



Healthcare-Associated Infections: 2022 Annual Report

July 2023



COLORADO
Department of Public
Health & Environment

colorado.gov/cdphe/hai

Executive summary

Key findings

In 2022, overall rates of the following conditions were lower (better) than the national baseline (Table 1):

- Catheter-associated urinary tract infections in acute care hospitals overall and in adult and pediatric critical care units and wards.
- Central-line associated bloodstream infections in acute care hospitals overall and in adult and pediatric critical care units and wards.
- *Clostridioides difficile* infections in acute care hospitals, inpatient rehabilitation facilities, and long-term acute care hospitals.
- Surgical site infections following inpatient colon surgeries in acute care hospitals.
- Surgical site infections following outpatient knee replacement surgeries in acute care hospitals.

Overall rates of the following conditions were higher (worse) than the national baseline:

- Surgical site infections following inpatient breast surgeries in acute care hospitals.
- Surgical site infections following inpatient hip replacement surgeries in acute care hospitals.
- Surgical site infections following outpatient abdominal hysterectomies in acute care hospitals.
- Surgical site infections following knee replacement surgeries in ambulatory surgery centers.

Overall rates for other conditions were similar to the national baseline or suppressed due to small numbers of events.

Facility-specific rates of HAIs are presented in detail.

Healthcare-associated infections (HAIs) are infections that patients get while being treated for other conditions in a hospital or other healthcare setting. About 3% of patients in U.S. hospitals have a HAI. HAIs can lead to additional treatment and cause pain, suffering, and death. HAIs are preventable.

This report contains 2022 rates of HAIs that Colorado health care facilities report to the Colorado Department of Public Health and Environment via the National Healthcare Safety Network (NHSN). It includes infections associated with urinary catheters, central lines, dialysis, and surgeries. It also includes hospital-onset *Clostridioides difficile* infections. Rates of HAIs from 2021 are included for comparison.

The HAI rates in this report are standardized to account for facility and patient characteristics. They are compared to a national baseline in the form of a Standardized Infection Ratio (SIR). This report does not have information on all HAIs, but healthcare consumers can use it as one indicator of healthcare quality. Health care facilities can use the data to target their infection prevention efforts.

CDPHE works to reduce HAIs in Colorado through:

- Tracking and publishing HAI data.
- Guiding and assisting facilities on best practices for infection control.
- Validating HAI data.
- Observing facility practices.
- Working with partners on patient safety.

More information about HAIs is available on [CDPHE's webpage](#).

Table 1. Healthcare-associated infections summary table – Colorado, 2022.

	Number of facilities reporting data	Number of facilities better than national benchmark	Number of facilities same as national benchmark	Number of facilities worse than national benchmark	Number of facilities for which data are suppressed	Comparison: Colorado to national benchmark
Catheter-associated urinary tract infections						
Acute care hospitals	53	10	24	1	18	Better
Acute care hospitals, adult and pediatric critical care units	45	7	21	0	17	Better
Acute care hospitals, adult and pediatric inpatient wards	51	2	23	1	25	Better
Inpatient rehabilitation facilities	7	0	2	1	4	Not significant
Long-term acute care hospitals	6	0	5	1	0	Not significant
Central line-associated bloodstream infections						
Acute care hospitals	53	5	28	0	20	Better
Acute care hospitals, adult and pediatric critical care units	45	2	28	0	15	Better
Acute care hospitals, adult and pediatric inpatient wards	51	1	27	0	23	Better
Acute care hospitals, inpatient rehabilitation wards	9	0	0	0	9	Not significant
Acute care hospitals, neonatal critical care units	21	0	4	0	17	Not significant
Critical access hospitals, critical care units	4	0	0	0	4	Suppressed ¹
Inpatient rehabilitation facilities	7	0	0	0	7	Not significant
Long-term acute care hospitals	6	1	4	0	1	Not available ²
Pediatric hospitals	1	0	1	0	0	Not significant
<i>Clostridioides difficile</i> infections						
Acute care hospitals	53	29	14	0	10	Better
Inpatient rehabilitation	7	1	6	0	0	Better

	Number of facilities reporting data	Number of facilities better than national benchmark	Number of facilities same as national benchmark	Number of facilities worse than national benchmark	Number of facilities for which data are suppressed	Comparison: Colorado to national benchmark
facilities						
Long-term acute care hospitals	6	2	4	0	0	Better
Surgical site infections at acute care hospitals among inpatient procedures						
Abdominal hysterectomy	51	0	17	2	32	Not significant
Breast surgery	51	0	14	2	35	Worse
Colon surgery	51	4	31	2	14	Better
Hip replacement	52	0	26	6	20	Worse
Knee replacement	52	1	21	3	27	Not significant
Surgical site infections at acute care hospitals among outpatient procedures						
Abdominal hysterectomy	44	0	3	2	39	Worse
Breast surgery	48	0	15	4	29	Not significant
Colon surgery	18	0	0	0	18	Suppressed ¹
Hip replacement	45	1	2	0	42	Not significant
Knee replacement	46	1	11	0	34	Better
Surgical site infections at ambulatory surgery centers among outpatient procedures						
Breast surgery	22	0	5	2	15	Not significant
Hernia	27	0	3	1	23	Not significant
Hip replacement	21	0	21	0	0	Not available ²
Knee replacement	25	0	25	0	0	Worse
Surgical site infections at critical access hospitals among inpatient procedures						
Abdominal hysterectomy	19	0	0	0	19	Not significant
Breast surgery	19	0	0	0	19	Suppressed ¹

	Number of facilities reporting data	Number of facilities better than national benchmark	Number of facilities same as national benchmark	Number of facilities worse than national benchmark	Number of facilities for which data are suppressed	Comparison: Colorado to national benchmark
Colon surgery	19	0	0	0	19	Not significant
Hip replacement	21	0	0	0	21	Not significant
Knee replacement	21	0	1	0	20	Not significant
Surgical site infections at critical access hospitals among outpatient procedures						
Abdominal hysterectomy	2	0	0	0	2	Suppressed ¹
Breast surgery	8	0	0	0	8	Suppressed ¹
Colon surgery	3	0	0	0	3	Suppressed ¹
Hip replacement	9	0	0	0	9	Suppressed ¹
Knee replacement	15	0	0	0	15	Not significant
<p>¹ Calculation of comparison is not available due to data suppression for one of the following reasons: Procedure count was less than 20; Less than 50 central line days were reported; or the predicted number of infections was less than one. SIRs are not available for dialysis facilities.</p> <p>² National comparison models were not available at the time of this report.</p> <p>Note: Dialysis event data are reported separately below.</p>						

Data source: National Healthcare Safety Network.

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Date: July 15, 2023

Number of pages: 160

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This report fulfills reporting requirements set forth in the disclosure law and is the 15th annual report published by the Colorado Department of Public Health and Environment. The report presents information about HAI reporting requirements, processes and limitations, functions of implementing the disclosure law, and HAI data submitted by Colorado health care facilities on catheter-associated urinary tract infections (CAUTIs), central line-associated bloodstream infections (CLABSIs), *Clostridioides difficile* infections, dialysis-related infections, and surgical site infections (SSIs). The report contains new HAI data from Jan. 1-Dec. 31, 2022, with 2021 data included for comparison.

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Introduction

Healthcare-associated infections (HAIs) are infections that patients acquire during treatment for other conditions within a health care setting. HAIs included in this report include infections associated with urinary catheters (tubes placed in the bladder), central lines (catheters/tubes placed in veins for treatment infusions), *Clostridioides difficile* (a bacteria found in health care settings), dialysis treatment, and surgeries. HAIs can be devastating to patients and families. About 3% of patients in U.S. hospitals have a HAI.¹⁻² They can cause significant financial burden due to additional treatments, procedures, and lost wages. HAIs can cause pain, suffering, and death. Recognizing the seriousness of HAIs, Colorado passed the HAI Disclosure Law in 2006, which was revised and updated in 2016 (Section 25-3-601-607, C.R.S.).³ Administrative changes in 2016 included a change in reporting time frame from fiscal to calendar year and a change in the annual report submission date to the Colorado General Assembly from January 15 to July 15 of each year. Changes in 2016 also included a change to the definition of health care facility to include “all state licensed or certified facilities submitting data to the National Healthcare Safety Network (NHSN).”⁴ This definition currently includes acute care hospitals, critical access hospitals, long-term acute care hospitals, inpatient rehabilitation facilities, ambulatory surgery centers, and dialysis facilities. It may also include additional facility types as they report to NHSN. These facility types are required to report designated HAI data as a condition of state licensure. Methicillin-resistant *Staphylococcus aureus* is reported per a Board of Health requirement and not included in this report.

The disclosure law mandates certain health care facilities report their HAI data to the Colorado Department of Public Health and Environment through the National Healthcare Safety Network (NHSN), a national web-based surveillance and reporting system managed by Centers for Disease Control and Prevention.³⁻⁴ The use of NHSN improves the validity of reported HAI data because facilities must use standard definitions and reporting rules. Reporting consistency allows CDPHE to compare Colorado facility HAI data to a national baseline.

The report presents information about HAI reporting requirements, processes, and limitations; the HAI disclosure law; and HAI data submitted by Colorado health care facilities on catheter-associated urinary tract infections (CAUTIs), central line-associated bloodstream infections (CLABSIs), hospital-onset *Clostridioides difficile* infections, dialysis-related infections, and selected surgical site infections (SSIs). All data presented in this report were submitted for patients receiving treatment or having procedures during 2022. HAI data from 2021 have previously been published and are included for comparison. A glossary of terms is available in **Appendix A**.

Of note, the COVID-19 pandemic was associated with national increases in rates of HAIs other than *C. difficile* in 2020 and 2021. This association is thought to be related to changes in patient care and infection control practices necessary to care for patients who were more ill than others.⁵ Therefore, the 2021 data presented in this report may reflect effects during the pandemic. Effects of the pandemic on HAIs in 2022 have not been fully evaluated.

Healthcare-associated infections disclosure law

Implementing Colorado’s healthcare-associated infections (HAI) Disclosure Law involves four main functions,³ as described below:

1. Appointment of an HAI advisory committee.
2. Selection of conditions to be reported.
3. Oversight of data entered into the National Healthcare Safety Network (NHSN).
4. Public reporting of results by facility.

Committee members

Current Members (2022)

Sara Colvard, MSN

Chase Currie, MPH, CIC

Jennifer Dougan, CIC

Michelle Graves, RN

Christine Lentz, BS, MBA

Erin Minnerath, MSPH, CIC

David Pflueger, MBA, Advisory Committee Chair

Larissa Pisney, MD

Emma Stein, MPH

Carolyn Valdez, MS

William Wright, MD, Advisory Committee Co-Chair

Past Members (2021)

Kimberly Montejano, RN

Appointment and coordination of the HAI Advisory Committee

Colorado’s HAI disclosure law requires the Department’s executive director to appoint an 11-member HAI Advisory Committee with the following composition:

- One representative from an urban hospital.
- One representative from a rural hospital.
- One board-certified or board-eligible physician licensed in Colorado who is affiliated with a Colorado hospital or medical school and an active member of a national organization specializing in healthcare epidemiology or infection control.
- Four infection control practitioners (one from a stand-alone ambulatory surgery center, one certified in infection control and epidemiology, one from a long-term care setting, and one other health care professional).
- One medical statistician or clinical microbiologist with an advanced degree.
- One representative from a health consumer organization.
- One representative from a health insurer.
- One purchaser of health insurance.

Role of the HAI Advisory Committee

The primary role of the Advisory Committee is to provide oversight and guidance to the Department for the collection, analysis, and publication of HAI data from health facilities according to C.R.S. 25-3-601-607. The Advisory Committee may advise the HAI/AR program on other issues as needed.

Selection of clinical metrics

The current HAI reporting metrics include infections related to urinary catheters, central lines, *Clostridioides difficile* (*C. difficile*), outpatient dialysis treatment, and surgeries (Table 2).⁶ Urinary catheters are tubes placed in the bladder to facilitate urination. Central lines are tubes placed in a vein to infuse fluids or medications. These devices can cause catheter-associated urinary tract infections (CAUTIs) and central line-associated bloodstream infections (CLABSIs), respectively. *C. difficile* infection is a diarrheal disease that generally occurs in patients prescribed antibiotics and exposed to a health care setting. Dialysis-related infections include bloodstream infections related to the vascular access site. Dialysis patients are at high risk for infection due to frequent hospitalizations and weakened immune systems. Surgeries for which surgical site infections (SSIs) are reported were selected based on their high volume and risk for infection.

In selecting metrics, the following factors were considered:⁷

- Impact - Extent to which the infection affects the patient or family (disability, mortality, and economic costs).
- Improvability - Extent to which reporting infection improves practice to prevent the infection.
- Frequency - How often the infection occurs.
- Feasibility - Ability for the data to be collected with minimal burden on the facilities.
- Functionality - Extent to which the data are accurate and the intended audience (patients, care providers, and hospital administrators) can understand and apply the results.

Table 2. Colorado healthcare-associated infection reporting metrics.

Facility type	Reported HAI	Reporting hospital unit(s)
Acute care hospitals ¹	<ul style="list-style-type: none"> ● Breast surgical site infections (SSIs). ● Colon SSIs. ● Hip replacement SSIs. ● Knee replacement SSIs. ● Abdominal hysterectomy SSIs. 	Inpatient and attached outpatient operating rooms.
	<ul style="list-style-type: none"> ● Central line-associated bloodstream infections (CLABSIs). 	Adult and pediatric critical care units, medical, surgical, and medical-surgical wards.
		Neonatal critical care units level II/III and III.
		Inpatient rehabilitation wards.
	<ul style="list-style-type: none"> ● Catheter-associated urinary tract infections (CAUTIs). 	Adult and pediatric critical care units, medical, surgical, and medical-surgical wards.
<ul style="list-style-type: none"> ● <i>Clostridioides difficile</i> infections. 	Facility-wide inpatient.	
Critical access hospitals	<ul style="list-style-type: none"> ● Breast SSIs. ● Colon SSIs. ● Hip replacement SSIs. ● Knee replacement SSIs. ● Abdominal hysterectomy SSIs. 	Inpatient and outpatient operating rooms.
	<ul style="list-style-type: none"> ● CLABSIs. 	Adult critical care units.
Long-term acute care hospitals	<ul style="list-style-type: none"> ● CLABSIs. 	All bedded inpatient locations.
	<ul style="list-style-type: none"> ● CAUTIs. 	All bedded inpatient locations.
	<ul style="list-style-type: none"> ● <i>Clostridioides difficile</i> infections. 	Facility-wide inpatient.

Facility type	Reported HAI	Reporting hospital unit(s)
Inpatient rehabilitation facilities (freestanding)	● CLABSIs.	All bedded inpatient locations.
	● CAUTIs.	All bedded inpatient locations.
	● <i>Clostridioides difficile</i> infections.	Facility-wide inpatient.
Ambulatory surgery centers	<ul style="list-style-type: none"> ● Breast SSIs. ● Hernia repair SSIs. ● Hip replacement SSIs. ● Knee replacement SSIs. 	All outpatient operating rooms.
Outpatient dialysis facilities	● Dialysis events.	All outpatient facilities.

¹ Of these conditions, freestanding pediatric hospitals only report CLABSIs in neonatal critical care units.

Data source: National Healthcare Safety Network.

Oversight and validation of data

Colorado’s health care facilities grant the Department access to data entered into NHSN, allowing CDPHE to monitor, analyze, and produce public reports. NHSN maintains stringent policies and rules to ensure data security, integrity, and confidentiality in strict accordance to federal laws.

Colorado’s HAI disclosure law requires health care facilities to report HAI data on a quarterly basis. The Department provides guidance and technical assistance to ensure the timely and accurate reporting of data. CDPHE also performs systematic monitoring and selected validation of the HAI data submitted, which allows for the identification and correction of incomplete and incorrectly entered data. The Department completed data validation studies for abdominal hysterectomies in acute care hospitals (2016), central line-associated bloodstream infections in long-term acute care hospitals and inpatient rehabilitation facilities (2018), and dialysis-related infections (2018). CDPHE is currently conducting validation of catheter-associated urinary tract infections and surgical site infections following colon surgeries in acute care hospitals in 2023.

The HAI disclosure law also specifies requirements for health care facility employees who collect and report HAI data.³ The reporter must be certified in infection control and epidemiology or become certified within six months after becoming eligible to take the certification test as recommended by the Certification Board of Infection Control and Epidemiology, Inc., or its successor. These certification requirements do not apply to staff in hospitals with 50 or fewer beds, dialysis facilities, ambulatory surgery centers, or long-term care facilities.

Participating facilities

In 2022, 53 acute care hospitals, 30 critical access hospitals, one pediatric hospital, six long-term acute care hospitals, seven inpatient rehabilitation facilities, 59 ambulatory surgery centers, and 78 dialysis facilities reported healthcare-associated infection (HAI) data into the National Healthcare Safety Network (NHSN) accessible to the Department. Table 3 shows the number of hospitals that report catheter-associated urinary tract infections (CAUTIs), central line-associated bloodstream infections (CLABSIs), and *C. difficile* infections by type of care unit. Table 4 lists reportable surgical procedures and the numbers of hospitals and ambulatory surgery centers that reported them. Facility types are defined in Appendix B.

Table 3. Health care facilities and units reporting catheter-associated urinary tract infections, central line-associated bloodstream infections, and *C. difficile* infections – Colorado, 2022.

Facility type/unit	Number of facilities		
	Catheter-associated urinary tract infections	Central line-associated bloodstream infections	<i>C. difficile</i> infections
Acute care hospitals	53	53	53
Adult and pediatric critical care units in acute care hospitals	45	45	--- ¹
Level II/III neonatal critical care units in acute care hospitals	--- ¹	21	--- ¹
Wards in acute care hospitals	51	51	--- ¹
Inpatient rehabilitation wards in acute care hospitals	9	9	10
Inpatient rehabilitation facilities	6	6	6
Long-term acute care hospitals	6	6	6
Pediatric hospitals	--- ¹	1	--- ¹

¹ Facility type does not report these conditions.

Data source: National Healthcare Safety Network.

Table 4. Health care facilities reporting surgical site infections by procedure type – Colorado, 2022.

Procedure type	Number of acute care hospitals	Number of critical access hospitals	Number of ambulatory surgery centers	Number of facilities (total)
Abdominal hysterectomy	51	19	--- ¹	73
Breast surgery	51	19	22	92
Colon surgery	51	19	--- ¹	70
Hernia surgery	--- ¹	--- ¹	27	27
Hip replacement	52	21	21	94
Knee replacement	52	21	25	98

¹ Facility type does not report these conditions.

Data source: National Healthcare Safety Network.

Healthcare-associated infections in the report

Catheter-associated urinary tract infections (CAUTIs)

A CAUTI is an infection involving any part of the urinary system, including urethra, bladder, ureters, and kidney where an indwelling urinary catheter (tube) was in place for more than two consecutive days.^{8,9} The most important risk factor for CAUTI is prolonged use of a urinary catheter. In September 2021, the HAI Advisory Committee voted to include CAUTIs on adult and pediatric critical care units and selected wards (medical, surgical, and medical/surgical) within acute care hospitals, long-term acute care hospitals, and inpatient rehabilitation facilities in the HAI annual report. The denominator for the rates of CAUTI in this report is the number of catheter-days reported by the health care facility. The number of catheter-days is the total number of days a catheter was in place for patients in the unit during the reporting period (for example, if three patients each had a catheter for 10 days, the number of catheter-days is 30).

Central line-associated bloodstream infections (CLABSIs)

A CLABSI is a laboratory-confirmed infection of the blood where a central line is in place for more than two consecutive days.^{8,10} A central line is an intravascular catheter (tube) that terminates at or close to the heart, or in one of the large blood vessels of the body, and is used for infusion, withdrawal of blood, or hemodynamic monitoring. The most important risk factor for CLABSI is prolonged use of an intravascular catheter. Based on the high incidence and potential severity of CLABSIs, in 2017, Colorado's HAI Advisory Committee recommended the addition of acute care hospital wards to Colorado reporting requirements for acute care hospitals (critical access hospitals and stand-alone children's hospitals exempt) for data collected since 2015. In 2018, the committee recommended inclusion of this data in the annual report. The denominator for the rates of CLABSI in this report is the number of central-line days reported by the health care facility. The number of central line-days is the total number of days a central line was in place for patients in the unit during the reporting period (for example, if three patients each had a central line for 10 days, the number of central line-days is 30).

Clostridioides difficile (*C. difficile*) infections

Clostridioides difficile (*C. difficile*) is a bacterium that causes diarrhea and inflammation of the colon, and, in some cases, sepsis and death.¹¹ The most important risk factor for *C. difficile* is antibiotic use and exposure to *C. difficile* spores. *C. difficile* can be acquired during an inpatient stay in a health care facility, but it may also be acquired in outpatient health care settings or in the community. In 2015, Colorado's HAI Advisory Committee recommended the addition of *C. difficile* to Colorado reporting requirements for acute care hospitals (critical access hospitals and stand-alone children's hospitals are exempt), long-term acute care hospitals, and inpatient rehabilitation.⁶ Acute care hospitals reported data collected since 2013, while long-term acute care hospitals and inpatient rehabilitation facilities reported data collected since 2015. These health care facilities report laboratory tests positive for *C. difficile* from clinical samples collected from inpatients. This report only includes health care facility-onset *C. difficile* infection, including cases identified from specimens collected more than three days after admission to the facility (i.e., on or after Day Four), excluding duplicates.⁸ The

denominator for the rates of *C. difficile* in this report is the number of patient-days reported by the health care facility. The number of patient-days is the total number of days a patient was admitted during the reporting period (for example, if three patients each were admitted for 10 days, the number of patient-days is 30).

Access-related bloodstream infections (ARBSIs)

Dialysis is a medical treatment for people with kidney failure or kidneys that do not work properly. A vein access, also known as a vascular access, is needed to move blood between a patient's body and the dialysis machine during hemodialysis treatments. Types of vascular access include an arteriovenous (AV) fistula (an access created by joining an artery and vein, typically in the arm), a graft (an access created when doctors put in a tube that connects an artery and vein), and a central line catheter (designed for short-term use). Infection can occur when a germ enters the bloodstream through or around the vascular access.¹² An ARBSI is defined by the presence of a microorganism identified in a blood culture with the suspected source of infection reported to be the vascular access site or uncertain.⁸ Surveillance for dialysis-related infections in Colorado occurs within outpatient dialysis facilities only and excludes peritoneal and home dialysis. The outpatient dialysis facilities monitored may be dedicated stand-alone facilities, hospital-based, or affiliated units. The reporting of dialysis-related infections began in March 2010. Local access infections (LAIs; pus, redness, or increased swelling of the vascular access site) are not included in the Colorado HAI Annual Report as of 2019.⁶ The denominator for the rates of ARBSI in this report is the number of patient-months reported by the health care facility. The number of patient-months is the total number of months a patient received dialysis at the center (for example, if three patients each received dialysis for 10 months, the number of patient-months is 30). Rates of ARBSI are not risk-adjusted (i.e., the rate does not account for differences in facility or patient characteristics) and comparisons to the national baseline are not available.

