
| ELIZA COFFEE MEMORIAL HOSPITAL | North Region | 21, 28, 35, 42 |
| ELMORE COMMUNITY HOSPITAL | Central Region | 20 |
| FLORALA MEMORIAL HOSPITAL | Southeast Region | Closed December 2013 |
| EVERGREEN MEDICAL CENTER | Southwest Region | 24 |
| FAYETTE MEDICAL CENTER | West Region | 25, 32, 39 |
| FLOWERS HOSPITAL | Southeast Region | 23, 30, 37, 44 |
| GADSDEN REGIONAL MEDICAL CENTER | Northeast Region | 22, 29, 36, 43 |
| GEORGE H. LANIER MEMORIAL HOSPITAL | Central Region | Name Change: See EAMC-Lanier |
| | | |



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| GREENE COUNTY HOSPITAL | West Region | Name Change: See Greene County Health System |
|---|------------------|---|
| GREENE COUNTY HEALTH SYSTEM | West Region | 25 |
| GEORGIANA HOSPITAL | Central Region | 20 |
| GROVE HILL MEMORIAL HOSPITAL | Southwest Region | 24 |
| hale county hospital | West Region | 25 |
| HARTSELLE MEDICAL CENTER | North Region | Closed February 2013 |
| HELEN KELLER HOSPITAL | North Region | 21, 28, 35, 42 |
| HIGHLANDS MEDICAL CENTER | North Region | 21, 28, 35 |
| HILL HOSPITAL | West Region | 25 |
| huntsville hospital | North Region | 21, 28, 35, 42 |
| Infirmary West | Southwest Region | Closed November 2013 |
| J. PAUL JONES HOSPITAL | Southwest Region | 24 |
| JACK HUGHSTON MEMORIAL HOSPITAL | Central Region | 20 |
| JACKSON HOSPITAL & CLINIC | Central Region | 20, 27, 34, 41 |
| JACKSON MEDICAL CENTER | Southwest Region | 24 |
| JACKSONVILLE MEDICAL CENTER | Northeast Region | Name Change: See RMC- Jacksonville |
| LAKE MARTIN COMMUNITY HOSPITAL | Central Region | 20 |
| LAKELAND COMMUNITY HOSPITAL | North Region | 21, 28, 35, 42 |
| LAWRENCE MEDICAL CENTER | North Region | 21 |
| LV STABLER MEMORIAL HOSPITAL | Central Region | 21, 27, 34 |
| Marshall medical center north | North Region | 21, 28, 35, 42 |
| MARSHALL MEDICAL CENTER SOUTH | North Region | 21, 28, 35, 42 |
| MEDICAL CENTER BARBOUR | Southeast Region | 23, 30, 37, 44 |
| MEDICAL CENTER ENTERPRISE | Southeast Region | 23, 30, 37, 44 |
| MEDICAL WEST | Birmingham | 19, 26, 33, 40 |
| MIZELL MEMORIAL HOSPITAL | Southeast Region | 23, 30, 37, 44 |
| MOBILE INFIRMARY MEDICAL CENTER | Southwest Region | 24, 31, 38, 45 |
| MONROE COUNTY HOSPITAL | Southwest Region | 24, 31, 38, 45 |
| north baldwin infirmary | Southwest Region | 24, 31, 38, 45 |
| NORTH MISSISSIPPI MEDICAL CENTER-HAMILTON | North Region | 21, 28, 35, 42 |
| NORTHPORT MEDICAL CENTER | West Region | 25, 32, 39, 46 |
| NORTHWEST MEDICAL CENTER | West Region | 25, 32, 39, 46 |
| PARKWAY MEDICAL CENTER | North Region | See Decatur Morgan Hospital- Parkway Campus |
| PICKENS COUNTY MEDICAL CENTER | West Region | 25, 32, 39, 46 |
| PRATTVILLE BAPTIST HOSPITAL | Central Region | 20, 27, 34 |
| PRINCETON BAPTIST MEDICAL CENTER | Birmingham | 19, 26, 33, 40 |
| PROVIDENCE HOSPITAL | Southwest Region | 24, 31, 38, 45 |
| red bay hospital | North Region | 21 |
| regional medical center-jacksonville | Northeast Region | 22, 29, 26, 43 |
| RIVERVIEW REGIONAL MEDICAL CENTER | Northeast Region | 22, 29, 36, 43 |
| RUSSELL MEDICAL CENTER | Central Region | 20, 27, 24, 41 |





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| RUSSELLVILLE HOSPITAL | North Region | 21, 28, 35, 42 |
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| SHELBY BAPTIST MEDICAL CENTER | Birmingham | 19, 26, 33, 40 |
| SHOALS HOSPITAL | North Region | 21, 28, 35, 42 |
| SOUTH BALDWIN REGIONAL MEDICAL CENTER | Southwest Region | 24, 31, 38, 45 |
| SOUTHEAST ALABAMA MEDICAL CENTER | Southeast Region | 23, 30, 37, 44 |
| SPRINGHILL MEDICAL CENTER | Southwest Region | 24, 31, 38, 45 |
| ST. VINCENT'S HOSPITAL-BIRMINGHAM | Birmingham | 19, 26, 33, 40 |
| ST. VINCENT'S BLOUNT | Birmingham | 19, 26, 33, 40 |
| ST. VINCENT'S EAST | Birmingham | 19, 26, 33, 40 |
| ST. VINCENT'S ST. CLAIR | Birmingham | 19, 26 |
| STRINGFELLOW MEMORIAL HOSPITAL | Northeast Region | 22, 29, 36, 43 |
| THOMAS HOSPITAL | Southwest Region | 24, 31, 38, 45 |
| TRINTY MEDICAL CENTER | Birmingham | 19, 26, 33, 40 |
| TROY REGIONAL MEDICAL CENTER | Southeast Region | 23, 30, 37 |
| University of Alabama at Birmingham (UAB) | Birmingham | 19, 26, 33, 40 |
| UNIVERSITY OF SOUTH ALABAMA (USA) CHILDREN'S & WOMEN'S HOSPITAL | Southwest Region | 31, 38, 45 |
| UNIVERSITY OF SOUTH ALABAMA (USA) MEDICAL CENTER | Southwest Region | 24, 31, 38, 45 |
| VAUGHAN REGIONAL MEDICAL CENTER | Central Region | 20, 27, 34, 41 |
| WALKER BAPTIST MEDICAL CENTER | Birmingham | 19, 26, 33, 40 |
| WASHINGTON COUNTY HOSPITAL | Southwest Region | 24 |
| WEDOWEE HOSPITAL | Northeast Region | 22 |
| WIREGRASS MEDICAL CENTER | Southeast Region | 23, 30, 37, 44 |
| | | |



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