Surgical site infections (SSIs)

A SSI is an infection that occurs after surgery in the part of the body where the surgery took place. SSIs can sometimes be superficial infections involving the skin only. Other surgical site infections are more serious and can involve tissues under the skin, organs, or implanted material.¹³ Surgical procedures required for SSI reporting are selected based on several factors: (1) The volume of surgeries performed, (2) the variety of facilities at which the surgeries are performed, and (3) the association with increased SSIs. The surgeries monitored for SSI in Colorado include: Breast (acute care hospitals, critical access hospitals, and ambulatory surgery centers), colon (acute care and critical access hospitals), hernia repairs (ambulatory surgery centers), hip replacement (acute care hospitals, critical access hospitals, and ambulatory surgery centers), abdominal hysterectomies (acute care and critical access hospitals), and knee replacements (acute care hospitals, critical access hospitals, and ambulatory surgery centers).⁶ The HAI Advisory Committee voted to remove SSIs following abdominal and vaginal hysterectomies in ambulatory surgery centers from the list of reportable conditions included in the Colorado HAI Annual Report in 2022, beginning with 2021 data. This was due to the lack of an ability to risk-adjust rates through NHSN and because the low number of procedures led to suppression of most of the data from the HAI annual report. SSIs in pediatric patients were removed from the HAI annual report in 2019.

Surgeries are performed as either inpatient or outpatient procedures. Surgical procedures and SSIs reported in Colorado include only adult patients (at least 18 years old) for acute care hospitals and critical access hospitals. Surgical procedures reported by ambulatory surgery centers include patients of all ages. However, only adult data are presented in this report for ambulatory

surgery centers, as current NHSN analysis only includes adult patients. The denominator for the rates of SSI in this report is the number of procedures reported by the health care facility.

Breast surgeries. Breast surgeries involve at least one incision to the patient's skin. Acute care hospitals, critical access hospitals, and ambulatory surgery centers report SSIs following breast procedures.⁶ There are 36 types of breast procedures that are reportable into NHSN and include an open biopsy of the breast, local excision of a lesion of the breast, insertion and removal of breast implants, and radical mastectomies, among others. Breast surgeries are monitored for 30 days for superficial SSIs and 90 days for all other SSIs.⁸ Rates of SSI following breast surgery are presented by facility type and inpatient versus outpatient status. NHSN defines an inpatient operative procedure as a procedure on a patient whose date of admission to the health care facility and date of discharge are different calendar days. An outpatient operative procedure occurs when a patient is admitted and discharged on the same calendar day.⁸

Colon surgeries. Colon procedures involve surgery of the large intestine. Because the intestines have bacteria, colon surgeries have a high risk for contamination and infection. Colon surgeries are monitored for 30 days for all SSIs.⁸ Colorado facilities that are required to report colon surgeries include acute care and critical access hospitals.⁶ All colon surgeries at acute care and critical access hospitals are reportable through NHSN to the state of Colorado. Data are presented by facility type and inpatient versus outpatient status. NHSN defines an inpatient operative procedure as a procedure on a patient whose date of admission to the health care facility and date of discharge are different calendar days. An outpatient operative procedure occurs when a patient is admitted and discharged on the same calendar day.⁸

Hernia surgeries. A hernia surgery involves the repair of a hernia, which is a bulging of internal organs or tissues that protrude through an abnormal opening in the muscle wall. Hernia procedures reportable to NHSN include inguinal, femoral, umbilical, or anterior abdominal wall repairs. Hernia repairs are monitored for 30 days for superficial SSIs and 90 days for all other SSIs.⁸ SSIs following hernia repairs are reportable by ambulatory surgery centers.⁶ An outpatient operative procedure occurs when a patient is admitted and discharged on the same calendar day.⁸

Hip replacement surgeries. A total or partial hip replacement is a surgery for people with severe hip damage or pain related to chronic osteoarthritis, rheumatoid arthritis, or other degenerative processes involving the hip joint. Hip replacements are monitored for 30 days for superficial SSIs and 90 days for all other SSIs.⁸ SSIs following hip replacement surgeries are reportable by acute care hospitals, critical access hospitals, and ambulatory surgery centers.⁶ Data are presented by facility type and inpatient versus outpatient status. NHSN defines an inpatient operative procedure as a procedure on a patient whose date of admission to the health care facility and the date of discharge are different calendar days. An outpatient operative procedure occurs when a patient is admitted and discharged on the same calendar day.⁸

Hysterectomies. In the past, hysterectomies were performed by making a large abdominal incision to access the uterus and surrounding anatomy. This traditional, open abdominal surgery often causes significant pain, threat to surrounding organs and nerves, long recovery periods, and a higher risk of bleeding and infection. Surgeons now typically use less invasive techniques, such as vaginal hysterectomies and abdominal hysterectomies, using smaller incisions and scopes. In vaginal hysterectomies, the procedure is completed through the vagina with no abdominal incisions. Compared to traditional, open abdominal hysterectomies, vaginal hysterectomies have been shown to result in fewer surgical complications and infections. Abdominal hysterectomies are monitored for 30 days for all SSIs.⁸ SSIs following abdominal hysterectomies are reportable by acute care and critical access hospitals. The HAI Advisory Committee removed SSIs following abdominal and vaginal hysterectomies from the reporting

requirements of ambulatory surgical centers in 2022, beginning with removing 2021 data from the HAI annual report.⁶ Abdominal and vaginal hysterectomies are monitored for 30 days for all SSIs.⁸

Knee replacement surgeries. A total or partial knee replacement is a surgery for people with severe knee damage and pain related to osteoarthritis, rheumatoid arthritis, or traumatic arthritis. Knee replacements are monitored for 30 days for a superficial SSI and 90 days for all other SSIs.⁸ SSIs following knee replacement surgeries are reportable by acute care hospitals, critical access hospitals, and ambulatory surgery centers.⁶ Data are presented by facility type and inpatient versus outpatient status. NHSN defines an inpatient operative procedure as a procedure on a patient whose date of admission to the health care facility and the date of discharge are different calendar days. An outpatient operative procedure occurs when a patient is admitted and discharged on the same calendar day.⁸

Interpreting the data

This report presents various forms of HAI data: Infection counts and rates from all Colorado facilities combined (aggregate data), infection counts and rates for each individual facility (facility-specific data), and for some conditions, infection counts and rates from units within a facility (unit specific data).

Counts and denominators. Tables include the number of infections and a denominator. Depending on the type of infection, the denominator may include catheter- or central line-days (for CAUTIs and CLABSIs), patient-days (for *C. difficile*), patient-months (for ARBSIs), or number of surgeries (for SSIs). Catheter- and central line-days are measures of the number of patients with these devices multiplied by the number of days that the devices were in place. Patient-days is a measure of the number of patients multiplied by the number of days they were in the facility. Patient-months is a similar measure, multiplying the number of patients by the number of months of care.

National comparisons. National comparisons are shown for conditions and facility types when available through NHSN. National comparisons using standardized infection ratios (SIRs) compare the rate of infections reported by the health care facility to the expected rate of infections for U.S. facilities with similar characteristics and/or patients.⁸ A test of statistical significance describes the probability of observing a similar or greater difference between the infection rate and national baseline rate even if, in truth, the rates were the same (i.e., a statistically significant difference versus a difference due to chance). This is described in greater detail in **Appendix C**.

Interpretation of the SIR.¹⁴

- If the SIR is less than one and the difference is statistically significant, the facility has significantly fewer HAIs than expected and is designated as “better” than the national baseline.
- If the difference is statistically significant and the SIR is greater than one, the facility has significantly more infections than predicted and is designated as “worse” than the national baseline.
- If there is no significant difference between the facility’s observed and predicted number of infections, regardless of the SIR, the facility is designated as “not significant” to the national baseline.

If the SIR is not available. For dialysis access-related bloodstream infections (ARBSIs), unadjusted observed rates are presented. This is because SIRs are not available.

Data suppression. To prevent patients from being identified and protect patient privacy, data were suppressed from the tables if the number of infections and/or the denominator (e.g., the number of surgical procedures) was small. For CAUTI, data were suppressed if the predicted number of infections was less than one or fewer than 50 catheter-days were reported in the calendar year. For CLABSI, data were suppressed if the predicted number of infections was less than one or fewer than 50 central-line days were reported in the calendar year. For *C. difficile* infection, data were suppressed if the predicted number of infections was less than one or the facility had fewer than 50 patient-days in the calendar year. For SSIs, data were suppressed if the predicted number of infections was less than one or fewer than 20 procedures were reported in the calendar year.

Considerations and limitations

CDPHE and the Colorado HAI Advisory Committee recommend caution when drawing conclusions from these data for multiple reasons. For one, direct comparisons between facilities may not provide the most accurate assessment because infection rates are influenced by the types of patients treated. Facilities that treat higher volumes of severely ill patients may have higher infection rates regardless of their prevention efforts. While the NHSN system provides the best risk adjustment possible to account for this, at present, by using the SIR, there always will be patient risk factors that cannot be measured (e.g., patient ability to heal, smoking cessation days, severe suppression of the immune system) that contribute to infection risk. Additionally, a calculated SIR is not available for all conditions. Therefore, additional caution should be applied when interpreting a comparison of rates, which are not adjusted for risk.

Second, rates may be influenced by differences in how facilities detect infections. The NHSN surveillance manuals are developed by CDC subject matter experts. Although the definitions and criteria are updated each year, they can be challenging to apply to patients with complicated medical histories. Additionally, facilities use different surveillance techniques to find infections. Some infection preventionists have more resources for surveillance and may subsequently find and report more infections than other facilities. In those cases, higher infection rates may be based on better surveillance practices rather than poor infection control practices. Ambulatory surgery centers traditionally report lower numbers of SSIs than hospitals, which may be due, in part, to reduced opportunity to conduct post-surgical follow-up with patients and surgeons.

Third, facilities report their own data. Standardized reporting definitions reduce bias related to self-report. However, it can be challenging for facilities to identify all infections consistently using reporting definitions. Although data validation studies have been completed in past years for selected HAIs, validation is not performed on every infection, nor on every condition reported each year.

Finally, the COVID-19 pandemic was associated with national increases in rates of HAIs in 2020 that persisted into 2021. In 2020, there were increases in rates of central line-associated bloodstream infection, catheter-associated urinary tract infection, ventilator-associated events, and methicillin-resistant *Staphylococcus aureus* bacteremia compared to 2019. Rates of these HAIs remained elevated in 2021. *Clostridioides difficile* rates decreased in 2020 and 2021.

Changes to hospital practices, longer patient lengths of stay, additional co-morbidities and higher patient acuity levels, longer and more frequent use of devices, as well as improvements in hand hygiene, personal protective equipment practices, and environmental cleaning in the health care settings likely contributed to these findings.⁵ The 2021 data presented in this report may reflect national trends. The impact of COVID-19 on HAIs in 2022 has not been described.

For comparison, 2021 HAI data are included within the tables of the report. Some 2021 data may appear different than previously reported if facilities entered additional data into NHSN after the 2021 reporting deadline.

CDPHE recommends conclusions regarding health care quality be made in conjunction with other quality indicators. The public should consult with doctors, health care facilities, health insurance carriers, health care websites from reputable sources, and with loved ones before deciding where to receive care. Ideally, facilities will use the data in this report to target and improve infection prevention efforts, and the public will use the data to make better-informed health care decisions.

Colorado state-level data

Aggregate catheter-associated urinary tract infection data

Overall rates of CAUTI in acute care hospitals were lower (better) than the national baseline in 2022. Rates of CAUTI in adult and pediatric critical care units and inpatient wards in acute care hospitals were lower (better) than the national baseline. Rates of CAUTI in long-term acute care hospitals and inpatient rehabilitation facilities were similar to (not significantly different from) the national baseline (Table 5).

Table 5. Catheter-associated urinary tract infections in health care facilities by facility/unit type – Colorado, Jan. 1, 2021 - Dec. 31, 2022.

Facility/unit type	2021				2022			
	Number of catheter days	Number of infections	SIR	National comparison	Number of catheter days	Number of infections	SIR	National comparison
Acute care hospitals	263,669	211	0.6	Better	233,963	154	0.5	Better
Acute care hospitals, adult and pediatric critical care units	155,618	141	0.6	Better	125,815	78	0.4	Better
Acute care hospitals, adult and pediatric inpatient wards	108,051	70	0.7	Better	108,148	76	0.7	Better
Long-term acute care hospitals	24,288	59	1.2	Worse	25,685	56	1.0	Not significant
Inpatient rehabilitation facilities	5,305	9	1.2	Not significant	5,210	12	1.8	Not significant

SIR, standardized infection ratio (ratio of observed to predicted infection rates).

Data source: National Healthcare Safety Network.

Note: Some 2021 data may appear different than previously reported if facilities entered additional data into NHSN after the 2021 reporting deadline.

Aggregate central line-associated bloodstream infection data

Rates of central line-associated bloodstream infection (CLABSI) in acute care hospitals were lower (better) than the national baseline in 2022 overall and in adult and pediatric critical care units and inpatient wards. Rates of CLABSI in inpatient rehabilitation wards and neonatal critical care units within acute care hospitals, neonatal critical care units within freestanding pediatric hospitals, and inpatient rehabilitation facilities were similar to (not significantly different from) the national baseline in 2022. Rates of CLABSI in critical access hospitals were suppressed, and comparison to the national baseline was not possible. Comparison of rates of CLABSI in long-term acute care hospitals to the national baseline was not possible (Table 6).

Table 6. Central line-associated bloodstream infections in health care facilities by facility/unit type – Colorado, Jan. 1, 2021 - Dec. 31, 2022.

Facility/ unit type	2021				2022			
	Number of central line- days	Number of infections	SIR	National comparison	Number of central-line days	Number of infections	SIR	National comparison
Acute care hospitals ¹	280,025	238	0.9	Better	252,988	172	0.7	Better
Acute care hospitals, adult and pediatric critical care units	148,523	165	1.1	Not significant	120,703	100	0.8	Better
Acute care hospitals, adult and pediatric inpatient wards	123,041	68	0.6	Better	122,344	63	0.6	Better
Acute care hospitals, inpatient rehabilitation wards	4,842	1	0.4	Not significant	4,434	3	1.3	Not significant
Acute care hospitals, neonatal critical care units	8,461	5	0.4	Better	9,941	9	0.6	Not significant
Critical access hospitals, critical care units	170	0	N/A	Suppressed ²	107	0	N/A	Suppressed ²
Freestanding pediatric hospitals, neonatal critical care units	6,383	9	1.3	Not significant	5,751	13	1.8	Not significant

Facility/ unit type	2021				2022			
	Number of central line- days	Number of infections	SIR	National comparison	Number of central-line days	Number of infections	SIR	National comparison
Inpatient rehabilitation facilities	5,632	0	0.0	Not significant	6,603	2	0.7	Not significant
Long-term acute care hospitals	19,342	6	N/A	Not available ³	19,453	7	N/A	Not available ³

¹ Excludes rehabilitation wards. Includes adult and pediatric critical care units, inpatient wards, and neonatal critical care units; ² Calculation of comparison is not available due to data suppression for one of the following reasons: The number of central line-days was fewer than 30, or the predicted number of infections was less than one. ³ National comparison models were not available at the time of this report.

SIR, standardized infection ratio (ratio of observed to predicted infection rates); N/A, not applicable.

Data source: National Healthcare Safety Network.

Note: Some 2021 data may appear different than previously reported if facilities entered additional data into NHSN after the 2021 reporting deadline.

Aggregate *Clostridioides difficile* data

Rates of *C. difficile* in acute care hospitals, inpatient rehabilitation facilities, and long-term acute care hospitals were lower (better) than the national baseline in 2022 (Table 7).

Table 7. *Clostridioides difficile* infections in health care facilities by facility type – Colorado, Jan. 1, 2021 - Dec. 31, 2022.

Facility type	2021				2022			
	Number of patient-days	Number of infections	SIR	National comparison	Number of patient-days	Number of infections	SIR	National comparison
Acute care hospitals	1,919,267	607	0.5	Better	1,871,406	482	0.4	Better
Inpatient rehabilitation facilities	73,901	11	0.4	Better	72,688	15	0.5	Better
Long-term acute care hospitals	97,042	51	0.5	Better	99,926	39	0.4	Better

SIR, standardized infection ratio (ratio of observed to predicted infection rates).

Data source: National Healthcare Safety Network.

Note: Some 2021 data may appear different than previously reported if facilities entered additional data into NHSN after the 2021 reporting deadline.

Aggregate dialysis infection data

In 2022, the rate of access-related bloodstream infection (ARBSI) was 0.21 per 100 person-months (Table 8). The pooled national rate was 0.31 per 100 person-months. Risk adjustment using the standardized infection ratio (SIR) and statistical testing to compare these rates were unavailable.

Table 8. Access-related bloodstream infections in outpatient dialysis facilities – Colorado, Jan. 1, 2021 - Dec. 31, 2022.

Facility type	2021				2022			
	Number of patient-months	Number of infections	Infection rate	National comparison	Number of patient-months	Number of infections	Infection rate	National comparison
Outpatient dialysis facilities	45,348	102	0.22	... ¹	43,733	90	0.21	... ¹
¹ Statistical comparison to the national rate of infection was not available. *Rates are per 100 patient-months. Note: These rates are not adjusted for risk.								

Data source: National Healthcare Safety Network.

Note: Some 2021 data may appear different than previously reported if facilities entered additional data into NHSN after the 2021 reporting deadline.

Aggregate surgical site infection data

In acute care hospitals, the rate of SSI following inpatient colon surgery in 2022 was lower (better) than the national baseline, and rates of SSI following inpatient breast surgery and hip replacement surgery were higher (worse) than the national baseline. Rates of SSI following inpatient abdominal hysterectomy and knee replacement surgery were similar to (not significantly different from) the national baseline (**Table 9**).

In acute care hospitals, the rate of SSI following outpatient knee replacement surgery was lower (better) than the national baseline, and the rate of SSI following outpatient abdominal hysterectomy was higher (worse) than the national baseline. Rates of SSI following outpatient breast and hip replacement surgeries were similar to (not significantly different from) the national baseline. The rate of SSI following outpatient colon surgery was suppressed and comparison to the national baseline was not possible (**Table 9**).

In critical access hospitals, rates of SSI in 2022 were similar to (not significantly different from) the national baseline for inpatient abdominal hysterectomy, colon surgery, hip replacement surgery, and knee replacement surgery. The rate of SSI following outpatient knee replacement surgery was similar to (not significantly different from) the national baseline. Rates of SSI for inpatient breast surgery and outpatient surgeries other than knee replacement were suppressed and comparison to the national baseline was not possible (**Table 10**).

In ambulatory surgery centers, the rate of SSI in 2022 following knee replacement surgery was higher (worse) than the national baseline. Rates of SSI following breast and hernia surgery were similar to (not significantly different from) the national baseline. Comparison of the rate of SSI following hip replacement surgery to the national baseline was not possible (**Table 11**).

Table 9. Surgical site infections in acute care hospitals – Colorado, Jan. 1, 2021 - Dec. 31, 2022.

Procedure type	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Inpatient surgeries								
Abdominal hysterectomy	4,769	67	1.0	Not significant	4,403	63	1.0	Not significant
Breast surgery	2,932	65	1.3	Worse	3,015	72	1.4	Worse
Colon surgery	5,319	198	0.8	Better	5,389	225	0.9	Better
Hip replacement	9,601	93	1.0	Not significant	9,164	118	1.3	Worse
Knee replacement	12,693	77	1.0	Not significant	11,808	83	1.1	Not significant
Outpatient surgeries								
Abdominal hysterectomy	3,648	23	1.3	Not significant	4,478	33	1.6	Worse
Breast surgery	9,393	51	0.8	Not significant	10,248	66	1.0	Not significant
Colon surgery	54	1	N/A	Suppressed ¹	66	0	N/A	Suppressed ¹
Hip replacement	2,257	8	0.6	Not significant	3,178	16	0.8	Not significant
Knee replacement	4,053	14	0.5	Better	5,409	16	0.5	Better
¹ Calculation of comparison is not available due to data suppression for one of the following reasons: The number of procedures was fewer than 20, or the predicted number of infections was less than one.								

SIR, standardized infection ratio (ratio of observed to predicted infection rates).

Data source: National Healthcare Safety Network.

Note: Some 2021 data may appear different than previously reported if facilities entered additional data into NHSN after the 2021 reporting deadline.

Table 10. Surgical site infections in critical access hospitals – Colorado, Jan. 1, 2021 - Dec. 31, 2022.

Procedure type	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Inpatient surgeries								
Abdominal hysterectomy	76	2	1.5	Not significant	66	0	0.0	Not significant
Breast surgery	23	--- ¹	N/A	Suppressed ¹	10	--- ¹	N/A	Suppressed ¹
Colon surgery	94	6	1.6	Not significant	121	3	0.7	Not significant
Hip replacement	422	3	0.8	Not significant	515	5	1.1	Not significant
Knee replacement	733	7	1.5	Not significant	791	6	1.1	Not significant
Outpatient surgeries								
Abdominal hysterectomy	14	--- ¹	N/A	Suppressed ¹	13	--- ¹	N/A	Suppressed ¹
Breast surgery	88	0	N/A	Suppressed ¹	62	0	N/A	Suppressed ¹
Colon surgery	1	--- ¹	N/A	Suppressed ¹	6	--- ¹	N/A	Suppressed ¹
Hip replacement	71	0	N/A	Suppressed ¹	138	3	N/A	Suppressed ¹
Knee replacement	87	1	N/A	Suppressed ¹	153	0	0.0	Not significant
¹ Calculation of comparison is not available due to data suppression for one of the following reasons: The number of procedures was fewer than 20, or the predicted number of infections was less than one.								

SIR, standardized infection ratio (ratio of observed to predicted infection rates); N/A, not applicable.

Analysis includes adult patients aged >=18 years.

Data source: National Healthcare Safety Network.

Note: Some 2021 data may appear different than previously reported if facilities entered additional data into NHSN after the 2021 reporting deadline.

Table 11. Surgical site infections in ambulatory surgery centers – Colorado, Jan. 1, 2021 - Dec. 31, 2022.

Procedure type	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Outpatient surgeries								
Breast surgery	6,223	11	0.6	Not significant	5,295	23	1.5	Not significant
Hernia surgery	4,814	8	0.8	Not significant	3,998	7	0.7	Not significant
Hip replacement	2,005	9	N/A	--- ¹	2,023	6	N/A	--- ¹
Knee replacement	3,407	11	5.6	Worse	3,386	7	3.6	Worse
¹ National comparison was unavailable.								

SIR, standardized infection ratio (ratio of observed to predicted infection rates); N/A, not applicable.

Analysis includes adult patients aged >=18 years.

Data source: National Healthcare Safety Network.

Note: Some 2021 data may appear different than previously reported if facilities entered additional data into NHSN after the 2021 reporting deadline.

Colorado facility-specific data

Catheter-associated urinary tract infections

Catheter-associated urinary tract infections in acute care hospitals

Fifty-three acute care hospitals reported CAUTI data in 2022 (Table 12). Ten acute care hospitals reported a rate of CAUTI that was better (lower) than the national baseline, and one reported a rate of CAUTI that was higher (worse) than the national baseline. Twenty-four acute care hospitals reported a rate of CAUTI that was similar to (not statistically different from) the national baseline. Rates of CAUTI were suppressed for 18 acute care hospitals, and comparisons to the national baseline were not possible.

Forty-five acute care hospitals reported CAUTI data from adult and pediatric critical care units, and 51 reported CAUTI data from adult and pediatric inpatient wards (Table 13). Seven acute care hospitals reported a rate of CAUTI on critical care units that was lower (better) than the national baseline. Two acute care hospitals reported a rate of CAUTI on wards that was lower (better) than the national baseline, and one reported a rate of CAUTI on wards that was higher (worse) than the national baseline.

Table 12. Catheter-associated urinary tract infections in acute care hospitals – Colorado, Jan. 1, 2021 - Dec. 31, 2022.

Facility name	2021				2022			
	Number of catheter-days	Number of infections	SIR	National comparison	Number of catheter-days	Number of infections	SIR	National comparison
Catheter-associated urinary tract infections								
Animas Surgical Hospital, LLC	65	0	N/A	Suppressed ¹	50	0	N/A	Suppressed ¹
Banner Fort Collins Medical Center	471	0	N/A	Suppressed ¹	445	0	N/A	Suppressed ¹
Centennial Hospital	99	0	N/A	Suppressed ¹	152	0	N/A	Suppressed ¹
Centura Avista Adventist Hospital	1,702	1	0.6	Not significant	1,587	0	0.0	Not significant
Centura Castle Rock Adventist Hospital	2,369	2	1.6	Not significant	2,965	2	1.0	Not significant
Centura Littleton Adventist Hospital	4,746	2	0.5	Not significant	4,447	3	0.8	Not significant
Centura Longmont United Hospital	1,555	2	1.2	Not significant	1,172	0	0.0	Not significant
Centura Mercy Hospital	3,201	5	2.9	Worse	2,679	1	0.7	Not significant
Centura Parker Adventist Hospital	5,876	0	0.0	Better	4,662	2	0.6	Not significant
Centura Penrose Hospital	10,271	4	0.3	Better	10,742	6	0.4	Better
Centura Porter Adventist Hospital	6,352	2	0.4	Not significant	5,093	2	0.4	Not significant
Centura St. Anthony Hospital	16,070	10	0.3	Better	15,359	14	0.6	Better
Centura St. Anthony North Hospital	5,972	2	0.3	Not significant	5,011	1	0.2	Better
Centura St. Elizabeth Hospital	544	0	N/A	Suppressed ¹	279	0	N/A	Suppressed ¹

Facility name	2021				2022			
	Number of catheter-days	Number of infections	SIR	National comparison	Number of catheter-days	Number of infections	SIR	National comparison
Centura St. Mary-Corwin Hospital	970	0	N/A	Suppressed ¹	665	0	N/A	Suppressed ¹
Community Hospital	1,363	2	N/A	Suppressed ¹	1,199	0	N/A	Suppressed ¹
Delta County Memorial Hospital	1,273	1	N/A	Suppressed ¹	1,083	2	N/A	Suppressed ¹
Denver Health Medical Center	12,508	18	0.9	Not significant	11,532	20	1.2	Not significant
Foothills Hospital	5,289	3	0.8	Not significant	4,755	5	1.5	Not significant
Good Samaritan Medical Center	6,450	5	0.9	Not significant	5,137	4	0.9	Not significant
Longs Peak Hospital	3,223	3	1.8	Not significant	3,505	4	2.2	Not significant
Lutheran Medical Center	5,456	3	0.6	Not significant	5,818	6	1.0	Not significant
McKee Medical Center	1,312	0	N/A	Suppressed ¹	897	0	N/A	Suppressed ¹
Medical Center of Aurora	7,596	4	0.4	Not significant	6,933	3	0.3	Better
Medical Center of the Rockies	9,521	7	1.0	Not significant	8,230	5	0.8	Not significant
Montrose Regional Health	1,939	4	4.0	Worse	1,463	0	N/A	Suppressed ¹
National Jewish Health	0	--- ²	N/A	N/A	0	--- ²	N/A	N/A
North Colorado Medical Center	7,934	15	1.5	Not significant	5,414	8	1.2	Not significant
North Suburban Medical Center	2,769	2	0.7	Not significant	2,210	0	0.0	Not significant
OrthoColorado Hospital at St. Anthony Medical Campus	1,426	0	N/A	Suppressed ¹	1,016	0	N/A	Suppressed ¹

Facility name	2021				2022			
	Number of catheter-days	Number of infections	SIR	National comparison	Number of catheter-days	Number of infections	SIR	National comparison
Parkview Medical Center, Inc.	13,883	3	0.2	Better	12,054	2	0.1	Better
Platte Valley Medical Center	3,881	5	1.8	Not significant	1,972	3	2.2	Not significant
Poudre Valley Hospital	5,712	11	1.5	Not significant	4,640	3	0.5	Not significant
Presbyterian St. Luke's Medical Center	3,543	7	1.6	Not significant	2,783	4	1.1	Not significant
Rose Medical Center	3,484	3	0.7	Not significant	2,519	1	0.3	Not significant
Saint Joseph Hospital	6,851	4	0.5	Not significant	5,579	1	0.1	Better
San Luis Valley Health	1,334	1	N/A	Suppressed ¹	1,075	0	N/A	Suppressed ¹
Sky Ridge Medical Center	6,201	10	1.3	Not significant	5,171	4	0.6	Not significant
St. Mary's Medical Center	9,099	6	0.5	Not significant	7,353	1	0.1	Better
St. Anthony Summit Medical Center	184	0	N/A	Suppressed ¹	208	0	N/A	Suppressed ¹
St. Francis Medical Center	3,694	2	0.4	Not significant	4,389	3	0.5	Not significant
Sterling Regional Medical Center	562	0	N/A	Suppressed ¹	478	0	N/A	Suppressed ¹
Swedish Medical Center	10,195	3	0.2	Better	9,292	4	0.2	Better
UCHealth Broomfield Hospital	140	0	N/A	Suppressed ¹	461	0	N/A	Suppressed ¹
UCHealth Grandview Hospital	65	1	N/A	Suppressed ¹	82	0	N/A	Suppressed ¹
UCHealth Greeley Hospital	3,208	4	2.4	Not significant	2,613	0	0.0	Not significant

Facility name	2021				2022			
	Number of catheter-days	Number of infections	SIR	National comparison	Number of catheter-days	Number of infections	SIR	National comparison
UCHealth Highlands Ranch Hospital	4,234	13	4.4	Worse	4,386	8	2.6	Worse
UCHealth Yampa Valley Medical Center	199	1	N/A	Suppressed ¹	190	0	N/A	Suppressed ¹
UCHealth Memorial Hospital Central	14,999	7	0.3	Better	14,866	7	0.3	Better
UCHealth at Memorial Hospital North	3,953	1	0.3	Not significant	3,555	4	1.1	Not significant
University of Colorado Hospital	36,931	31	0.5	Better	33,065	21	0.4	Better
Vail Health Hospital	1,202	1	N/A	Suppressed ¹	702	0	N/A	Suppressed ¹
Valley View Hospital Association	1,793	0	N/A	Suppressed ¹	2,030	0	0.0	Not significant

¹ Calculation of comparison is not available due to data suppression for one of the following reasons: The number of catheter-days was fewer than 50, or the predicted number of infections was less than one. ² Number of infections was unavailable.
Suppressed data are defined as "N/A"; N/A, not applicable.

SIR, standardized infection ratio (ratio of observed to predicted infection rates); N/A, not applicable.

Data source: National Healthcare Safety Network.

Note: Some 2021 data may appear different than previously reported if facilities entered additional data into NHSN after the 2021 reporting deadline.

Table 13. Catheter-associated urinary tract infections in acute care hospitals by location type – Colorado, Jan. 1, 2021 - Dec. 31, 2022.

Facility name	Unit type	2021				2022			
		Number of catheter-days	Number of infections	SIR	National comparison	Number of catheter-days	Number of infections	SIR	National comparison
Animas Surgical Hospital, LLC	Adult and pediatric critical care	N/A			N/A	N/A			N/A
	Adult and pediatric inpatient wards	65	0	N/A	Suppressed ¹	50	0	N/A	Suppressed ¹
Banner Fort Collins Medical Center	Adult and pediatric critical care	N/A			N/A	N/A			N/A
	Adult and pediatric inpatient wards	471	0	N/A	Suppressed ¹	445	0	N/A	Suppressed ¹
Centennial Hospital	Adult and pediatric critical care	1	--- ²	N/A	Suppressed ¹	0	--- ²	N/A	N/A
	Adult and pediatric inpatient wards	98	0	N/A	Suppressed ¹	152	0	N/A	Suppressed ¹
Centura Avista Adventist Hospital	Adult and pediatric critical care	813	0	N/A	Suppressed ¹	652	0	N/A	Suppressed ¹
	Adult and pediatric inpatient wards	889	1	N/A	Suppressed ¹	935	0	N/A	Suppressed ¹
Centura Castle Rock Adventist Hospital	Adult and pediatric critical care	1,378	2	N/A	Suppressed ¹	963	0	N/A	Suppressed ¹
	Adult and pediatric inpatient wards	991	0	N/A	Suppressed ¹	2,002	2	1.5	Not significant
Centura Littleton Adventist Hospital	Adult and pediatric critical care	3,209	0	0.0	Not significant	2,585	2	0.9	Not significant
	Adult and pediatric inpatient wards	1,537	2	1.6	Not significant	1,862	1	0.7	Not significant
Centura Longmont United Hospital	Adult and pediatric critical care	1,555	2	1.2	Not significant	1,172	0	0.0	Not significant
	Adult and pediatric inpatient	N/A			N/A	N/A			N/A

Facility name	Unit type	2021				2022			
		Number of catheter-days	Number of infections	SIR	National comparison	Number of catheter-days	Number of infections	SIR	National comparison
	wards								
Centura Mercy Hospital	Adult and pediatric critical care	2,479	5	3.7	Worse	1,752	1	N/A	Suppressed ¹
	Adult and pediatric inpatient wards	722	0	N/A	Suppressed ¹	927	0	N/A	Suppressed ¹
Centura Parker Adventist Hospital	Adult and pediatric critical care	3,524	0	0.0	Better	2,354	1	0.6	Not significant
	Adult and pediatric inpatient wards	2,352	0	0.0	Not significant	2,308	1	0.6	Not significant
Centura Penrose Hospital	Adult and pediatric critical care	5,843	3	0.4	Not significant	5,749	3	0.4	Not significant
	Adult and pediatric inpatient wards	4,428	1	0.2	Better	4,993	3	0.5	Not significant
Centura Porter Adventist Hospital	Adult and pediatric critical care	4,592	1	0.2	Not significant	3,061	0	0.0	Better
	Adult and pediatric inpatient wards	1,760	1	0.7	Not significant	2,032	2	1.0	Not significant
Centura St. Anthony Hospital	Adult and pediatric critical care	10,133	6	0.2	Better	9,105	7	0.4	Better
	Adult and pediatric inpatient wards	5,937	4	0.6	Not significant	6,254	7	1.2	Not significant
Centura St. Anthony North Hospital	Adult and pediatric critical care	3,104	1	0.3	Not significant	2,430	1	0.4	Not significant
	Adult and pediatric inpatient wards	2,868	1	0.4	Not significant	2,581	0	0.0	Not significant
Centura St. Elizabeth Hospital	Adult and pediatric critical care	64	0	N/A	Suppressed ¹	1	---	N/A	Suppressed ¹

Facility name	Unit type	2021				2022			
		Number of catheter-days	Number of infections	SIR	National comparison	Number of catheter-days	Number of infections	SIR	National comparison
	Adult and pediatric inpatient wards	480	0	N/A	Suppressed ¹	278	0	N/A	Suppressed ¹
Centura St. Mary-Corwin Hospital	Adult and pediatric critical care	970	0	N/A	Suppressed ¹	665	0	N/A	Suppressed ¹
	Adult and pediatric inpatient wards	N/A			Suppressed ¹	N/A			Suppressed ¹
Community Hospital	Adult and pediatric critical care	646	0	N/A	Suppressed ¹	594	0	N/A	Suppressed ¹
	Adult and pediatric inpatient wards	717	2	N/A	Suppressed ¹	605	0	N/A	Suppressed ¹
Delta County Memorial Hospital	Adult and pediatric critical care	579	0	N/A	Suppressed ¹	455	0	N/A	Suppressed ¹
	Adult and pediatric inpatient wards	694	1	N/A	Suppressed ¹	628	2	N/A	Suppressed ¹
Denver Health Medical Center	Adult and pediatric critical care	6,666	14	1.1	Not significant	5,517	9	0.9	Not significant
	Adult and pediatric inpatient wards	5,842	4	0.6	Not significant	6,015	11	1.6	Not significant
Foothills Hospital	Adult and pediatric critical care	2,283	0	0.0	Not significant	2,172	2	1.3	Not significant
	Adult and pediatric inpatient wards	3,006	3	1.5	Not significant	2,583	3	1.8	Not significant
Good Samaritan Medical Center	Adult and pediatric critical care	3,385	3	1.0	Not significant	2,043	2	1.1	Not significant
	Adult and pediatric inpatient wards	3,065	2	0.8	Not significant	3,094	2	0.8	Not significant
Longs Peak Hospital	Adult and pediatric critical care	1,843	3	3.0	Not significant	1,809	2	N/A	Suppressed ¹
	Adult and pediatric	1,380	0	N/A	Suppressed ¹	1,696	2	N/A	Suppressed ¹

Facility name	Unit type	2021				2022			
		Number of catheter-days	Number of infections	SIR	National comparison	Number of catheter-days	Number of infections	SIR	National comparison
		inpatient wards							
Lutheran Medical Center	Adult and pediatric critical care	2,957	2	0.8	Not significant	2,903	5	1.3	Not significant
	Adult and pediatric inpatient wards	2,499	1	0.5	Not significant ¹	2,915	1	0.4	Not significant ¹
McKee Medical Center	Adult and pediatric critical care	N/A			N/A	N/A			N/A
	Adult and pediatric inpatient wards	1,312	0	N/A	Suppressed ¹	897	0	N/A	Suppressed ¹
Medical Center of Aurora	Adult and pediatric critical care	4,917	4	0.6	Not significant	4,293	2	0.4	Not significant
	Adult and pediatric inpatient wards	2,679	0	0.0	Better	2,640	1	0.3	Not significant
Medical Center of the Rockies	Adult and pediatric critical care	5,574	6	1.5	Not significant	4,142	5	1.7	Not significant
	Adult and pediatric inpatient wards	3,947	1	0.4	Not significant	4,088	0	0.0	Not significant
Montrose Regional Health	Adult and pediatric critical care	950	4	N/A	Suppressed ¹	661	0	N/A	Suppressed ¹
	Adult and pediatric inpatient wards	989	0	N/A	Suppressed ¹	802	0	N/A	Suppressed ¹
National Jewish Health	Adult and pediatric critical care	N/A			N/A	N/A			N/A
	Adult and pediatric inpatient wards	0	---	N/A	N/A	0	---	N/A	N/A
North Colorado Medical Center	Adult and pediatric critical care	4,350	12	2.1	Worse	2,269	3	1.0	Not significant
	Adult and pediatric inpatient wards	3,584	3	0.7	Not significant	3,145	5	1.3	Not significant

Facility name	Unit type	2021				2022			
		Number of catheter-days	Number of infections	SIR	National comparison	Number of catheter-days	Number of infections	SIR	National comparison
North Suburban Medical Center	Adult and pediatric critical care	1,063	1	0.9	Not significant	1,212	0	0.0	Not significant
	Adult and pediatric inpatient wards	1,706	1	0.6	Not significant	998	0	N/A	Suppressed ¹
Ortho Colorado Hospital at St. Anthony Med Campus	Adult and pediatric critical care	N/A			N/A	N/A			N/A
	Adult and pediatric inpatient wards	1,426	0	N/A	Suppressed ¹	1,016	0	N/A	Suppressed ¹
Parkview Medical Center, Inc.	Adult and pediatric critical care	8,385	2	0.2	Better	6,832	1	0.1	Better
	Adult and pediatric inpatient wards	5,498	1	0.2	Better	5,222	1	0.2	Better
Platte Valley Medical Center	Adult and pediatric critical care	1,825	2	1.4	Not significant	641	2	N/A	Suppressed ¹
	Adult and pediatric inpatient wards	2,056	3	2.2	Not significant	1,331	1	N/A	Suppressed ¹
Poudre Valley Hospital	Adult and pediatric critical care	2,957	9	2.3	Worse	1,652	2	0.9	Not significant
	Adult and pediatric inpatient wards	2,755	2	0.6	Not significant	2,988	1	0.3	Not significant
Presbyterian St. Luke's Medical Center	Adult and pediatric critical care	2,608	6	1.7	Not significant	2,093	3	1.0	Not significant
	Adult and pediatric inpatient wards	935	1	N/A	Suppressed ¹	690	1	N/A	Suppressed ¹
Rose Medical Center	Adult and pediatric critical care	1,853	0	0.0	Not significant	1,271	1	0.6	Not significant
	Adult and pediatric inpatient wards	1,631	3	1.6	Not significant	1,248	0	0.0	Not significant
Saint Joseph Hospital	Adult and pediatric	4,651	2	0.3	Not significant	3,312	1	0.2	Not significant

Facility name	Unit type	2021				2022			
		Number of catheter-days	Number of infections	SIR	National comparison	Number of catheter-days	Number of infections	SIR	National comparison
	critical care								
	Adult and pediatric inpatient wards	2,200	2	0.7	Not significant	2,267	0	0.0	Not significant
San Luis Valley Health	Adult and pediatric critical care	471	0	N/A	Suppressed ¹	397	0	N/A	Suppressed ¹
	Adult and pediatric inpatient wards	863	1	N/A	Suppressed ¹	678	0	N/A	Suppressed ¹
Sky Ridge Medical Center	Adult and pediatric critical care	3,519	6	1.3	Not significant	2,654	1	0.3	Not significant
	Adult and pediatric inpatient wards	2,682	4	1.3	Not significant	2,517	3	1.0	Not significant
St. Mary's Medical Center	Adult and pediatric critical care	5,935	5	0.6	Not significant	3,981	1	0.2	Better
	Adult and pediatric inpatient wards	3,164	1	0.3	Not significant	3,372	0	0.0	Better
St. Anthony Summit Medical Center	Adult and pediatric critical care	N/A			N/A	N/A			N/A
	Adult and pediatric inpatient wards	184	0	N/A	Suppressed ¹	208	0	N/A	Suppressed ¹
St. Francis Medical Center	Adult and pediatric critical care	1,795	0	0.0	Not significant	1,830	1	0.4	Not significant
	Adult and pediatric inpatient wards	1,899	2	0.9	Not significant	2,559	2	0.6	Not significant
Sterling Regional Medical Center	Adult and pediatric critical care	129	0	N/A	Suppressed ¹	107	0	N/A	Suppressed ¹
	Adult and pediatric inpatient wards	433	0	N/A	Suppressed ¹	371	0	N/A	Suppressed ¹
Swedish Medical Center	Adult and pediatric critical care	7,763	3	0.2	Better	6,950	3	0.2	Better

Facility name	Unit type	2021				2022			
		Number of catheter-days	Number of infections	SIR	National comparison	Number of catheter-days	Number of infections	SIR	National comparison
	Adult and pediatric inpatient wards	2,432	0	0.0	Not significant	2,342	1	0.3	Not significant
UCHealth Broomfield Hospital	Adult and pediatric critical care	N/A			N/A	N/A			N/A
	Adult and pediatric inpatient wards	140	0	N/A	Suppressed ¹	461	0	N/A	Suppressed ¹
UCHealth Grandview Hospital	Adult and pediatric critical care	23	---	N/A	Suppressed ¹	15	---	N/A	Suppressed ¹
	Adult and pediatric inpatient wards	42	---	N/A	Suppressed ¹	67	0	N/A	Suppressed ¹
UCHealth Greeley Hospital	Adult and pediatric critical care	1,771	4	N/A	Suppressed ¹	1,013	0	N/A	Suppressed ¹
	Adult and pediatric inpatient wards	1,437	0	N/A	Suppressed ¹	1,600	0	N/A	Suppressed ¹
UCHealth Highlands Ranch Hospital	Adult and pediatric critical care	2,606	10	5.2	Worse	2,186	3	1.9	Not significant
	Adult and pediatric inpatient wards	1,628	3	2.8	Not significant	2,200	5	3.5	Worse
UCHealth Yampa Valley Medical Center	Adult and pediatric critical care	N/A			N/A	N/A			N/A
	Adult and pediatric inpatient wards	199	1	N/A	Suppressed ¹	190	0	N/A	Suppressed ¹
UCHealth Memorial Hospital Central	Adult and pediatric critical care	10,274	4	0.3	Better	8,940	3	0.2	Better
	Adult and pediatric inpatient wards	4,725	3	0.5	Not significant	5,926	4	0.6	Not significant
UCHealth at Memorial Hospital North	Adult and pediatric critical care	1,642	0	0.0	Not significant	1,155	1	0.8	Not significant
	Adult and pediatric	2,311	1	0.5	Not significant	2,400	3	1.3	Not significant

Facility name	Unit type	2021				2022			
		Number of catheter-days	Number of infections	SIR	National comparison	Number of catheter-days	Number of infections	SIR	National comparison
	inpatient wards								
University of Colorado Hospital	Adult and pediatric critical care	23,212	19	0.4	Better	21,217	10	0.2	Better
	Adult and pediatric inpatient wards	13,719	12	0.7	Not significant	11,848	11	0.8	Not significant
Vail Health Hospital	Adult and pediatric critical care	516	0	N/A	Suppressed ¹	223	0	N/A	Suppressed ¹
	Adult and pediatric inpatient wards	686	1	N/A	Suppressed ¹	479	0	N/A	Suppressed ¹
Valley View Hospital Association	Adult and pediatric critical care	805	0	N/A	Suppressed ¹	787	0	N/A	Suppressed ¹
	Adult and pediatric inpatient wards	988	0	N/A	Suppressed ¹	1,243	0	N/A	Suppressed ¹

¹ Calculation of comparison is not available due to data suppression for one of the following reasons: The number of catheter-days was fewer than 50, or the predicted number of infections was less than one.

Suppressed data are defined as "N/A"; N/A, not applicable. Critical care includes all adult and pediatric intensive care units. Wards include all adult and pediatric medical, surgical, and medical-surgical wards, excluding inpatient rehabilitation wards.

SIR, standardized infection ratio (ratio of observed to predicted infection rates); N/A, not applicable.

Data source: National Healthcare Safety Network.

Note: Some 2021 data may appear different than previously reported if facilities entered additional data into NHSN after the 2021 reporting deadline.

Catheter-associated urinary tract infections in inpatient rehabilitation facilities

Six inpatient rehabilitation facilities reported CAUTI data in 2022 (Table 14). One facility reported a rate of CAUTI that was higher (worse) than the national baseline. Two facilities reported a rate of CAUTI that was similar to (not significantly different from) the national baseline. Data were suppressed for three facilities, and comparison to the national baseline was not possible.

Table 14. Catheter-associated urinary tract infections in inpatient rehabilitation facilities – Colorado, Jan. 1, 2021 - Dec. 31, 2022.

Facility name	2021				2022			
	Number of catheter-days	Number of infections	SIR	National comparison	Number of catheter-days	Number of infections	SIR	National comparison
Encompass Health Rehab Hospital of Colorado Springs	1,254	1	0.5	Not significant	1,477	2	1.3	Not significant
Encompass Health Rehab Hospital of Littleton	1,004	1	0.9	Not significant	960	4	2.7	Not significant
Northern Colorado Rehabilitation Hospital, Inc.	990	3	2.8	Not significant	1,048	4	3.5	Worse
Reunion Rehabilitation Hospital, Denver	450	0	N/A	Suppressed ¹	437	0	N/A	Suppressed ¹
Spalding Rehabilitation Hospital	567	2	1.7	Not significant	473	1	N/A	Suppressed ¹
Vibra Rehabilitation Hospital of Denver	680	1	0.9	Not significant	626	0	N/A	Suppressed ¹

¹ Calculation of comparison is not available due to data suppression for one of the following reasons: The number of catheter-days was fewer than 50, or the predicted number of infections was less than one.

SIR, standardized infection ratio (ratio of observed to predicted infection rates); N/A, not applicable.

Data source: National Healthcare Safety Network.

Note: Some 2021 data may appear different than previously reported if facilities entered additional data into NHSN after the 2021 reporting deadline.

Catheter-associated urinary tract infections in long-term acute care hospitals

Six long-term acute care hospitals reported CAUTI data in 2022 (Table 15). One long-term acute care hospital reported a rate of CAUTI that was higher (worse) than the national baseline. Rates of CAUTI were similar to (not significantly different from) the national baseline in five long-term acute care hospitals.

Table 15. Catheter-associated urinary tract infections in long-term acute care hospitals – Colorado, Jan. 1, 2021 - Dec. 31, 2022.

Facility name	2021				2022			
	Number of catheter-days	Number of infections	SIR	National comparison	Number of catheter-days	Number of infections	SIR	National comparison
Craig Hospital	7,743	40	2.4	Worse	8,253	34	2.0	Worse
Kindred Hospital Aurora	2,537	1	0.2	Not significant	2,494	1	0.2	Not significant
Kindred Hospital Denver	4,620	10	1.0	Not significant	3,856	9	1.1	Not significant
Northern Colorado Long Term Acute Hospital	2,718	3	0.8	Not significant	1,924	1	0.3	Not significant
PAM Health Specialty Hospital of Denver	5,316	3	0.3	Better	6,717	9	0.6	Not significant
Vibra Hospital of Denver	1,354	2	0.6	Not significant	2,441	2	0.3	Not significant

SIR, standardized infection ratio (ratio of observed to predicted infection rates); N/A, not applicable.

Data source: National Healthcare Safety Network.

Note: Some 2021 data may appear different than previously reported if facilities entered additional data into NHSN after the 2021 reporting deadline.

Central line-associated bloodstream infections

Central line-associated bloodstream infections in acute care hospitals

Fifty-three acute care hospitals and one freestanding children's hospital reported CLABSI data in 2022 (Table 16). Five acute care hospitals reported a rate of CLABSI that was lower (better) than the national baseline. Twenty-eight acute care hospitals and a freestanding children's hospital reported a rate of CLABSI that was similar to (not significantly different from) the national baseline. Rates of CLABSI for 20 acute care hospitals were suppressed, and comparisons to the national baseline were not available.

In 2022, 45 acute care hospitals reported CLABSI data on adult and pediatric critical care units, 21 reported CLABSI data on neonatal critical care units, 51 reported CLABSI data on adult and pediatric inpatient wards, and nine reported CLABSI data from inpatient rehabilitation wards. A freestanding pediatric hospital reported CLABSI data on neonatal critical care units (Table 17). Two acute care hospitals reported a rate of CLABSI on critical care units that was lower (better) than the national baseline. One acute care hospital reported a rate of CLABSI on inpatient wards that was lower (better) than the national baseline. No acute care hospitals, including a freestanding children's hospital, reported rates of CLABSI on adult and pediatric critical care units, neonatal critical care units, adult and pediatric inpatient wards, or inpatient rehabilitation wards that were higher (worse) than the national baseline, although many of the data were suppressed, and comparisons to the national baseline were not possible.

Table 16. Central line-associated bloodstream infections in acute care hospitals, excluding inpatient rehabilitation wards – Colorado, Jan. 1, 2021 - Dec. 31, 2022.

Facility Name	2021				2022			
	Number of central line-days	Number of infections	SIR	National comparison	Number of central line-days	Number of infections	SIR	National comparison
Animas Surgical Hospital, LLC	31	--- ²	N/A	Suppressed ¹	36	--- ²	N/A	Suppressed ¹
Banner Fort Collins Medical Center	497	0	N/A	Suppressed ¹	317	0	N/A	Suppressed ¹
Centennial Hospital	89	0	N/A	Suppressed ¹	101	0	N/A	Suppressed ¹
Centura Avista Adventist Hospital	1,202	0	0.0	Not significant	1,164	0	0.0	Not significant
Centura Castle Rock Adventist Hospital	2,043	1	0.8	Not significant	2,533	2	1.3	Not significant
Centura Littleton Adventist Hospital	4,465	4	1.1	Not significant	3,979	6	1.8	Not significant
Centura Longmont United Hospital	1,463	1	0.7	Not significant	1,174	0	0.0	Not significant
Centura Mercy Hospital	3,795	3	1.2	Not significant	3,120	0	0.0	Not significant
Centura Parker Adventist Hospital	6,326	2	0.3	Not significant	4,899	3	0.9	Not significant
Centura Penrose Hospital	9,935	5	0.5	Not significant	10,231	7	0.6	Not significant
Centura Porter Adventist Hospital	8,389	5	0.7	Not significant	7,143	6	0.9	Not significant
Centura St. Anthony Hospital	16,519	19	1.1	Not significant	14,726	9	0.6	Not significant
Centura St. Anthony North Hospital	6,555	12	2.0	Worse	5,925	2	0.4	Not significant
Centura St. Elizabeth Hospital	148	0	N/A	Suppressed ¹	66	0	N/A	Suppressed ¹
Centura St. Mary-Corwin Hospital	474	0	N/A	Suppressed ¹	361	1	N/A	Suppressed ¹
Children’s Hospital, Colorado	6,383	9	1.3	Not significant	5,751	13	1.8	Not significant
Community Hospital	1,588	2	N/A	Suppressed ¹	1,443	1	N/A	Suppressed ¹

Facility Name	2021				2022			
	Number of central line-days	Number of infections	SIR	National comparison	Number of central line-days	Number of infections	SIR	National comparison
Delta County Memorial Hospital	884	0	N/A	Suppressed ¹	646	0	N/A	Suppressed ¹
Denver Health Medical Center	11,998	8	0.6	Not significant	10,807	11	0.9	Not significant
Foothills Hospital	4,795	3	0.9	Not significant	4,534	4	1.3	Not significant
Good Samaritan Medical Center	4,804	9	2.6	Worse	5,753	4	1.0	Not significant
Longs Peak Hospital	3,563	6	2.7	Worse	4,028	1	0.4	Not significant
Lutheran Medical Center	7,138	4	0.7	Not significant	6,756	1	0.2	Better
McKee Medical Center	994	0	N/A	Suppressed ¹	590	0	N/A	Suppressed ¹
Medical Center of Aurora	8,552	13	1.4	Not significant	7,573	6	0.7	Not significant
Medical Center of the Rockies	14,281	3	0.3	Better	11,588	4	0.5	Not significant
Montrose Regional Health	1,246	0	N/A	Suppressed ¹	915	0	N/A	Suppressed ¹
National Jewish Health	189	0	N/A	Suppressed ¹	79	0	N/A	Suppressed ¹
North Colorado Medical Center	8,043	4	0.5	Not significant	5,805	3	0.5	Not significant
North Suburban Medical Center	3,556	3	0.9	Not significant	2,493	4	1.7	Not significant
OrthoColorado Hospital at St. Anthony Medical Campus	53	0	N/A	Suppressed ¹	33	--- ¹	N/A	Suppressed ¹
Parkview Medical Center, Inc.	6,387	5	0.8	Not significant	5,761	4	0.7	Not significant
Platte Valley Medical Center	3,310	5	2.1	Not significant	1,383	5	N/A	Suppressed ¹
Poudre Valley Hospital	9,867	5	0.5	Not significant	9,273	6	0.6	Not significant
Presbyterian St. Luke's Medical Center	9,051	8	0.7	Not significant	10,257	10	0.8	Not significant
Rose Medical Center	4,540	4	0.8	Not significant	3,538	2	0.5	Not significant
Saint Joseph Hospital	7,811	8	0.9	Not significant	6,007	2	0.3	Better

Facility Name	2021				2022			
	Number of central line-days	Number of infections	SIR	National comparison	Number of central line-days	Number of infections	SIR	National comparison
San Luis Valley Health	394	0	N/A	Suppressed ¹	570	0	N/A	Suppressed ¹
Sky Ridge Medical Center	7,651	3	0.4	Not significant	5,961	5	0.8	Not significant
St. Mary's Medical Center	5,715	9	1.4	Not significant	6,899	3	0.4	Not significant
St. Anthony Summit Medical Center	95	0	N/A	Suppressed ¹	117	0	N/A	Suppressed ¹
St. Francis Medical Center	3,369	0	0.0	Better	4,005	0	0.0	Better
Sterling Regional Medical Center	348	2	N/A	Suppressed ¹	194	0	N/A	Suppressed ¹
Swedish Medical Center	9,526	6	0.5	Not significant	8,578	2	0.2	Better
UCHealth Broomfield Hospital	1,503	1	N/A	Suppressed ¹	1,268	1	N/A	Suppressed ¹
UCHealth Grandview Hospital	61	0	N/A	Suppressed ¹	67	0	N/A	Suppressed ¹
UCHealth Greeley Hospital	3,803	0	0.0	Not significant	3,374	2	1.0	Not significant
UCHealth Highlands Ranch Hospital	5,953	10	2.4	Worse	5,740	2	0.6	Not significant
UCHealth Yampa Valley Medical Center	163	0	N/A	Suppressed ¹	146	0	N/A	Suppressed ¹
UCHealth Memorial Hospital Central	17,699	15	0.8	Not significant	16,198	7	0.4	Better
UCHealth at Memorial Hospital North	4,547	0	0.0	Better	3,515	4	1.3	Not significant
University of Colorado Hospital	43,083	50	1.1	Not significant	40,061	42	1.0	Not significant
Vail Health Hospital	389	0	N/A	Suppressed ¹	290	0	N/A	Suppressed ¹
Valley View Hospital Association	1,145	0	N/A	Suppressed ¹	968	0	N/A	Suppressed ¹

¹ Calculation of comparison is not available due to data suppression for one of the following reasons: The number of central line-days was fewer than 50, or the predicted number of infections was less than one.

Suppressed data are defined as "N/A"; N/A, not applicable.

SIR, standardized infection ratio (ratio of observed to predicted infection rates); N/A, not applicable.

Data source: National Healthcare Safety Network.

Note: Some 2021 data may appear different than previously reported if facilities entered additional data into NHSN after the 2021 reporting deadline.

Table 17. Central line-associated bloodstream infections in acute care hospitals by location type – Colorado, Jan. 1, 2021 - Dec. 31, 2022.

Facility name	Unit type	2021				2022			
		Number of central line-days	Number of infections	SIR	National comparison	Number of central line-days	Number of infections	SIR	National comparison
Animas Surgical Hospital, LLC	Adult and pediatric critical care	N/A		N/A	N/A		N/A		
	Neonatal critical care	N/A		N/A	N/A		N/A		
	Adult and pediatric inpatient wards	31	---	N/A	Suppressed ¹	36	---	N/A	Suppressed ¹
Arkansas Valley Regional Medical Center	Adult and pediatric critical care	54	0	N/A	Suppressed ¹	45	---	N/A	Suppressed ¹
Aspen Valley Hospital	Adult and pediatric critical care	18	---	N/A	Suppressed ¹	2	---	N/A	Suppressed ¹
Banner Fort Collins Medical Center	Adult and pediatric critical care	N/A		N/A	N/A		N/A		
	Neonatal critical care	N/A		N/A	N/A		N/A		
	Adult and pediatric inpatient wards	497	0	N/A	Suppressed ¹	317	0	N/A	Suppressed ¹
Children's Hospital Colorado	Neonatal critical care	6,383	9	1.3	Not significant	5,751	13	1.8	Not significant
Centennial Hospital	Adult and pediatric critical care	0	---	N/A	N/A	0	---	N/A	N/A
	Neonatal critical care	N/A		N/A	N/A		N/A		
	Adult and pediatric inpatient wards	89	0	N/A	Suppressed ¹	101	0	N/A	Suppressed ¹
Centura Avista Adventist Hospital	Adult and pediatric critical care	699	0	N/A	Suppressed ¹	564	0	N/A	Suppressed ¹
	Neonatal critical care	74	0	N/A	Suppressed ¹	170	0	N/A	Suppressed ¹
	Adult and pediatric inpatient wards	429	0	N/A	Suppressed ¹	430	0	N/A	Suppressed ¹
Centura Castle Rock Adventist Hospital	Adult and pediatric critical care	1,322	1	N/A	Suppressed ¹	894	2	N/A	Suppressed ¹

Facility name	Unit type	2021				2022			
		Number of central line-days	Number of infections	SIR	National comparison	Number of central line-days	Number of infections	SIR	National comparison
	Neonatal critical care	18	---	N/A	Suppressed ¹	32	---	N/A	Suppressed ¹
	Adult and pediatric inpatient wards	703	0	N/A	Suppressed ¹	1,607	0	N/A	Suppressed ¹
Centura Littleton Adventist Hospital	Adult and pediatric critical care	3,108	4	1.5	Not significant	2,475	4	1.9	Not significant
	Neonatal critical care	115	0	N/A	Suppressed ¹	87	0	N/A	Suppressed ¹
	Adult and pediatric inpatient wards	1,242	0	N/A	Suppressed ¹	1,417	2	1.9	Not significant
	Inpatient rehabilitation ward	N/A			N/A	N/A			N/A
Centura Longmont United Hospital	Adult and pediatric critical care	1,463	1	0.7	Not significant	1,172	0	0.0	Not significant
	Neonatal critical care	0	---	N/A	N/A	2	---	N/A	N/A
	Adult and pediatric inpatient wards	N/A			N/A	N/A			N/A
Centura Mercy Hospital	Adult and pediatric critical care	2,586	3	1.7	Not significant	2,029	0	0.0	Not significant
	Neonatal critical care	N/A			Suppressed ¹	N/A			Suppressed ¹
	Adult and pediatric inpatient wards	1,209	0	N/A	Suppressed ¹	1,091	0	N/A	Suppressed ¹
Centura Parker Adventist Hospital	Adult and pediatric critical care	3,309	2	0.6	Not significant	2,119	1	0.6	Not significant
	Neonatal critical care	37	---	N/A	Suppressed ¹	31	---	N/A	Suppressed ¹
	Adult and pediatric inpatient wards	2,980	0	0.0	Not significant	2,749	2	1.1	Not significant
Centura Penrose Hospital	Adult and pediatric critical care	5,034	3	0.5	Not significant	5,234	4	0.7	Not significant
	Neonatal critical care	N/A			N/A	N/A			N/A

Facility name	Unit type	2021				2022			
		Number of central line-days	Number of infections	SIR	National comparison	Number of central line-days	Number of infections	SIR	National comparison
	Adult and pediatric inpatient wards	4,901	2	0.4	Not significant	4,997	3	0.6	Not significant
	Inpatient rehabilitation ward	N/A		N/A	N/A		N/A		
	Adult and pediatric critical care	5,429	3	0.6	Not significant	4,136	3	0.7	Not significant
Centura Porter Adventist Hospital	Neonatal critical care	N/A		N/A	N/A		N/A		
	Adult and pediatric inpatient wards	2,960	2	0.9	Not significant	3,007	3	1.1	Not significant
	Inpatient rehabilitation ward	N/A		N/A	N/A		N/A		
	Adult and pediatric critical care	8,703	16	1.6	Not significant	7,853	9	1.1	Not significant
Centura St. Anthony Hospital	Neonatal critical care	N/A		N/A	N/A		N/A		
	Adult and pediatric inpatient wards	7,816	3	0.4	Not significant	6,873	0	0.0	Better
	Inpatient rehabilitation ward	840	0	N/A	Suppressed ¹	619	0	N/A	Suppressed ¹
	Adult and pediatric critical care	3,061	9	3.0	Worse	2,464	2	0.8	Not significant
Centura St. Anthony North Hospital	Neonatal critical care	18	---	N/A	Suppressed ¹	32	---	N/A	Suppressed ¹
	Adult and pediatric inpatient wards	3,476	3	1.0	Not significant	3,429	0	0.0	Not significant
	Adult and pediatric critical care	34	---	N/A	Suppressed ¹	1	---	N/A	Suppressed ¹
Centura St. Elizabeth Hospital	Neonatal critical care	N/A		N/A	N/A		N/A		
	Adult and pediatric inpatient wards	114	0	N/A	Suppressed ¹	65	0	N/A	Suppressed ¹
	Adult and pediatric critical care	474	0	N/A	Suppressed ¹	361	1	N/A	Suppressed ¹
Centura St. Mary-Corwin Hospital	Adult and pediatric critical care	474	0	N/A	Suppressed ¹	361	1	N/A	Suppressed ¹

Facility name	Unit type	2021				2022			
		Number of central line-days	Number of infections	SIR	National comparison	Number of central line-days	Number of infections	SIR	National comparison
	Neonatal critical care	N/A			N/A	N/A			N/A
	Adult and pediatric inpatient wards	N/A			N/A	N/A			N/A
	Inpatient rehabilitation ward	N/A			N/A	N/A			N/A
	Adult and pediatric critical care	684	1	N/A	Suppressed ¹	672	1	N/A	Suppressed ¹
Community Hospital	Neonatal critical care	N/A			N/A	N/A			N/A
	Adult and pediatric inpatient wards	904	1	N/A	Suppressed ¹	771	0	N/A	Suppressed ¹
	Adult and pediatric critical care	555	0	N/A	Suppressed ¹	340	0	N/A	Suppressed ¹
Delta County Memorial Hospital	Neonatal critical care	N/A			N/A	N/A			N/A
	Adult and pediatric inpatient wards	329	0	N/A	Suppressed ¹	306	0	N/A	Suppressed ¹
	Adult and pediatric critical care	4,992	5	0.8	Not significant	3,614	7	1.5	Not significant
Denver Health Medical Center	Neonatal critical care	894	0	0.0	Not significant	722	1	N/A	Suppressed ¹
	Adult and pediatric inpatient wards	6,112	3	0.5	Not significant	6,471	3	0.5	Not significant
	Inpatient rehabilitation ward	N/A			N/A	N/A			N/A
	Adult and pediatric critical care	2,321	2	1.1	Not significant	2,143	1	0.6	Not significant
Foothills Hospital	Neonatal critical care	N/A			N/A	N/A			N/A
	Adult and pediatric inpatient wards	2,474	1	0.6	Not significant	2,391	3	1.9	Not significant
	Adult and pediatric critical care	2,631	6	3.0	Worse	1,822	2	1.5	Not significant
Good Samaritan Medical Center	Adult and pediatric critical care	2,631	6	3.0	Worse	1,822	2	1.5	Not significant

Facility name	Unit type	2021				2022			
		Number of central line-days	Number of infections	SIR	National comparison	Number of central line-days	Number of infections	SIR	National comparison
	Neonatal critical care	N/A			N/A	N/A			N/A
	Adult and pediatric inpatient wards	2,173	3	2.1	Not significant	3,931	2	0.8	Not significant
Heart of the Rockies Regional Medical Center	Adult and pediatric critical care	49	---	N/A	Suppressed ¹	34	---	N/A	Suppressed ¹
Longs Peak Hospital	Adult and pediatric critical care	2,004	3	2.2	Not significant	1,738	0	0.0	Not significant
	Neonatal critical care	N/A			N/A	N/A			N/A
	Adult and pediatric inpatient wards	1,559	3	N/A	Suppressed ¹	2,290	1	0.8	Not significant
Lutheran Medical Center	Adult and pediatric critical care	3,848	4	1.2	Not significant	3,548	1	0.3	Not significant
	Neonatal critical care	43	---	N/A	Suppressed ¹	42	---	N/A	Suppressed ¹
	Adult and pediatric inpatient wards	3,247	0	0.0	Not significant	3,166	0	0.0	Not significant
McKee Medical Center	Adult and pediatric critical care	N/A			N/A	N/A			N/A
	Neonatal critical care	N/A			N/A	N/A			N/A
	Adult and pediatric inpatient wards	994	0	N/A	Suppressed ¹	590	0	N/A	Suppressed ¹
Medical Center of Aurora	Adult and pediatric critical care	5,511	13	2.1	Worse	4,782	4	0.7	Not significant
	Neonatal critical care	43	---	N/A	Suppressed ¹	6	---	N/A	Suppressed ¹
	Adult and pediatric inpatient wards	2,998	0	0.0	Not significant	2,785	2	0.7	Not significant
Medical Center of the Rockies	Adult and pediatric critical care	6,890	2	0.4	Not significant	5,123	1	0.3	Not significant ¹
	Neonatal critical care	N/A			N/A	N/A			N/A

Facility name	Unit type	2021				2022			
		Number of central line-days	Number of infections	SIR	National comparison	Number of central line-days	Number of infections	SIR	National comparison
	Adult and pediatric inpatient wards	7,391	1	0.2	Not significant	6,465	3	0.7	Not significant
	Inpatient rehabilitation ward	N/A		N/A	N/A	N/A		N/A	
	Adult and pediatric critical care	N/A		N/A	N/A	N/A		N/A	
Memorial Hospital	Adult and pediatric critical care	N/A		N/A	N/A	N/A		N/A	
Montrose Regional Health	Adult and pediatric critical care	667	0	N/A	Suppressed ¹	391	0	N/A	Suppressed ¹
	Neonatal critical care	N/A		N/A	N/A	N/A		N/A	
	Adult and pediatric inpatient wards	579	0	N/A	Suppressed ¹	524	0	N/A	Suppressed ¹
	Inpatient rehabilitation ward	93	0	N/A	Suppressed ¹	78	0	N/A	Suppressed ¹
National Jewish Health	Adult and pediatric critical care	N/A		N/A	N/A	N/A		N/A	
	Neonatal critical care	N/A		N/A	N/A	N/A		N/A	
	Adult and pediatric inpatient wards	189	0	N/A	Suppressed ¹	79	0	N/A	Suppressed ¹
North Colorado Medical Center	Adult and pediatric critical care	4,611	4	0.8	Not significant	2,339	1	0.4	Not significant
	Neonatal critical care	N/A		N/A	N/A	N/A		N/A	
	Adult and pediatric inpatient wards	3,432	0	0.0	Better	3,466	2	0.6	Not significant
North Suburban Medical Center	Adult and pediatric critical care	1,581	2	1.3	Not significant	1,427	4	2.9	Not significant
	Neonatal critical care	N/A		N/A	N/A	N/A		N/A	
	Adult and pediatric inpatient wards	1,975	1	0.6	Not significant	1,066	0	N/A	Suppressed ¹
OrthoColorado Hospital at St. Anthony Medical	Adult and pediatric critical care	N/A		N/A	N/A	N/A		N/A	

Facility name	Unit type	2021				2022			
		Number of central line-days	Number of infections	SIR	National comparison	Number of central line-days	Number of infections	SIR	National comparison
Campus	Neonatal critical care	N/A			N/A	N/A			N/A
	Adult and pediatric inpatient wards	53	0	N/A	Suppressed ¹	33	---	N/A	Suppressed ¹
Parkview Medical Center, Inc.	Adult and pediatric critical care	3,547	3	0.8	Not significant	3,141	3	0.9	Not significant
	Neonatal critical care	N/A			N/A	N/A			N/A
	Adult and pediatric inpatient wards	2,840	2	0.8	Not significant	2,620	1	0.4	Not significant
	Inpatient rehabilitation ward	421	0	N/A	Suppressed ¹	235	0	N/A	Suppressed ¹
Platte Valley Medical Center	Adult and pediatric critical care	2,539	3	1.6	Not significant	845	5	N/A	Suppressed ¹
	Neonatal critical care	N/A			N/A	N/A			N/A
	Adult and pediatric inpatient wards	771	2	N/A	Suppressed ¹	538	0	N/A	Suppressed ¹
Poudre Valley Hospital	Adult and pediatric critical care	3,284	2	0.5	Not significant	2,247	2	0.8	Not significant
	Neonatal critical care	453	0	N/A	Suppressed ¹	465	0	N/A	Suppressed ¹
	Adult and pediatric inpatient wards	6,130	3	0.5	Not significant	6,561	4	0.6	Not significant
	Inpatient rehabilitation ward	503	0	N/A	Suppressed ¹	382	0	N/A	Suppressed ¹
Presbyterian St. Luke's Medical Center	Adult and pediatric critical care	4,268	5	0.9	Not significant	3,847	3	0.6	Not significant
	Neonatal critical care	3,147	3	0.6	Not significant	4,056	6	1.0	Not significant
	Adult and pediatric inpatient wards	1,636	0	0.0	Not significant	2,354	1	0.4	Not significant
	Inpatient rehabilitation ward	730	0	N/A	Suppressed ¹	1,005	0	N/A	Suppressed ¹

Facility name	Unit type	2021				2022			
		Number of central line-days	Number of infections	SIR	National comparison	Number of central line-days	Number of infections	SIR	National comparison
Rose Medical Center	Adult and pediatric critical care	1,569	4	2.3	Not significant	1,316	1	0.7	Not significant
	Neonatal critical care	217	0	N/A	Suppressed ¹	212	0	N/A	Suppressed ¹
	Adult and pediatric inpatient wards	2,754	0	0.0	Not significant	2,010	1	0.5	Not significant
Saint Joseph Hospital	Adult and pediatric critical care	4,662	7	1.3	Not significant	3,120	1	0.3	Not significant
	Neonatal critical care	983	0	0.0	Not significant	876	0	0.0	Not significant
	Adult and pediatric inpatient wards	2,166	1	0.5	Not significant	2,011	1	0.5	Not significant
San Luis Valley Health	Adult and pediatric critical care	173	0	N/A	Suppressed ¹	202	0	N/A	Suppressed ¹
	Neonatal critical care	N/A			N/A	N/A			N/A
	Adult and pediatric inpatient wards	221	0	N/A	Suppressed ¹	368	0	N/A	Suppressed ¹
Sky Ridge Medical Center	Adult and pediatric critical care	3,916	3	0.7	Not significant	2,864	4	1.2	Not significant
	Neonatal critical care	75	0	N/A	Suppressed ¹	93	0	N/A	Suppressed ¹
	Adult and pediatric inpatient wards	3,660	0	0.0	Better	3,004	1	0.3	Not significant
Southwest Memorial Hospital	Adult and pediatric critical care	49	---	N/A	Suppressed ¹	26	---	N/A	Suppressed ¹
St. Mary's Medical Center	Adult and pediatric critical care	3,903	5	1.1	Not significant	3,050	2	0.6	Not significant
	Neonatal critical care	200	0	N/A	Suppressed ¹	280	0	N/A	Suppressed ¹
	Adult and pediatric inpatient wards	1,612	4	2.5	Not significant	3,569	1	0.3	Not significant
	Inpatient rehabilitation ward	582	0	N/A	Suppressed ¹	539	0	N/A	Suppressed ¹

Facility name	Unit type	2021				2022			
		Number of central line-days	Number of infections	SIR	National comparison	Number of central line-days	Number of infections	SIR	National comparison
St. Anthony Summit Medical Center	Adult and pediatric critical care	N/A			N/A	N/A			N/A
	Neonatal critical care	N/A			N/A	N/A			N/A
	Adult and pediatric inpatient wards	95	0	N/A	Suppressed ¹	117	0	N/A	Suppressed ¹
St. Francis Medical Center	Adult and pediatric critical care	1,129	0	0.0	Not significant	1,358	0	0.0	Not significant
	Neonatal critical care	582	0	N/A	Suppressed ¹	739	0	0.0	Not significant
	Adult and pediatric inpatient wards	1,658	0	0.0	Not significant	1,908	0	0.0	Not significant
	Inpatient rehabilitation ward	436	0	N/A	Suppressed ¹	606	0	N/A	Suppressed ¹
Sterling Regional Medcenter	Adult and pediatric critical care	95	0	N/A	Suppressed ¹	45	---	N/A	Suppressed ¹
	Neonatal critical care	N/A			N/A	N/A			N/A
	Adult and pediatric inpatient wards	253	2	N/A	Suppressed ¹	149	0	N/A	Suppressed ¹
Swedish Medical Center	Adult and pediatric critical care	6,422	3	0.4	Better	5,952	1	0.1	Better
	Neonatal critical care	73	0	N/A	Suppressed ¹	66	0	N/A	Suppressed ¹
	Adult and pediatric inpatient wards	3,031	3	1.0	Not significant	2,560	1	0.4	Not significant
	Inpatient rehabilitation ward	366	0	N/A	Suppressed ¹	578	0	N/A	Suppressed ¹
UCHealth Broomfield Hospital	Adult and pediatric critical care	N/A			N/A	N/A			N/A
	Neonatal critical care	N/A			N/A	N/A			N/A
	Adult and pediatric inpatient wards	1,503	1	N/A	Suppressed ¹	1,268	1	N/A	Suppressed ¹

Facility name	Unit type	2021				2022			
		Number of central line-days	Number of infections	SIR	National comparison	Number of central line-days	Number of infections	SIR	National comparison
UCHealth Grandview Hospital	Adult and pediatric critical care	15	---	N/A	Suppressed ¹	17	---	N/A	Suppressed ¹
	Neonatal critical care	N/A			N/A	N/A			N/A
	Adult and pediatric inpatient wards	46	---	N/A	Suppressed ¹	50	0	N/A	Suppressed ¹
UCHealth Greeley Hospital	Adult and pediatric critical care	1,887	0	0.0	Not significant	1,356	1	N/A	Suppressed ¹
	Neonatal critical care	N/A			N/A	N/A			N/A
	Adult and pediatric inpatient wards	1,916	0	0.0	Not significant	2,018	1	0.9	Not significant
UCHealth Highlands Ranch Hospital	Adult and pediatric critical care	2,708	6	2.9	Worse	2,315	1	0.6	Not significant
	Neonatal critical care	38	---	N/A	Suppressed ¹	21	---	N/A	Suppressed ¹
	Adult and pediatric inpatient wards	3,207	4	1.9	Not significant	3,404	1	0.5	Not significant
UCHealth Yampa Valley Medical Center	Adult and pediatric critical care	N/A			N/A	N/A			N/A
	Neonatal critical care	0	---	N/A	Suppressed ¹	2	---	N/A	Suppressed ¹
	Adult and pediatric inpatient wards	163	0	N/A	Suppressed ¹	144	0	N/A	Suppressed ¹
UCHealth Memorial Hospital Central	Adult and pediatric critical care	10,594	11	0.9	Not significant	8,946	4	0.4	Better
	Neonatal critical care	44	---	N/A	Suppressed ¹	133	0	N/A	Suppressed ¹
	Adult and pediatric inpatient wards	7,061	4	0.6	Not significant	7,119	3	0.4	Not significant
	Inpatient rehabilitation ward	532	0	N/A	Suppressed ¹	531	1	N/A	Suppressed ¹
UCHealth at Memorial Hospital North	Adult and pediatric critical care	1,969	0	0.0	Not significant	1,214	2	1.7	Not significant

Facility name	Unit type	2021				2022			
		Number of central line-days	Number of infections	SIR	National comparison	Number of central line-days	Number of infections	SIR	National comparison
	Neonatal critical care	N/A			N/A	N/A			N/A
	Adult and pediatric inpatient wards	2,578	0	0.0	Not significant	2,301	2	1.0	Not significant
	Adult and pediatric critical care	23,656	29	1.1	Not significant	21,095	22	0.9	Not significant
University of Colorado Hospital	Neonatal critical care	1,407	2	0.9	Not significant	1,874	2	0.6	Not significant
	Adult and pediatric inpatient wards	18,020	19	1.1	Not significant	17,092	18	1.1	Not significant
	Inpatient rehabilitation ward	1,069	1	N/A	Suppressed ¹	866	2	N/A	Suppressed ¹
	Adult and pediatric critical care	92	0	N/A	Suppressed ¹	32	---	N/A	Suppressed ¹
Vail Health Hospital	Neonatal critical care	N/A			N/A	N/A			N/A
	Adult and pediatric inpatient wards	297	0	N/A	Suppressed ¹	258	0	N/A	Suppressed ¹
	Adult and pediatric critical care	578	0	N/A	Suppressed ¹	500	0	N/A	Suppressed ¹
Valley View Hospital Association	Neonatal critical care	N/A			N/A	N/A			N/A
	Adult and pediatric inpatient wards	567	0	N/A	Suppressed ¹	468	0	N/A	Suppressed ¹

¹ Calculation of comparison is not available due to data suppression for one of the following reasons: The number of central-days was fewer than 50, or the predicted number of infections was less than one.

Suppressed data are defined as "N/A"; N/A, not applicable. Critical care are all adult and pediatric intensive care units. Wards include all adult and pediatric medical, surgical, and medical-surgical wards, excluding inpatient rehabilitation wards.

Critical care units include all adult and pediatric intensive care units.

Neonatal critical care units include all levels II/III combined, III, and IV intensive care units for neonates.

Wards include all adult and pediatric medical, surgical, and medical-surgical wards.

Inpatient rehabilitation wards are located within an acute care hospital.

SIR, standardized infection ratio (ratio of observed to predicted infection rates); N/A, not applicable.

Data source: National Healthcare Safety Network.

Note: Some 2021 data may appear different than previously reported if facilities entered additional data into NHSN after the 2021 reporting deadline.

Central line-associated bloodstream infections in critical access hospitals

In 2022, four critical access hospitals reported CLABSI data from critical care units (Table 18). Most reported few central line-days. Rates of CLABSI were suppressed and comparisons to the national baseline were not possible.

Table 18. Central line-associated bloodstream infections on critical care units in critical access hospitals – Colorado, Jan. 1, 2021 - Dec. 31, 2022.

Facility name	2021				2022			
	Number of central line-days	Number of infections	SIR	National comparison	Number of central line-days	Number of infections	SIR	National comparison
Arkansas Valley Regional Medical Center	54	0	N/A	Suppressed ¹	45	---	N/A	Suppressed ¹
Aspen Valley Hospital	18	---	N/A	Suppressed ¹	2	---	N/A	Suppressed ¹
Heart of the Rockies Regional Medical Center	49	---	N/A	Suppressed ¹	34	---	N/A	Suppressed ¹
Southwest Memorial Hospital	49	---	N/A	Suppressed ¹	26	---	N/A	Suppressed ¹

¹ Calculation of comparison is not available due to data suppression for one of the following reasons: The number of central line-days was fewer than 50, or the predicted number of infections was less than one.
Suppressed data are defined as "N/A"; N/A, not applicable.

SIR, standardized infection ratio (ratio of observed to predicted infection rates); N/A, not applicable.

Data source: National Healthcare Safety Network.

Note: Some 2021 data may appear different than previously reported if facilities entered additional data into NHSN after the 2021 reporting deadline.

Central line-associated bloodstream infections in inpatient rehabilitation facilities

Six inpatient rehabilitation facilities reported CLABSI data in 2022 (Table 19). There were two CLABSIs reported. Rates of CLABSI were suppressed and comparisons to the national baseline were not possible.

Table 19. Central line-associated bloodstream infections in stand-alone inpatient rehabilitation facilities – Colorado, Jan. 1, 2021 - Dec. 31, 2022.

Facility name	2021				2022			
	Number of central line-days	Number of infections	SIR	National comparison	Number of central line-days	Number of infections	SIR	National comparison
Encompass Health Rehab Hospital of Colorado Springs	772	0	N/A	Suppressed ¹	1,069	1	N/A	Suppressed ¹
Encompass Health Rehab Hospital of Littleton	1,186	0	N/A	Suppressed ¹	1,219	1	N/A	Suppressed ¹
Northern Colorado Rehabilitation Hospital, Inc.	937	0	N/A	Suppressed ¹	1,085	0	N/A	Suppressed ¹
Reunion Rehabilitation Hospital, Denver	271	0	N/A	Suppressed ¹	600	0	N/A	Suppressed ¹
Spalding Rehabilitation Hospital	760	0	N/A	Suppressed ¹	853	0	N/A	Suppressed ¹
Vibra Rehabilitation Hospital of Denver	976	0	N/A	Suppressed ¹	772	0	N/A	Suppressed ¹

¹ Calculation of comparison is not available due to data suppression for one of the following reasons: The number of central line-days fewer than 50, or the predicted number of infections was less than one.

Suppressed data are defined as “N/A”; N/A, not applicable.

SIR, standardized infection ratio (ratio of observed to predicted infection rates); N/A, not applicable.

Data source: National Healthcare Safety Network.

Note: Some 2021 data may appear different than previously reported if facilities entered additional data into NHSN after the 2021 reporting deadline.

Central line-associated bloodstream infections in long-term acute care hospitals

Six long-term acute care hospitals reported CLABSI data in 2022 (Table 20). One reported a rate of CLABSI that was lower (better) than the national baseline. Four reported a rate of CLABSI that was similar to (not statistically different from) the national baseline. One rate was suppressed, and comparison to the national baseline was not possible.

Table 20. Central line-associated bloodstream infections in long-term acute care hospitals – Colorado, Jan. 1, 2021 - Dec. 31, 2022.

Facility name	2021				2022			
	Number of central line-days	Number of infections	SIR	National comparison	Number of central line-days	Number of infections	SIR	National comparison
Craig Hospital	866	0	N/A	Suppressed	1,102	0	N/A	Suppressed
Kindred Hospital-Aurora	2,492	0	0.0	Not significant	2,569	0	0.0	Not significant
Kindred Hospital-Denver	3,421	2	0.4	Not significant	1,940	0	0.0	Not significant
Northern Colorado Long Term Acute Hospital	3,692	0	0.0	Better	3,161	1	0.3	Not significant
PAM Health Specialty Hospital of Denver	5,828	3	0.4	Not significant	7,049	2	0.2	Better
Vibra Hospital of Denver	3,043	1	0.2	Better	3,632	4	0.7	Not significant

¹ Calculation of comparison is not available due to data suppression for one of the following reasons: The number of central line-days was fewer than 50, or the predicted number of infections was less than one.
Suppressed data are defined as "N/A"; N/A, not applicable.

SIR, standardized infection ratio (ratio of observed to predicted infection rates); N/A, not applicable.

Data source: National Healthcare Safety Network.

Note: Some 2021 data may appear different than previously reported if facilities entered additional data into NHSN after the 2021 reporting deadline.

Clostridioides difficile infections

Clostridioides difficile infections in acute care hospitals

Fifty-three acute care hospitals reported *C. difficile* data in 2022 (Table 21). Of these, 29 reported a rate of *C. difficile* infection that was lower (better) than the national baseline. Fourteen acute care hospitals reported a rate of infection that was similar to (not significantly different from) the national baseline. Rates of *C. difficile* infection for 10 acute care hospitals were suppressed, and comparisons to the national baseline were not possible.

Table 21. *Clostridioides difficile* infections in acute care hospitals – Colorado, Jan. 1, 2021 - Dec. 31, 2022.

Facility name	2021				2022			
	Number of patient-days	Number of infections	SIR	National comparison	Number of patient-days	Number of infections	SIR	National comparison
Animas Surgical Hospital, LLC	1,093	0	N/A	Suppressed ¹	1,145	0	N/A	Suppressed ¹
Banner Fort Collins Medical Center	4,857	2	1.6	Not significant	4,014	0	N/A	Suppressed ¹
Centennial Hospital	1,636	0	N/A	Suppressed ¹	2,473	0	N/A	Suppressed ¹
Centura Avista Adventist Hospital	12,546	2	0.3	Better	12,358	4	0.6	Not significant
Centura Castle Rock Adventist Hospital	13,356	3	0.5	Not significant	17,082	1	0.1	Better
Centura Littleton Adventist Hospital	38,158	19	0.8	Not significant	35,797	11	0.5	Better
Centura Longmont United Hospital	14,328	3	0.3	Better	12,168	2	0.2	Better
Centura Mercy Hospital	18,792	22	2.1	Worse	24,145	4	0.3	Better
Centura Parker Adventist Hospital	34,066	15	0.7	Not significant	34,235	14	0.7	Not significant
Centura Penrose Hospital	64,815	8	0.2	Better	66,692	13	0.3	Better
Centura Porter Adventist Hospital	48,477	15	0.5	Better	47,431	8	0.3	Better
Centura St. Anthony Hospital	71,575	46	1.0	Not significant	68,087	25	0.6	Better
Centura St. Anthony North Hospital	30,833	14	1.0	Not significant	30,808	10	0.7	Not significant
Centura St. Elizabeth Hospital	2,304	3	N/A	Suppressed ¹	2,305	0	N/A	Suppressed ¹
Centura St. Mary-Corwin Hospital	9,608	2	0.5	Not significant	9,876	1	0.3	Not significant
Community Hospital	10,429	3	0.7	Not significant	10,084	2	0.6	Not significant

Facility name	2021				2022			
	Number of patient-days	Number of infections	SIR	National comparison	Number of patient-days	Number of infections	SIR	National comparison
Delta County Memorial Hospital	5,794	4	1.4	Not significant	5,363	0	0.0	Not significant
Denver Health Medical Center	107,493	43	0.5	Better	104,023	55	0.6	Better
Foothills Hospital	35,807	18	0.8	Not significant	34,344	12	0.6	Not significant
Good Samaritan Medical Center	48,243	13	0.6	Not significant	47,500	6	0.3	Better
Longs Peak Hospital	17,385	10	0.7	Not significant	19,482	3	0.3	Better
Lutheran Medical Center	62,764	12	0.4	Better	63,469	14	0.5	Better
McKee Medical Center	14,878	3	0.5	Not significant	8,205	5	1.1	Not significant
Medical Center of Aurora	64,325	11	0.3	Better	60,276	11	0.3	Better
Medical Center of the Rockies	50,627	21	0.7	Better	51,320	13	0.4	Better
Montrose Regional Health	7,722	8	1.2	Not significant	10,242	6	0.6	Not significant
National Jewish Health	509	0	N/A	Suppressed ¹	381	0	N/A	Suppressed ¹
North Colorado Medical Center	52,354	12	0.4	Better	40,506	9	0.4	Better
North Suburban Medical Center	34,207	5	0.3	Better	30,222	6	0.4	Better
OrthoColorado Hospital at St. Anthony Medical Campus	5,712	0	N/A	Suppressed ¹	3,756	0	N/A	Suppressed ¹
Parkview Medical Center, Inc.	72,572	44	0.8	Not significant	70,576	41	1.0	Not significant
Platte Valley Medical Center	14,988	1	0.2	Better	14,449	1	0.2	Better
Poudre Valley Hospital	53,865	17	0.4	Better	53,115	12	0.3	Better
Presbyterian St. Luke's Medical Center	61,171	23	0.6	Better	62,439	17	0.6	Better
Rose Medical Center	39,531	2	0.1	Better	39,336	6	0.3	Better
Saint Joseph Hospital	83,792	16	0.4	Better	76,700	14	0.4	Better

Facility name	2021				2022			
	Number of patient-days	Number of infections	SIR	National comparison	Number of patient-days	Number of infections	SIR	National comparison
San Luis Valley Health	7,676	2	0.6	Not significant	5,870	4	1.5	Not significant
Sky Ridge Medical Center	60,094	9	0.3	Better	57,909	5	0.2	Better
St. Mary's Medical Center	65,049	10	0.3	Better	58,417	6	0.2	Better
St. Anthony Summit Medical Center	4,168	0	0.0	Not significant	3,725	0	N/A	Suppressed ¹
St. Francis Medical Center	37,571	6	0.3	Better	34,794	3	0.1	Better
Sterling Regional Medical Center	4,110	2	N/A	Suppressed ¹	2,630	0	N/A	Suppressed ¹
Swedish Medical Center	114,780	12	0.2	Better	106,270	17	0.3	Better
UCHealth Broomfield Hospital	4,714	1	0.5	Not significant	5,045	0	0.0	Not significant
UCHealth Grandview Hospital	3,121	1	N/A	Suppressed ¹	1,933	0	N/A	Suppressed ¹
UCHealth Greeley Hospital	14,868	6	0.7	Not significant	14,271	3	0.3	Better
UCHealth Highlands Ranch Hospital	26,868	8	0.4	Better	29,331	6	0.3	Better ¹
UCHealth Yampa Valley Medical Center	3,427	1	0.8	Not significant	3,719	0	N/A	Suppressed ¹
UCHealth Memorial Hospital Central	102,858	28	0.5	Better	104,673	23	0.4	Better
UCHealth at Memorial Hospital North	37,154	8	0.5	Better	37,931	4	0.2	Better
University of Colorado Hospital	204,873	88	0.6	Better	214,807	79	0.5	Better
Vail Health Hospital	7,301	1	0.2	Not significant	5,105	1	0.2	Not significant
Valley View Hospital Association	10,023	4	0.5	Not significant	10,572	5	0.8	Not significant

¹ Calculation of comparison is not available due to data suppression for one of the following reasons: The number of patient-days was fewer than 50, or the predicted number of infections was less than one.

Suppressed data are defined as "N/A"; N/A, not applicable.

SIR, standardized infection ratio (ratio of observed to predicted infection rates); N/A, not applicable.

Data source: National Healthcare Safety Network.

Note: Some 2021 data may appear different than previously reported if facilities entered additional data into NHSN after the 2021 reporting deadline.

Clostridioides difficile infections in inpatient rehabilitation facilities

Six inpatient rehabilitation facilities reported *C. difficile* data in 2022 (Table 22). One facility reported a rate of *C. difficile* infection that was lower (better) than the national baseline. The remaining facilities reported rates that were similar to (not significantly different from) the national baseline.

Table 22. Clostridioides difficile infections in inpatient rehabilitation facilities – Colorado, Jan. 1, 2021 - Dec. 31, 2022.

Facility name	2021				2022			
	Number of patient-days	Number of infections	SIR	National comparison	Number of patient-days	Number of infections	SIR	National comparison
Encompass Health Rehab Hospital of Colorado Springs	13,839	6	0.9	Not significant	13,683	2	0.3	Not significant
Encompass Health Rehab Hospital of Littleton	15,630	1	0.2	Not significant	14,742	1	0.2	Better
Northern Colorado Rehabilitation Hospital, Inc.	13,070	0	0.0	Better	13,195	7	1.7	Not significant
Reunion Rehabilitation Hospital, Denver	5,951	1	0.4	Not significant	8,509	2	0.5	Not significant
Spalding Rehabilitation Hospital	10,343	0	0.0	Better	9,620	1	0.3	Not significant
Vibra Rehabilitation Hospital of Denver	10,493	2	0.6	Not significant	8,910	1	0.4	Not significant

SIR, standardized infection ratio (ratio of observed to predicted infection rates).

Data source: National Healthcare Safety Network.

Note: Some 2021 data may appear different than previously reported if facilities entered additional data into NHSN after the 2021 reporting deadline.

Clostridioides difficile infections in long-term acute care hospitals

Six long-term acute care hospitals reported *C. difficile* data in 2022 (Table 23). Of these, two reported a rate of *C. difficile* infection that was lower (better) than the national baseline. Four reported a rate that was similar to (not significantly different from) the national baseline.

Table 23. Clostridioides difficile infections in long-term acute care hospitals – Colorado, Jan. 1, 2021 - Dec. 31, 2022.

Facility name	2021				2022			
	Number of patient-days	Number of infections	SIR	National comparison	Number of patient-days	Number of infections	SIR	National comparison
Craig Hospital	29,632	9	0.4	Better	29,760	5	0.2	Better
Kindred Hospital-Aurora	13,070	3	0.2	Better	12,453	0	0.0	Better
Kindred Hospital-Denver	15,760	25	1.3	Not significant	17,167	14	0.7	Not significant
Northern Colorado Long Term Acute Hospital	6,168	2	0.3	Better	6,245	3	0.6	Not significant
PAM Health Specialty Hospital of Denver	17,767	4	0.2	Better	19,406	10	0.6	Not significant
Vibra Hospital of Denver	14,645	8	0.5	Better	14,895	7	0.6	Not significant

SIR, standardized infection ratio (ratio of observed to predicted infection rates).

Data source: National Healthcare Safety Network.

Note: Some 2021 data may appear different than previously reported if facilities entered additional data into NHSN after the 2021 reporting deadline.

Dialysis-related infections

Access-related bloodstream infections (ARBSIs) in outpatient dialysis facilities

Seventy-nine dialysis facilities reported rates of ARBSI in 2022 (Table 24). For reference, the national rate was 0.31 per 100 person-months. SIRs for ARBSIs were not available in NHSN, and comparison to the national baseline was not possible. Statistical comparisons of rates of ARBSIs are not presented, because the rates are not adjusted for risk, and comparison of crude rates could be misleading.

Table 24. Access-related bloodstream infections in outpatient dialysis facilities – Colorado, Jan. 1, 2021 - Dec. 31, 2022.

Facility name	2021				2022			
	Number of patient-months	Number of infections	Infection rate ¹	National comparison	Number patient-months	Number of infections	Infection rate ¹	National comparison
Alamosa Dialysis - DaVita	598	0	0.00	... ²	560	0	0.00	... ²
Arvada Dialysis Center - DaVita	273	0	0.00	... ²	196	0	0.00	... ²
Aurora Dialysis Center - DaVita	1,404	6	0.43	... ²	1,362	4	0.29	... ²
Belcaro Dialysis Center - DaVita	375	0	0.00	... ²	349	0	0.00	... ²
Black Canyon Dialysis - DaVita	297	0	0.00	... ²	264	1	0.38	... ²
Boulder Dialysis Center - DaVita	210	0	0.00	... ²	220	0	0.00	... ²
Brighton Dialysis - DaVita	506	3	0.59	... ²	529	1	0.19	... ²
Children's Hospital Colorado Kidney Center	106	1	0.94	... ²	102	3	2.94	... ²
Commerce City Dialysis Center - DaVita	527	1	0.19	... ²	543	3	0.55	... ²
Cortez Dialysis Center - DaVita	662	0	0.00	... ²	661	0	0.00	... ²

Facility name	2021				2022			
	Number of patient-months	Number of infections	Infection rate ¹	National comparison	Number patient-months	Number of infections	Infection rate ¹	National comparison
Denver Dialysis Center - DaVita	616	2	0.32	... ²	697	1	0.14	... ²
Denver Reception and Diagnostic Center Auxiliary - Prison	165	0	0.00	... ²	221	0	0.00	... ²
Dialysis Clinic Inc. Grand Junction	489	1	0.20	... ²	443	0	0.00	... ²
Dialysis Clinic Inc. Montrose	252	6	2.38	... ²	299	0	0.00	... ²
Durango Dialysis Center - DaVita	256	1	0.39	... ²	234	0	0.00	... ²
East Aurora Dialysis - DaVita	994	7	0.70	... ²	870	1	0.11	... ²
Englewood Dialysis Center - DaVita	776	2	0.26	... ²	820	1	0.12	... ²
FMC East Denver	1,117	4	0.36	... ²	1,115	2	0.18	... ²
Fort Collins Dialysis - DaVita	219	0	0.00	... ²	187	0	0.00	... ²
Fresenius Kidney Care Northeast Denver	529	0	0.00	... ²	608	1	0.16	... ²
Fresenius Medical Care Canon City Dialysis	431	0	0.00	... ²	377	0	0.00	... ²

Facility name	2021				2022			
	Number of patient-months	Number of infections	Infection rate ¹	National comparison	Number patient-months	Number of infections	Infection rate ¹	National comparison
Fresenius Medical Care Ft. Collins Dialysis	949	0	0.00	... ²	844	0	0.00	... ²
Fresenius Medical Care Greeley Dialysis	880	0	0.00	... ²	704	0	0.00	... ²
Fresenius Medical Care La Junta Dialysis	423	1	0.24	... ²	399	1	0.25	... ²
Fresenius Medical Care Lamar Dialysis	306	0	0.00	... ²	305	0	0.00	... ²
Fresenius Medical Care Loveland Dialysis	624	1	0.16	... ²	618	2	0.32	... ²
Fresenius Medical Care North Greeley Dialysis	620	0	0.00	... ²	641	1	0.16	... ²
Fresenius Medical Care Pavilion Dialysis	1,189	2	0.17	... ²	1,117	1	0.09	... ²
Fresenius Medical Care Pueblo Dialysis	643	0	0.00	... ²	568	0	0.00	... ²
Fresenius Medical Care Pueblo South Dialysis	793	0	0.00	... ²	662	0	0.00	... ²
Fresenius Medical Care Pueblo West Dialysis	298	0	0.00	... ²	316	0	0.00	... ²
Fresenius Medical Care Rocky Mountain Dialysis	1,010	3	0.30	... ²	881	0	0.00	... ²

Facility name	2021				2022			
	Number of patient-months	Number of infections	Infection rate ¹	National comparison	Number patient-months	Number of infections	Infection rate ¹	National comparison
Fresenius Medical Care South Denver Dialysis	503	1	0.20	... ²	464	2	0.43	... ²
Fresenius Medical Care Stapleton Dialysis	781	0	0.00	... ²	688	0	0.00	... ²
Fresenius Medical Care Walsenburg Dialysis	240	0	0.00	... ²	268	4	1.49	... ²
Fresenius Medical Care West Hampden Dialysis	622	0	0.00	... ²	567	2	0.35	... ²
Grand Junction Dialysis Center - DaVita	749	2	0.27	... ²	707	3	0.42	... ²
Greeley Dialysis - DaVita	429	0	0.00	... ²	400	1	0.25	... ²
Heart of the Rockies Regional Dialysis Center	127	1	0.79	... ²	123	0	0.00	... ²
Kidney Center of Arvada - ARA	1,043	1	0.10	... ²	979	5	0.51	... ²
Kidney Center of Bear Creek, LLC - ARA	560	2	0.36	... ²	590	3	0.51	... ²
Kidney Center of Frederick - ARA	255	0	0.00	... ²	302	1	0.33	... ²

Facility name	2021				2022			
	Number of patient-months	Number of infections	Infection rate ¹	National comparison	Number patient-months	Number of infections	Infection rate ¹	National comparison
Kidney Center of Lafayette - Kaiser Permanente	632	4	0.63	... ²	656	0	0.00	... ²
Kidney Center of Lakewood - ARA	668	0	0.00	... ²	584	0	0.00	... ²
Kidney Center of Longmont - Kaiser Permanente	818	5	0.61	... ²	908	3	0.33	... ²
Kidney Center of Northridge - ARA	357	2	0.56	... ²	574	1	0.17	... ²
Kidney Center of the Rockies - ARA	95	0	0.00	... ²	124	0	0.00	... ²
Kidney Center of Westminster - ARA	1,234	0	0.00	... ²	1,159	3	0.26	... ²
Kidney Center of Wheat Ridge - ARA	448	1	0.22	... ²	349	0	0.00	... ²
Lakewood Crossing Dialysis Center - DaVita	625	2	0.32	... ²	457	0	0.00	... ²
Lakewood Dialysis Center - DaVita	779	2	0.26	... ²	792	2	0.25	... ²
Liberty Dialysis - Colorado Springs Central - FMC	1,141	0	0.00	... ²	1,076	0	0.00	... ²

Facility name	2021				2022			
	Number of patient-months	Number of infections	Infection rate ¹	National comparison	Number patient-months	Number of infections	Infection rate ¹	National comparison
Liberty Dialysis - Colorado Springs North - FMC	838	1	0.12	... ²	751	5	0.67	... ²
Liberty Dialysis - Colorado Springs South - FMC	992	3	0.30	... ²	843	0	0.00	... ²
Liberty Dialysis - Colorado Springs West - FMC	279	0	0.00	... ²	364	2	0.55	... ²
Littleton Dialysis Center - DaVita	649	2	0.31	... ²	659	0	0.00	... ²
Lonetree Dialysis Center - DaVita	352	0	0.00	... ²	413	1	0.24	... ²
Longmont Dialysis Center - DaVita	218	0	0.00	... ²	214	0	0.00	... ²
Loveland Central Dialysis - DaVita	230	0	0.00	... ²	261	0	0.00	... ²
Lowry Dialysis Center - DaVita	797	1	0.13	... ²	756	1	0.13	... ²
Mesa County Dialysis - DaVita	426	3	0.70	... ²	444	2	0.45	... ²
Montbello Dialysis - DaVita	580	4	0.69	... ²	607	6	0.99	... ²
North Colorado Springs Dialysis - DaVita	438	1	0.23	... ²	399	0	0.00	... ²

Facility name	2021				2022			
	Number of patient-months	Number of infections	Infection rate ¹	National comparison	Number patient-months	Number of infections	Infection rate ¹	National comparison
North Metro Dialysis Center - DaVita	585	0	0.00	... ²	706	1	0.14	... ²
Northeastern Colorado Dialysis - DaVita	561	5	0.89	... ²	533	2	0.38	... ²
Parker Dialysis Center - DaVita	642	1	0.16	... ²	656	0	0.00	... ²
Parker Kidney Center, LLC - ARA	644	0	0.00	... ²	573	2	0.35	... ²
Pikes Peak Dialysis Center Inc. - DaVita	968	4	0.41	... ²	1,147	1	0.09	... ²
Platte Valley Dialysis - DaVita	499	2	0.40	... ²	638	6	0.94	... ²
Printer's Place Dialysis Center - DaVita	327	2	0.61	... ²	267	1	0.37	... ²
Red Hawk Dialysis - DaVita	269	0	0.00	... ²	268	1	0.37	... ²
Sable Dialysis - DaVita	1,206	6	0.50	... ²	1,142	2	0.18	... ²
South West Denver Dialysis - DaVita	348	0	0.00	... ²	278	1	0.36	... ²
Thornton Dialysis Center - DaVita	926	1	0.11	... ²	1,044	3	0.29	... ²

Facility name	2021				2022			
	Number of patient-months	Number of infections	Infection rate ¹	National comparison	Number patient-months	Number of infections	Infection rate ¹	National comparison
Thornton Kidney Center - Closed March 25, 2022	575	0	0.00	... ²	111	0	0.00	... ²
U.S. Renal Care Lone Tree Dialysis	0		0.00	... ²	... ¹	0	0.00	... ²
U.S. Renal Care Altitude Dialysis	21	0	0.00	... ²	147	0	0.00	... ²
U.S. Renal Care Pueblo	647	2	0.31	... ²	542	0	0.00	... ²
West Lakewood Dialysis - DaVita	421	0	0.00	... ²	413	0	0.00	... ²

¹ Rates are per 100 patient-months. Note: These rates are not adjusted for risk. ²SIRs were not available in NHSN.

SIR, standardized infection ratio (ratio of observed to predicted infection rates).

Data include all access types.

Data source: National Healthcare Safety Network.

Note: Some 2021 data may appear different than previously reported if facilities entered additional data into NHSN after the 2021 reporting deadline.

Surgical site infections (SSIs)

Surgical site infections following breast surgeries

Fifty-one acute care hospitals reported performing inpatient breast surgeries in 2022 (Table 25). Of these, two reported a rate of SSIs following breast surgery that was higher (worse) than the national baseline. Sixteen acute care hospitals reported a rate that was similar to (not significantly different from) the national baseline. Rates of SSIs for 33 were suppressed, and comparisons to the national baseline were not possible.

Forty-nine acute care hospitals reported performing outpatient breast surgeries in 2022. Of these, four reported a rate of SSIs following breast surgery that was higher (worse) than the national baseline. Fifteen reported a rate that was similar to (not statistically different from) the national baseline. Rates of SSI for 30 were suppressed, and comparisons to the national baseline were not possible.

Twenty-two ambulatory surgery centers reported performing breast surgeries in 2022. Of these, two reported a rate that was higher (worse) than the national baseline. Five ambulatory surgery centers reported a rate that was similar to (not statistically different from) the national baseline. Rates of SSIs for 15 were suppressed, and comparisons to the national baseline were not possible.

Nineteen critical access hospitals reported performing inpatient breast surgeries in 2022. SSIs data were suppressed for all, and comparisons to the national baseline were not possible.

Eight critical access hospitals reported outpatient breast surgeries in 2022. SSIs data were suppressed for all, and comparisons to the national baseline were not possible.

Table 25. Surgical site infections following breast surgeries – Colorado, Jan. 1, 2021 - Dec. 31, 2022.

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Acute care hospitals, inpatient procedures								
Animas Surgical Hospital, LLC	5	---	N/A	Suppressed ¹	4	---	N/A	Suppressed ¹
Banner Fort Collins Medical Center	2	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
Centennial Hospital	3	---	N/A	Suppressed ¹	34	0	N/A	Suppressed ¹
Centura Avista Adventist Hospital	62	0	N/A	Suppressed ¹	89	0	0.0	Not significant
Centura Castle Rock Adventist Hospital	50	0	N/A	Suppressed ¹	87	1	0.8	Not significant
Centura Littleton Adventist Hospital	24	---	N/A	Suppressed ¹	27	---	N/A	Suppressed ¹
Centura Longmont United Hospital	87	0	0.0	Not significant	49	0	N/A	Suppressed ¹
Centura Mercy Hospital	47	2	N/A	Suppressed ¹	42	3	N/A	Suppressed ¹
Centura Parker Adventist Hospital	41	0	N/A	Suppressed ¹	22	---	N/A	Suppressed ¹
Centura Penrose Hospital	19	---	N/A	Suppressed ¹	27	---	N/A	Suppressed ¹
Centura Porter Adventist Hospital	2	---	N/A	Suppressed ¹	7	---	N/A	Suppressed ¹
Centura St. Anthony Hospital	83	0	0.0	Not significant	79	0	0.0	Not significant
Centura St. Anthony North Hospital	21	---	N/A	Suppressed ¹	6	---	N/A	Suppressed ¹
Centura St. Elizabeth Hospital	3	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
Centura St. Mary-Corwin Hospital	47	0	N/A	Suppressed ¹	39	0	N/A	Suppressed ¹
Community Hospital	34	2	N/A	Suppressed ¹	47	2	N/A	Suppressed ¹
Delta County Memorial Hospital	19	---	N/A	Suppressed ¹	10	---	N/A	Suppressed ¹

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Denver Health Medical Center	53	2	1.4	Not significant	54	3	2.3	Not significant
Foothills Hospital	101	2	1.7	Not significant	101	1	0.8	Not significant
Good Samaritan Medical Center	89	2	1.4	Not significant	110	3	1.9	Not significant
Longs Peak Hospital	22	---	N/A	Suppressed ¹	48	2	N/A	Suppressed ¹
Lutheran Medical Center	31	0	N/A	Suppressed ¹	74	0	N/A	Suppressed ¹
McKee Medical Center	37	0	N/A	Suppressed ¹	27	---	N/A	Suppressed ¹
Medical Center of Aurora	40	0	N/A	Suppressed ¹	20	---	N/A	Suppressed ¹
Medical Center of the Rockies	75	3	2.1	Not significant	84	3	2.3	Not significant
Montrose Regional Health	6	---	N/A	Suppressed ¹	1	---	N/A	Suppressed ¹
North Colorado Medical Center	9	---	N/A	Suppressed ¹	18	---	N/A	Suppressed ¹
North Suburban Medical Center	7	---	N/A	Suppressed ¹	10	---	N/A	Suppressed ¹
OrthoColorado Hospital at St. Anthony Medical Campus	N/A			N/A	N/A			N/A
Parkview Medical Center, Inc.	14	---	N/A	Suppressed ¹	23	---	N/A	Suppressed ¹
Platte Valley Medical Center	26	---	N/A	Suppressed ¹	6	---	N/A	Suppressed ¹
Poudre Valley Hospital	117	4	2.0	Not significant	169	9	3.2	Worse
Presbyterian St. Luke's Medical Center	24	---	N/A	Suppressed ¹	51	1	N/A	Suppressed ¹
Rose Medical Center	197	5	1.7	Not significant	187	1	0.4	Not significant
Saint Joseph Hospital	229	3	0.7	Not significant	182	3	0.9	Not significant

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
San Luis Valley Health	1	---	N/A	Suppressed ¹	1	---	N/A	Suppressed ¹
Sky Ridge Medical Center	198	0	0.0	Not significant	201	5	1.5	Not significant
St. Mary's Medical Center	58	1	N/A	Suppressed ¹	26	---	N/A	Suppressed ¹
St. Anthony Summit Medical Center	2	---	N/A	Suppressed ¹	2	---	N/A	Suppressed ¹
St. Francis Medical Center	97	3	1.5	Not significant	109	1	0.5	Not significant
Sterling Regional Medcenter	0	---	N/A	Suppressed ¹	2	---	N/A	Suppressed ¹
Swedish Medical Center	47	1	N/A	Suppressed ¹	86	2	1.4	Not significant
UCHealth Broomfield Hospital	0	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
UCHealth Grandview Hospital	0	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
UCHealth Greeley Hospital	22	---	N/A	Suppressed ¹	21	---	N/A	Suppressed ¹
UCHealth Highlands Ranch Hospital	58	3	2.8	Not significant	54	3	N/A	Suppressed ¹
UCHealth Yampa Valley Medical Center	13	---	N/A	Suppressed ¹	10	---	N/A	Suppressed ¹
UCHealth Memorial Hospital Central	68	3	1.7	Not significant	82	5	2.3	Not significant
UCHealth at Memorial Hospital North	268	7	1.7	Not significant	216	3	0.9	Not significant
University of Colorado Hospital	412	16	1.9	Worse	435	16	1.7	Worse
Vail Health Hospital	14	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
Valley View Hospital Association	48	0	N/A	Suppressed ¹	36	1	N/A	Suppressed ¹
Acute care hospitals, outpatient procedures								

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Animas Surgical Hospital, LLC	89	0	N/A	Suppressed ¹	98	0	N/A	Suppressed ¹
Banner Fort Collins Medical Center	8	---	N/A	Suppressed ¹	N/A			Suppressed ¹
Centennial Hospital	12	---	N/A	Suppressed ¹	12	---	N/A	Suppressed ¹
Centura Avista Adventist Hospital	165	0	0.0	Not significant	564	0	0.0	Not significant
Centura Castle Rock Adventist Hospital	348	1	0.5	Not significant	292	2	1.1	Not significant
Centura Littleton Adventist Hospital	394	0	0.0	Better	479	1	0.2	Not significant
Centura Longmont United Hospital	124	0	N/A	Suppressed ¹	103	0	N/A	Suppressed ¹
Centura Mercy Hospital	112	1	N/A	Suppressed ¹	106	0	N/A	Suppressed ¹
Centura Parker Adventist Hospital	134	0	0.0	Not significant	174	1	0.8	Not significant
Centura Penrose Hospital	132	1	0.9	Not significant	106	0	N/A	Suppressed ¹
Centura Porter Adventist Hospital	9	---	N/A	Suppressed ¹	42	0	N/A	Suppressed ¹
Centura St. Anthony Hospital	167	1	0.9	Not significant	180	0	N/A	Suppressed ¹
Centura St. Anthony North Hospital	132	1	0.8	Not significant	127	4	3.5	Worse
Centura St. Elizabeth Hospital	3	---	N/A	Suppressed ¹	1	---	N/A	Suppressed ¹
Centura St. Mary-Corwin Hospital	101	0	N/A	Suppressed ¹	123	1	N/A	Suppressed ¹
Community Hospital	79	1	N/A	Suppressed ¹	65	0	N/A	Suppressed ¹
Delta County Memorial Hospital	46	0	N/A	Suppressed ¹	58	1	N/A	Suppressed ¹
Denver Health Medical Center	256	1	0.3	Not significant	253	1	0.4	Not significant

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Foothills Hospital	113	0	N/A	Suppressed ¹	92	0	N/A	Suppressed ¹
Good Samaritan Medical Center	124	0	N/A	Suppressed ¹	168	2	1.5	Not significant
Longs Peak Hospital	62	1	N/A	Suppressed ¹	86	0	N/A	Suppressed ¹
Lutheran Medical Center	310	1	0.5	Not significant	383	3	1.4	Not significant
McKee Medical Center	206	0	0.0	Not significant	152	0	0.0	Not significant
Medical Center of Aurora	88	0	N/A	Suppressed ¹	54	0	N/A	Suppressed ¹
Medical Center of the Rockies	84	1	N/A	Suppressed ¹	109	1	N/A	Suppressed ¹
Montrose Regional Health	22	---	N/A	Suppressed ¹	19	---	N/A	Suppressed ¹
North Colorado Medical Center	216	0	0.0	Not significant	200	0	0.0	Not significant
North Suburban Medical Center	50	0	N/A	Suppressed ¹	33	0	N/A	Suppressed ¹
OrthoColorado Hospital at St. Anthony Medical Campus	N/A			N/A	N/A			N/A
Parkview Medical Center, Inc.	83	0	N/A	Suppressed ¹	42	1	N/A	Suppressed ¹
Platte Valley Medical Center	56	1	N/A	Suppressed ¹	60	0	N/A	Suppressed ¹
Poudre Valley Hospital	125	2	N/A	Suppressed ¹	161	5	4.5	Worse
Presbyterian St. Luke's Medical Center	114	0	N/A	Suppressed ¹	114	0	N/A	Suppressed ¹
Rose Medical Center	1,645	9	0.8	Not significant	1,888	8	0.6	Not significant
Saint Joseph Hospital	250	2	1.0	Not significant	216	1	0.6	Not significant
San Luis Valley Health	3	---	N/A	Suppressed ¹	5	---	N/A	Suppressed ¹

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Sky Ridge Medical Center	465	1	0.3	Not significant	274	4	1.8	Not significant
St. Mary's Medical Center	38	0	N/A	Suppressed ¹	131	1	N/A	Suppressed ¹
St. Anthony Summit Medical Center	12	---	N/A	Suppressed ¹	19	---	N/A	Suppressed ¹
St. Francis Medical Center	220	0	0.0	Not significant	298	2	0.9	Not significant
Sterling Regional Medcenter	2	---	N/A	Suppressed ¹	2	---	N/A	Suppressed ¹
Swedish Medical Center	48	0	N/A	Suppressed ¹	92	1	N/A	Suppressed ¹
UCHealth Broomfield Hospital	N/A			N/A	N/A			N/A
UCHealth Grandview Hospital	N/A			N/A	N/A			N/A
UCHealth Greeley Hospital	59	1	N/A	Suppressed ¹	63	1	N/A	Suppressed ¹
UCHealth Highlands Ranch Hospital	475	2	0.6	Not significant	635	4	1.0	Not significant
UCHealth Yampa Valley Medical Center	55	1	N/A	Suppressed ¹	33	0	N/A	Suppressed ¹
UCHealth Memorial Hospital Central	71	2	N/A	Suppressed ¹	154	4	3.5	Worse
UCHealth at Memorial Hospital North	888	9	2.2	Worse	1,048	6	1.2	Not significant
University of Colorado Hospital	894	10	1.6	Not significant	771	11	1.9	Worse
Vail Health Hospital	168	0	0.0	Not significant	57	0	N/A	Suppressed ¹
Valley View Hospital Association	136	1	N/A	Suppressed ¹	106	0	N/A	Suppressed ¹
Ambulatory surgery centers								
Aberdeen Ambulatory Surgical Center, LLC	310	0	N/A	Suppressed ¹	N/A			N/A

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Arete Surgical Center, LLC	N/A			N/A	N/A			N/A
Arkansas Valley Surgery Center	4	---	N/A	Suppressed ¹	N/A			N/A
Ascent Surgery Center, LLC	524	0	0.0	Not significant	466	0	0.0	Not significant
Audubon Ambulatory Surgery Center	N/A			N/A	27	---	N/A	Suppressed ¹
Audubon ASC at St. Francis	2	---	N/A	Suppressed ¹	56	0	N/A	Suppressed ¹
Black Canyon Surgical Center, LLC	9	---	N/A	Suppressed ¹	7	---	N/A	Suppressed ¹
Boulder Surgery Center	N/A			N/A	N/A			N/A
Canyon View Surgery Center	2	---	N/A	Suppressed ¹	N/A			N/A
Castle Rock Surgicenter, LLC	N/A			N/A	N/A			N/A
Centrum Surgery Center, LTD	536	0	0.0	Not significant	704	3	1.7	Not significant
Children's North Surgery Center	N/A			N/A	N/A			N/A
Clear Creek Surgery Center, LLC	N/A			N/A	N/A			N/A
Crown Point Surgery Center	208	0	N/A	Suppressed ¹	180	0	N/A	Suppressed ¹
Denver Surgery Center	3	---	N/A	Suppressed ¹	N/A			N/A
Dillion Surgery Center	N/A			N/A	N/A			N/A
Flatirons Surgery Center, LLC	N/A			N/A	N/A			N/A
Foothills Surgery Center, LLC	118	0	N/A	Suppressed ¹	90	0	N/A	Suppressed ¹
Front Range Orthopedic Surgery Center, LLC	N/A			N/A	N/A			N/A
Grand Valley Surgical Center, LLC	536	1	0.7	Not significant	578	2	1.3	Not significant

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Harmony Surgery Center, LLC	639	1	0.4	Not significant	501	0	0.0	Not significant
Harvard Park Surgery Center	N/A			N/A	N/A			N/A
Insight Surgery Center, LLC	305	0	N/A	Suppressed ¹	247	0	N/A	Suppressed ¹
Kaiser Permanente Ambulatory Surgical Center, Lone Tree	542	4	2.8	Not significant	637	7	3.4	Worse
Kaiser Permanente Ambulatory Surgery Center	517	3	1.9	Not significant	510	8	4.6	Worse
Lincoln Surgery Center, LLC	N/A			N/A	N/A			N/A
Loveland Surgery Center	N/A			N/A	N/A			N/A
Midtown Surgical Center	68	0	N/A	Suppressed ¹	48	0	N/A	Suppressed ¹
Midvalley Ambulatory Surgery Center	N/A			N/A	N/A			N/A
Mile High Surgicenter, LLC	N/A			N/A	N/A			N/A
Mountain Vista Orthopaedic Surgery Center, LLC	70	0	N/A	Suppressed ¹	43	0	N/A	Suppressed ¹
Musculoskeletal Surgery Center	85	0	N/A	Suppressed ¹	12	---	N/A	Suppressed ¹
North Suburban Surgery Center	N/A			N/A	N/A			N/A
OCR Fort Collins Surgery Center	N/A			N/A	N/A			N/A
OCR Loveland Surgery Center	N/A			N/A	N/A			N/A
Orthopaedic and Spine Center of Southern Colorado	N/A			N/A	N/A			N/A
Park Meadows Outpatient Surgery	651	2	1.1	Not significant	658	3	1.6	Not significant
Park Ridge Surgery Center	N/A			N/A	N/A			N/A

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Parkwest Surgery Center, LLC	N/A			N/A	N/A			N/A
Peak One Surgery Center, LLC	N/A			N/A	N/A			N/A
Pueblo Ambulatory Surgery Center, LLC	N/A			N/A	N/A			N/A
Red Rocks Surgery Center	23	---	N/A	Suppressed ¹	91	0	N/A	Suppressed ¹
Rocky Mountain Surgery Center, LLC	N/A			N/A	N/A			N/A
Rose Surgical Center	180	0	N/A	Suppressed ¹	104	0	N/A	Suppressed ¹
Sky Ridge Surgical Center	203	0	N/A	Suppressed ¹	189	0	N/A	Suppressed ¹
Skyline Endoscopy Center	243	0	N/A	Suppressed ¹	N/A			Suppressed ¹
Summit View Surgery Center, LLC	51	0	N/A	Suppressed ¹	15	---	N/A	Suppressed ¹
Surgery Center at Cherry Creek	N/A			N/A	N/A			N/A
Surgery Center at Kissing Camels, LLC	141	0	N/A	Suppressed ¹	109	0	N/A	Suppressed ¹
Surgery Center at Lutheran	N/A			N/A	N/A			N/A
Surgery Center of Colorado	179	0	N/A	Suppressed ¹	N/A			N/A
Surgery Center of the Rockies	73	0	N/A	Suppressed ¹	23	---	N/A	Suppressed ¹
Surgical Center of the Rockies	N/A			N/A	N/A			N/A
Vail Valley Surgery Center Edwards	1	---	N/A	Suppressed ¹	N/A			N/A
Vail Valley Surgery Center Vail	N/A			N/A	N/A			N/A
Critical access hospitals, inpatient procedures								
Arkansas Valley Regional Medical Center	1	---	N/A	Suppressed ¹	N/A			N/A

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Aspen Valley Hospital	6	---	N/A	Suppressed ¹	2	---	N/A	Suppressed ¹
Centura St. Thomas More Hospital	3	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
East Morgan County Hospital	5	---	N/A	Suppressed ¹	2	---	N/A	Suppressed ¹
Estes Park Medical Center	N/A			N/A	0	---	N/A	Suppressed ¹
Family Health West Hospital	0	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
Grand River Medical Center	0	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
Gunnison Valley Hospital	1	---	N/A	Suppressed ¹	1	---	N/A	Suppressed ¹
Heart of the Rockies Regional Medical Center	4	---	N/A	Suppressed ¹	3	---	N/A	Suppressed ¹
Melissa Memorial Hospital	0	---	N/A	Suppressed ¹	N/A			N/A
Memorial Hospital	1	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
Middle Park Medical Center	N/A			N/A	N/A			N/A
Mt. San Rafael Hospital	0	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
Pagosa Springs Medical Center	0	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
Pioneers Medical Center	0	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
Prowers Medical Center	0	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
Rio Grande Hospital	0	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
San Luis Valley Health Conejos County Hospital	N/A			N/A	N/A			N/A
Southeast Colorado Hospital	N/A			N/A	N/A			N/A
Southwest Memorial Hospital	2	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
Spanish Peaks Regional Health Center	N/A			N/A	0	---	N/A	Suppressed ¹

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
St. Vincent General Hospital District	N/A			N/A	N/A			N/A
UCHealth Pikes Peak Regional Hospital	0	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
Wray Community District Hospital	0	---	N/A	Suppressed ¹	2	---	N/A	Suppressed ¹
Yuma District Hospital	0	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
Critical access hospitals, outpatient procedures								
Arkansas Valley Regional Medical Center	N/A			N/A	N/A			N/A
Aspen Valley Hospital	30	0	N/A	Suppressed ¹	23	---	N/A	Suppressed ¹
Centura St. Thomas More Hospital	9	---	N/A	Suppressed ¹	2	---	N/A	Suppressed ¹
East Morgan County Hospital	9	---	N/A	Suppressed ¹	7	---	N/A	Suppressed ¹
Estes Park Medical Center	N/A			N/A	N/A			N/A
Family Health West Hospital	4	---	N/A	Suppressed ¹	9	---	N/A	Suppressed ¹
Grand River Medical Center	8	---	N/A	Suppressed ¹	8	---	N/A	Suppressed ¹
Gunnison Valley Hospital	2	---	N/A	Suppressed ¹	N/A			N/A
Heart of the Rockies Regional Medical Center	4	---	N/A	Suppressed ¹	6	---	N/A	Suppressed ¹
Melissa Memorial Hospital	N/A			N/A	N/A			N/A
Memorial Hospital	1	---	N/A	Suppressed ¹	N/A			N/A
Middle Park Medical Center	N/A			N/A	N/A			N/A
Mt. San Rafael Hospital	N/A			N/A	N/A			N/A
Pagosa Springs Medical Center	4	---	N/A	Suppressed ¹	N/A			N/A

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Pioneers Medical Center	N/A			N/A	N/A			N/A
Prowers Medical Center	N/A			N/A	N/A			N/A
Rio Grande Hospital	N/A			N/A	N/A			N/A
Southwest Memorial Hospital	13	---	N/A	Suppressed ¹	6	---	N/A	Suppressed
Spanish Peaks Regional Health Center	N/A			N/A	1	---	N/A	Suppressed
UCHealth Pikes Peak Regional Hospital	2	---	N/A	Suppressed ¹	N/A			N/A
Wray Community District Hospital	2	---	N/A	Suppressed	N/A			N/A
Yuma District Hospital	N/A			N/A	N/A			N/A

¹ Calculation of comparison is not available due to data suppression for one of the following reasons: The number of procedures was fewer than 20, or the predicted number of infections was less than one.

Suppressed data are defined as "N/A"; N/A, not applicable.

SIR, standardized infection ratio; N/A, not applicable.

Data source: National Healthcare Safety Network.

Note: Some 2021 data may appear different than previously reported if facilities entered additional data into NHSN after the 2021 reporting deadline.

Surgical site infections following colon surgeries

Forty-eight acute care hospitals reported performing inpatient colon surgeries in 2022 (**Table 26**). Of these, four reported a rate of SSIs following colon surgery that was lower (better) than the national baseline. Two reported a rate of SSIs following colon surgery that was higher (worse) than the national baseline. Thirty-one reported a rate that was similar to (not significantly different from) the national baseline. Rates of SSIs for 14 were suppressed, and comparisons to the national baseline were not possible.

Eighteen acute care hospitals reported outpatient colon surgeries in 2022. Rates of SSIs were suppressed for all, and comparisons to the national baseline were not possible.

Nineteen critical access hospitals reported performing inpatient colon surgeries in 2022. Rates of SSIs were suppressed for all, and comparisons to the national baseline were not possible.

Three critical access hospitals reported performing outpatient colon surgeries in 2022. Rates of SSIs were suppressed for all, and comparisons to the national baseline were not possible.

Table 26. Surgical site infections following colon surgeries – Colorado, Jan. 1, 2021 - Dec. 31, 2022.

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Acute care hospitals, inpatient procedures								
Animas Surgical Hospital, LLC	1	---	N/A	Suppressed ¹	1	---	N/A	Suppressed ¹
Banner Fort Collins Medical Center	25	---	2.2	Suppressed ¹	14	---	N/A	Suppressed ¹
Centennial Hospital	6	---	N/A	Suppressed ¹	10	---	N/A	Suppressed ¹
Centura Avista Adventist Hospital	33	1	0.7	Not significant	48	3	1.4	Not significant
Centura Castle Rock Adventist Hospital	43	1	0.6	Not significant	56	3	1.4	Not significant
Centura Littleton Adventist Hospital	113	1	0.2	Better	91	2	0.4	Not significant
Centura Longmont United Hospital	39	0	0.0	Not significant	30	0	0.0	Not significant
Centura Mercy Hospital	56	5	2.0	Not significant	56	1	0.4	Not significant
Centura Parker Adventist Hospital	133	1	0.1	Better	108	3	0.6	Not significant
Centura Penrose Hospital	279	2	0.2	Better	230	2	0.2	Better
Centura Porter Adventist Hospital	81	0	0.0	Better	84	2	0.6	Not significant
Centura St. Anthony Hospital	187	7	0.8	Not significant	285	4	0.3	Better

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Centura St. Anthony North Hospital	79	5	1.3	Not significant	73	4	1.0	Not significant
Centura St. Elizabeth Hospital	4	---	N/A	Suppressed ¹	1	---	N/A	Suppressed ¹
Centura St. Mary-Corwin Hospital	27	---	0.0	Suppressed ¹	52	0	0.0	Not significant
Community Hospital	39	1	0.5	Not significant	47	4	1.9	Not significant
Delta County Memorial Hospital	33	0	0.0	Not significant	26	---	N/A	Suppressed ¹
Denver Health Medical Center	105	5	0.7	Not significant	113	4	0.6	Not significant
Foothills Hospital	135	7	2.1	Not significant	121	3	1.0	Not significant
Good Samaritan Medical Center	206	8	0.9	Not significant	218	6	0.7	Not significant
Longs Peak Hospital	77	5	1.6	Not significant	92	9	2.3	Worse
Lutheran Medical Center	128	6	1.1	Not significant	99	6	1.5	Not significant
McKee Medical Center	69	0	0.0	Better	53	2	0.9	Not significant
Medical Center of Aurora	107	4	0.8	Not significant	100	5	1.1	Not significant
Medical Center of the Rockies	194	7	0.7	Not significant	193	11	1.3	Not significant
Montrose Regional Health	47	0	0.0	Not significant	24	---	0.0	Suppressed ¹

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
North Colorado Medical Center	125	11	1.8	Not significant	108	6	1.0	Not significant
North Suburban Medical Center	73	3	0.7	Not significant	29	---	1.8	Suppressed ¹
OrthoColorado Hospital at St. Anthony Medical Campus	N/A			N/A	N/A			N/A
Parkview Medical Center, Inc.	190	7	0.8	Not significant	161	10	1.5	Not significant
Platte Valley Medical Center	59	1	0.5	Not significant	80	9	3.3	Worse
Poudre Valley Hospital	167	5	0.7	Not significant	158	10	1.5	Not significant
Presbyterian St. Luke's Medical Center	116	7	1.2	Not significant	120	7	1.1	Not significant
Rose Medical Center	153	3	0.6	Not significant	123	3	0.6	Not significant
Saint Joseph Hospital	228	9	0.7	Not significant	235	11	1.0	Not significant
San Luis Valley Health	19	---	N/A	Suppressed ¹	11	---	N/A	Suppressed ¹
Sky Ridge Medical Center	302	12	0.8	Not significant	308	5	0.3	Better
St. Mary's Medical Center	157	3	0.3	Better	184	9	1.0	Not significant
St. Anthony Summit Medical Center	12	---	N/A	Suppressed ¹	11	---	N/A	Suppressed ¹
St. Francis Medical Center	95	0	0.0	Better	101	2	0.4	Not significant

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Sterling Regional Medical Center	8	---	N/A	Suppressed ¹	6	---	N/A	Suppressed ¹
Swedish Medical Center	265	3	0.3	Better	277	2	0.2	Better
UCHealth Broomfield Hospital	0	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
UCHealth Grandview Hospital	0	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
UCHealth Greeley Hospital	76	2	0.7	Not significant	97	2	0.5	Not significant
UCHealth Highlands Ranch Hospital	68	6	1.7	Not significant	69	2	0.5	Not significant
UCHealth Yampa Valley Medical Center	17	---	N/A	Suppressed ¹	21	---	N/A	Suppressed ¹
UCHealth Memorial Hospital Central	327	26	1.4	Not significant	363	28	1.5	Not significant
UCHealth at Memorial Hospital North	100	8	1.4	Not significant	109	7	1.3	Not significant
University of Colorado Hospital	481	20	0.6	Better	536	30	0.8	Not significant
Vail Health Hospital	8	---	N/A	Suppressed ¹	15	---	N/A	Suppressed ¹
Valley View Hospital Association	27	---	2.0	Suppressed ¹	42	2	1.2	Not significant
Acute care hospitals, outpatient procedures								

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Animas Surgical Hospital, LLC	N/A			N/A	N/A			N/A
Banner Fort Collins Medical Center	1	---	N/A	Suppressed ¹	1	---	N/A	Suppressed ¹
Centennial Hospital	N/A			N/A	N/A			N/A
Centura Avista Adventist Hospital	N/A			N/A	N/A			N/A
Centura Castle Rock Adventist Hospital	N/A			N/A	N/A			N/A
Centura Littleton Adventist Hospital	1	---	N/A	Suppressed ¹	N/A			N/A
Centura Longmont United Hospital	N/A			N/A	N/A			N/A
Centura Mercy Hospital	N/A			N/A	N/A			N/A
Centura Parker Adventist Hospital	N/A			N/A	N/A			N/A
Centura Penrose Hospital	2	---	N/A	Suppressed ¹	2	---	N/A	Suppressed ¹
Centura Porter Adventist Hospital	N/A			N/A	1	---	N/A	Suppressed ¹
Centura St. Anthony Hospital	1	---	N/A	Suppressed ¹	1	---	N/A	Suppressed ¹
Centura St. Anthony North Hospital	1	---	N/A	Suppressed ¹	N/A			N/A

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Centura St. Elizabeth Hospital	1	---	N/A	Suppressed ¹	N/A			N/A
Centura St. Mary-Corwin Hospital	N/A			N/A	N/A			N/A
Community Hospital	N/A			N/A	N/A			N/A
Delta County Memorial Hospital	N/A			N/A	N/A			N/A
Denver Health Medical Center	1	---	N/A	Suppressed ¹	1	---	N/A	Suppressed ¹
Foothills Hospital	5	---	N/A	Suppressed ¹	4	---	N/A	Suppressed ¹
Good Samaritan Medical Center	N/A			N/A	1	---	N/A	Suppressed ¹
Longs Peak Hospital	N/A			N/A	N/A			N/A
Lutheran Medical Center	N/A			N/A	N/A			N/A
McKee Medical Center	1	---	N/A	Suppressed ¹	5	---	N/A	Suppressed ¹
Medical Center of Aurora	N/A			N/A	2	---	N/A	Suppressed ¹
Medical Center of the Rockies	1	---	N/A	Suppressed ¹	N/A			N/A
Montrose Regional Health	1	---	N/A	Suppressed ¹	N/A			N/A
North Colorado Medical Center	1	---	N/A	Suppressed ¹	3	---	N/A	Suppressed ¹

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
North Suburban Medical Center	N/A			N/A	N/A			N/A
OrthoColorado Hospital at St. Anthony Medical Campus	N/A			N/A	N/A			N/A
Parkview Medical Center, Inc.	3	---	N/A	Suppressed ¹	N/A			N/A
Platte Valley Medical Center	3	---	N/A	Suppressed ¹	2	---	N/A	Suppressed ¹
Poudre Valley Hospital	N/A			N/A	N/A			N/A
Presbyterian St. Luke's Medical Center	1	---	N/A	Suppressed ¹	N/A			N/A
Rose Medical Center	1	---	N/A	Suppressed ¹	1	---	N/A	Suppressed ¹
Saint Joseph Hospital	1	---	N/A	Suppressed ¹	2	---	N/A	Suppressed ¹
San Luis Valley Health	3	---	N/A	Suppressed ¹	N/A			N/A
Sky Ridge Medical Center	6	---	N/A	Suppressed ¹	7	---	N/A	Suppressed ¹
St. Mary's Medical Center	N/A			N/A	N/A			N/A
St. Anthony Summit Medical Center	N/A			N/A	N/A			N/A
St. Francis Medical Center	N/A			N/A	1	---	N/A	Suppressed ¹
Sterling Regional Medical Center	N/A			N/A	N/A			N/A

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Swedish Medical Center	9	---	N/A	Suppressed ¹	29	---	N/A	Suppressed ¹
UCHealth Broomfield Hospital	N/A			N/A	N/A			N/A
UCHealth Grandview Hospital	N/A			N/A	N/A			N/A
UCHealth Greeley Hospital	1	---	N/A	Suppressed ¹	N/A			N/A
UCHealth Highlands Ranch Hospital	2	---	N/A	Suppressed ¹	N/A			N/A
UCHealth Yampa Valley Medical Center	2	---	N/A	Suppressed ¹	2	---	N/A	Suppressed ¹
UCHealth Memorial Hospital Central	3	---	N/A	Suppressed ¹	N/A			N/A
UCHealth Memorial Hospital North	1	---	N/A	Suppressed ¹	1	---	N/A	Suppressed ¹
University of Colorado Hospital	N/A			N/A	N/A			N/A
Vail Health Hospital	N/A			N/A	N/A			N/A
Valley View Hospital Association	1	---	N/A	Suppressed ¹	N/A			N/A
Critical access hospitals, inpatient procedures								
Arkansas Valley Regional Medical Center	0	---	N/A	Suppressed ¹	N/A			N/A

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Aspen Valley Hospital	12	---	N/A	Suppressed ¹	16	---	N/A	Suppressed ¹
Centura St. Thomas More Hospital	26	---	0.9	Suppressed ¹	25	---	N/A	Suppressed ¹
East Morgan County Hospital	3	---	N/A	Suppressed ¹	1	---	N/A	Suppressed ¹
Estes Park Medical Center	0	---	N/A	Suppressed ¹	1	---	N/A	Suppressed ¹
Family Health West Hospital	N/A			N/A	N/A			N/A
Grand River Medical Center	6	---	N/A	Suppressed ¹	5	---	N/A	Suppressed ¹
Gunnison Valley Hospital	6	---	N/A	Suppressed ¹	9	---	N/A	Suppressed ¹
Heart of the Rockies Regional Medical Center	14	---	N/A	Suppressed ¹	25	---	N/A	Suppressed ¹
Melissa Memorial Hospital	0	---	N/A	Suppressed ¹	N/A			N/A
Memorial Hospital	1	---	N/A	Suppressed ¹	2	---	N/A	Suppressed ¹
Middle Park Medical Center	0	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
Mt. San Rafael Hospital	0	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
Pagosa Springs Medical Center	0	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
Pioneers Medical Center	0	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Prowers Medical Center	3	---	N/A	Suppressed ¹	7	---	N/A	Suppressed ¹
Rio Grande Hospital	0	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
San Luis Valley Health Conejos County Hospital	N/A			N/A	N/A			N/A
Southeast Colorado Hospital	N/A			N/A	N/A			N/A
Southwest Memorial Hospital	15	---	N/A	Suppressed ¹	23	---	N/A	Suppressed ¹
Spanish Peaks Regional Health Center	N/A			N/A	1	---	N/A	Suppressed ¹
St. Vincent General Hospital District	N/A			N/A	0	---	N/A	Suppressed ¹
UCHealth Pikes Peak Regional Hospital	6	---	N/A	Suppressed ¹	4	---	N/A	Suppressed ¹
Wray Community District Hospital	2	---	N/A	Suppressed ¹	2	---	N/A	Suppressed ¹
Yuma District Hospital	N/A			N/A	N/A			N/A
Critical access hospitals, outpatient procedures								
Arkansas Valley Regional Medical Center	N/A			N/A	N/A			N/A
Aspen Valley Hospital	N/A			N/A	N/A			N/A

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Centura St. Thomas More Hospital	N/A			N/A	N/A			N/A
East Morgan County Hospital	N/A			N/A	N/A			N/A
Estes Park Medical Center	N/A			N/A	N/A			N/A
Family Health West Hospital	N/A			N/A	N/A			N/A
Grand River Medical Center	N/A			N/A	N/A			N/A
Gunnison Valley Hospital	1	---	N/A	Suppressed ¹	2	---	N/A	Suppressed ¹
Heart of the Rockies Regional Medical Center	N/A			N/A	N/A			N/A
Melissa Memorial Hospital	N/A			N/A	N/A			N/A
Memorial Hospital	N/A			N/A	N/A			N/A
Middle Park Medical Center	N/A			N/A	N/A			N/A
Mt. San Rafael Hospital	N/A			N/A	N/A			N/A
Pagosa Springs Medical Center	N/A			N/A	N/A			N/A
Pioneers Medical Center	N/A			N/A	N/A			N/A
Prowers Medical Center	N/A			N/A	1	---	N/A	Suppressed ¹

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Rio Grande Hospital	N/A			N/A	N/A			N/A
Southwest Memorial Hospital	N/A			N/A	3	---	N/A	Suppressed ¹
Spanish Peaks Regional Health Center	N/A			N/A	N/A			N/A
UCHealth Pikes Peak Regional Hospital	N/A			N/A	N/A			N/A
Wray Community District Hospital	N/A			N/A	N/A			N/A
Yuma District Hospital	N/A			N/A	N/A			N/A

¹ Calculation of comparison is not available due to data suppression for one of the following reasons: The number of procedures was fewer than 20, or the predicted number of infections was less than one.

Suppressed data are defined as "N/A"; N/A, not applicable.

SIR, standardized infection ratio; N/A, not applicable.

Data source: National Healthcare Safety Network.

Note: Some 2021 data may appear different than previously reported if facilities entered additional data into NHSN after the 2021 reporting deadline.

Surgical site infections following hernia repairs

Twenty-seven ambulatory surgery centers reported performing hernia repair surgeries in 2022 (Table 27). One reported a rate of SSIs following hernia repair surgery that was higher (worse) than the national baseline. Three reported rates that were similar to (not significantly different from) the national baseline. Rates of SSIs were suppressed for 23 ambulatory surgery centers, and comparisons to the national baseline were not possible.

Table 27. Surgical site infections following hernia repair surgeries – Colorado, Jan. 1, 2021 - Dec. 31, 2022.

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Aberdeen Ambulatory Surgical Center, LLC	N/A			N/A	N/A			N/A
Arete Surgical Center, LLC	N/A			N/A	N/A			N/A
Arkansas Valley Surgery Center	87	0	N/A	Suppressed ¹	94	1	N/A	Suppressed ¹
Ascent Surgery Center, LLC	N/A			N/A	N/A			N/A
Audubon Ambulatory Surgery Center	N/A			N/A	N/A			N/A
Audubon ASC at St. Francis	292	0	N/A	Suppressed ¹	201	0	N/A	Suppressed ¹
Black Canyon Surgical Center, LLC	31	0	N/A	Suppressed ¹	39	0	N/A	Suppressed ¹
Boulder Surgery Center	N/A			N/A	N/A			N/A
Canyon View Surgery Center	17	---	N/A	Suppressed ¹	22	---	N/A	Suppressed ¹
Castle Rock Surgicenter, LLC	N/A			N/A	N/A			N/A
Centrum Surgery Center, LTD	12	---	N/A	Suppressed ¹	15	---	N/A	Suppressed ¹
Children's North Surgery Center	N/A			N/A	N/A			N/A
Clear Creek Surgery Center, LLC	454	0	0.0	Not significant	454	1	1.0	Not significant
Crown Point Surgery Center	74	0	N/A	Suppressed ¹	61	0	N/A	Suppressed ¹
Denver Surgery Center	175	0	N/A	Suppressed ¹	160	0	0.0	Not significant

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Dillion Surgery Center	N/A			N/A	N/A			N/A
Flatirons Surgery Center, LLC	N/A			N/A	N/A			N/A
Foothills Surgery Center, LLC	328	2	N/A	Suppressed ¹	311	0	N/A	Suppressed ¹
Front Range Orthopedic Surgery Center, LLC	N/A			N/A	N/A			N/A
Grand Valley Surgical Center, LLC	135	0	N/A	Suppressed ¹	156	0	N/A	Suppressed ¹
Harmony Surgery Center, LLC	528	0	N/A	Suppressed ¹	393	0	N/A	Suppressed ¹
Harvard Park Surgery Center	51	0	N/A	Suppressed ¹	4	---	N/A	Suppressed ¹
Insight Surgery Center, LLC	3	---	N/A	Suppressed ¹	5	---	N/A	Suppressed ¹
Kaiser Permanente Ambulatory Surgery Center Lone Tree	465	0	0.0	Not significant	524	4	3.6	Worse
Kaiser Permanente Ambulatory Surgery Center	736	6	3.6	Worse	620	1	0.7	Not significant
Lincoln Surgery Center, LLC	N/A			N/A	1	---	N/A	Suppressed ¹
Loveland Surgery Center	N/A			N/A	N/A			N/A
Midtown Surgical Center	65	0	N/A	Suppressed ¹	46	0	N/A	Suppressed ¹
Midvalley Ambulatory Surgery Center	N/A			N/A	N/A			N/A

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Mile High Surgicenter, LLC	81	0	N/A	Suppressed ¹	46	0	N/A	Suppressed ¹
Mountain Vista Orthopaedic Surgery Center, LLC	40	0	N/A	Suppressed ¹	25	---	N/A	Suppressed ¹
Musculoskeletal Surgery Center	13	---	N/A	Suppressed ¹	10	---	N/A	Suppressed ¹
North Suburban Surgery Center	N/A			N/A	N/A			N/A
OCR Fort Collins Surgery Center	N/A			N/A	N/A			N/A
OCR Loveland Surgery Center	N/A			N/A	N/A			N/A
Orthopaedic and Spine Center of Southern Colorado	N/A			N/A	N/A			N/A
Park Meadows Outpatient Surgery	N/A			N/A	N/A			N/A
Park Ridge Surgery Center	N/A			N/A	N/A			N/A
Parkwest Surgery Center, LLC	N/A			N/A	N/A			N/A
Peak One Surgery Center, LLC	8	---	N/A	Suppressed ¹	22	---	N/A	Suppressed ¹
Pueblo Ambulatory Surgery Center, LLC	23	---	N/A	Suppressed ¹	18	---	N/A	Suppressed ¹
Red Rocks Surgery Center	28	---	N/A	Suppressed ¹	104	0	N/A	Suppressed ¹
Rocky Mountain Surgery Center, LLC	248	0	N/A	Suppressed ¹	241	0	N/A	Suppressed ¹

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Rose Surgical Center	313	0	N/A	Suppressed ¹	272	0	N/A	Suppressed ¹
Sky Ridge Surgical Center	165	0	N/A	Suppressed ¹	112	0	N/A	Suppressed ¹
Skyline Endoscopy Center	123	0	N/A	Suppressed ¹	N/A			N/A
Summit View Surgery Center LLC	298	0	N/A	Suppressed ¹	43	0	N/A	Suppressed ¹
Surgery Center at Cherry Creek	N/A			N/A	N/A			N/A
Surgery Center at Kissing Camels, LLC	N/A			N/A	N/A			N/A
Surgery Center at Lutheran	N/A			N/A	N/A			N/A
Surgery Center of Colorado	N/A			N/A	N/A			N/A
Surgery Center of The Rockies	21	---	N/A	Suppressed ¹	N/A			N/A
Surgical Center of The Rockies	N/A			N/A	N/A			N/A
Vail Valley Surgery Center, Edwards	N/A			N/A	N/A			N/A
Vail Valley Surgery Center, Vail	N/A			N/A	N/A			N/A

¹ Calculation of comparison is not available due to data suppression for one of the following reasons: The number of procedures was fewer than 20, or the predicted number of infections was less than one.

Suppressed data are defined as "N/A"; N/A, not applicable.

SIR, standardized infection ratio; N/A, not applicable.

Data source: National Healthcare Safety Network.

Note: Some 2021 data may appear different than previously reported if facilities entered additional data into NHSN after the 2021 reporting deadline.

Surgical site infections following hip replacements

Fifty-two acute care hospitals reported performing inpatient hip replacement surgeries in 2022 (Table 28). Of these, six acute care hospitals reported a rate of SSIs following hip replacement surgery that was higher (worse) than the national baseline. Twenty-six reported a rate of SSIs that was similar to (not significantly different from) the national baseline. Rates of SSIs for 20 were suppressed, and comparisons to the national baseline were not possible.

Forty-five acute care hospitals reported outpatient hip replacement surgeries in 2022. Of these, one reported a rate of SSIs following hip replacement surgery that was lower (better) than the national baseline. Two reported a rate that was similar to (not significantly different from) the national baseline. Rates of SSIs for 42 were suppressed, and comparisons to the national baseline were not possible.

Twenty-one critical access hospitals reported performing inpatient hip replacement surgeries in 2022. Rates of SSIs following hip replacement surgery were suppressed for all, and comparisons to the national baseline were not possible.

Nine critical access hospitals reported outpatient hip replacement surgeries in 2022. Rates of SSIs following hip replacement surgery were suppressed for all, and comparisons to the national baseline were not possible.

Twenty-one ambulatory surgery centers reported performing hip replacement surgeries in 2022. Comparison of rates of SSIs following hip replacement surgery to the national baseline was not possible because risk-adjustment models were not available at the time of this report.

Table 28. Surgical site infections following hip replacement surgeries (total or partial) – Colorado, Jan. 1, 2021 - Dec. 31, 2022.

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Acute care hospitals, inpatient procedures								
Animas Surgical Hospital, LLC	173	1	0.9	Not significant	203	2	1.7	Not significant
Banner Fort Collins Medical Center	68	2	N/A	Suppressed ¹	56	0	N/A	Suppressed ¹
Centennial Hospital	54	1	N/A	Suppressed ¹	94	0	N/A	Suppressed ¹
Centura Avista Adventist Hospital	39	0	N/A	Suppressed ¹	44	3	N/A	Suppressed ¹
Centura Castle Rock Adventist Hospital	69	1	N/A	Suppressed ¹	122	3	1.9	Not significant
Centura Littleton Adventist Hospital	290	0	0.0	Not significant	298	1	0.4	Not significant
Centura Longmont United Hospital	101	4	N/A	Suppressed ¹	87	1	N/A	Suppressed ¹
Centura Mercy Hospital	93	0	N/A	Suppressed ¹	113	0	0.0	Not significant
Centura Parker Adventist Hospital	123	0	0.0	Not significant	155	0	0.0	Not significant
Centura Penrose Hospital	467	1	0.2	Not significant	349	1	0.3	Not significant
Centura Porter Adventist Hospital	481	2	0.3	Not significant	478	3	0.6	Not significant
Centura St. Anthony Hospital	128	1	0.5	Not significant	113	0	0.0	Not significant
Centura St. Anthony North Hospital	132	1	0.5	Not significant	169	2	1.0	Not significant

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Centura S.t Elizabeth Hospital	15	---	N/A	Suppressed ¹	18	---	N/A	Suppressed ¹
Centura St. Mary-Corwin Hospital	147	3	1.7	Not significant	168	0	0.0	Not significant
Community Hospital	89	1	N/A	Suppressed ¹	118	2	1.5	Not significant
Delta County Memorial Hospital	60	0	N/A	Suppressed ¹	31	0	N/A	Suppressed ¹
Denver Health Medical Center	119	0	0.0	Not significant	123	0	0.0	Not significant
Foothills Hospital	374	2	0.9	Not significant	358	3	1.3	Not significant
Good Samaritan Medical Center	378	7	2.1	Not significant	254	5	2.0	Not significant
Longs Peak Hospital	79	0	N/A	Suppressed ¹	65	2	N/A	Suppressed ¹
Lutheran Medical Center	189	3	1.4	Not significant	230	2	0.9	Not significant
McKee Medical Center	75	1	N/A	Suppressed ¹	48	1	N/A	Suppressed ¹
Medical Center of Aurora	163	0	0.0	Not significant	167	7	3.5	Worse
Medical Center of the Rockies	230	3	1.6	Not significant	265	4	1.8	Not significant
Montrose Regional Health	93	0	N/A	Suppressed ¹	86	0	N/A	Suppressed ¹
North Colorado Medical Center	131	2	1.1	Not significant	156	1	0.5	Not significant
North Suburban Medical Center	53	1	N/A	Suppressed ¹	48	0	N/A	Suppressed ¹

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
OrthoColorado Hospital at St. Anthony Medical Campus	571	0	0.0	Better	484	2	0.6	Not significant
Parkview Medical Center, Inc.	145	1	0.5	Not significant	188	1	0.4	Not significant
Platte Valley Medical Center	84	0	0.0	Not significant	72	0	N/A	Suppressed ¹
Poudre Valley Hospital	537	10	2.3	Worse	493	11	2.4	Worse
Presbyterian St. Luke's Medical Center	180	5	1.9	Not significant	197	13	4.9	Worse
Rose Medical Center	314	1	0.4	Not significant	242	4	2.2	Not significant
Saint Joseph Hospital	375	5	1.2	Not significant	250	6	1.8	Not significant
San Luis Valley Health	51	1	N/A	Suppressed ¹	49	1	N/A	Suppressed ¹
Sky Ridge Medical Center	511	3	0.6	Not significant	440	2	0.4	Not significant
St. Mary's Medical Center	184	0	0.0	Not significant	166	1	0.5	Not significant
St. Anthony Summit Medical Center	27	---	N/A	Suppressed ¹	13	---	N/A	Suppressed ¹
St. Francis Medical Center	611	5	0.8	Not significant	657	3	0.4	Not significant
Sterling Regional Medical Center	20	---	N/A	Suppressed ¹	30	1	N/A	Suppressed ¹
Swedish Medical Center	209	5	1.8	Not significant	214	5	1.8	Not significant
UHealth Broomfield Hospital	163	2	1.7	Not significant	92	1	N/A	Suppressed ¹

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
UCHealth Grandview Hospital	355	5	1.8	Not significant	277	6	2.8	Worse
UCHealth Greeley Hospital	36	0	N/A	Suppressed ¹	38	1	N/A	Suppressed ¹
UCHealth Highlands Ranch Hospital	99	0	N/A	Suppressed ¹	83	1	N/A	Suppressed ¹
UCHealth Yampa Valley Medical Center	90	1	N/A	Suppressed ¹	68	0	N/A	Suppressed ¹
UCHealth Memorial Hospital Central	119	3	1.9	Not significant	131	2	1.2	Not significant
UCHealth at Memorial Hospital North	99	3	2.6	Not significant	150	5	2.9	Worse
University of Colorado Hospital	258	5	1.3	Not significant	281	9	2.2	Worse
Vail Health Hospital	25	---	N/A	Suppressed ¹	18	---	N/A	Suppressed ¹
Valley View Hospital Association	125	1	N/A	Suppressed ¹	115	0	N/A	Suppressed ¹
Acute care hospitals, outpatient procedures								
Animas Surgical Hospital, LLC	N/A			N/A	1	---	N/A	Suppressed ¹
Banner Fort Collins Medical Center	13	---	N/A	Suppressed ¹	17	---	N/A	Suppressed ¹
Centennial Hospital	59	0	N/A	Suppressed ¹	156	2	N/A	Suppressed ¹
Centura Avista Adventist Hospital	22	---	N/A	Suppressed ¹	15	---	N/A	Suppressed ¹
Centura Castle Rock Adventist Hospital	20	---	N/A	Suppressed ¹	17	---	N/A	Suppressed ¹

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Centura Littleton Adventist Hospital	35	0	N/A	Suppressed ¹	59	0	N/A	Suppressed ¹
Centura Longmont United Hospital	12	---	N/A	Suppressed ¹	14	---	N/A	Suppressed ¹
Centura Mercy Hospital	6	---	N/A	Suppressed ¹	6	---	N/A	Suppressed ¹
Centura Parker Adventist Hospital	47	0	N/A	Suppressed ¹	43	0	N/A	Suppressed ¹
Centura Penrose Hospital	17	---	N/A	Suppressed ¹	19	---	N/A	Suppressed ¹
Centura Porter Adventist Hospital	236	0	0.0	Not significant	248	0	N/A	Suppressed ¹
Centura St. Anthony Hospital	2	---	N/A	Suppressed ¹	N/A			N/A
Centura St. Anthony North Hospital	122	0	N/A	Suppressed ¹	159	1	N/A	Suppressed ¹
Centura St. Elizabeth Hospital	N/A			N/A	2	---	N/A	Suppressed ¹
Centura St. Mary-Corwin Hospital	N/A			N/A	3	---	N/A	Suppressed ¹
Community Hospital	8	---	N/A	Suppressed ¹	60	0	N/A	Suppressed ¹
Delta County Memorial Hospital	1	---	N/A	Suppressed ¹	18	---	N/A	Suppressed ¹
Denver Health Medical Center	76	0	0.0	Not significant	76	0	0.0	Not significant
Foothills Hospital	102	1	N/A	Suppressed ¹	145	0	N/A	Suppressed ¹
Good Samaritan Medical Center	56	0	N/A	Suppressed ¹	214	1	N/A	Suppressed ¹

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Longs Peak Hospital	N/A			N/A	36	0	N/A	Suppressed ¹
Lutheran Medical Center	41	1	N/A	Suppressed ¹	107	1	N/A	Suppressed ¹
McKee Medical Center	13	---	N/A	Suppressed ¹	17	---	N/A	Suppressed ¹
Medical Center of Aurora	56	1	N/A	Suppressed ¹	63	1	N/A	Suppressed ¹
Medical Center of the Rockies	4	---	N/A	Suppressed ¹	6	---	N/A	Suppressed ¹
Montrose Regional Health	1	---	N/A	Suppressed ¹	N/A			N/A
North Colorado Medical Center	N/A			N/A	3	---	N/A	Suppressed ¹
North Suburban Medical Center	32	0	N/A	Suppressed ¹	12	---	N/A	Suppressed ¹
OrthoColorado Hospital at St. Anthony Medical Campus	196	0	N/A	Suppressed ¹	261	0	N/A	Suppressed ¹
Parkview Medical Center, Inc.	52	0	N/A	Suppressed ¹	N/A			N/A
Platte Valley Medical Center	3	---	N/A	Suppressed ¹	1	---	N/A	Suppressed ¹
Poudre Valley Hospital	52	0	N/A	Suppressed ¹	82	1	N/A	Suppressed ¹
Presbyterian St. Luke's Medical Center	10	---	N/A	Suppressed ¹	9	---	N/A	Suppressed ¹
Rose Medical Center	18	---	N/A	Suppressed ¹	41	0	N/A	Suppressed ¹
Saint Joseph Hospital	21	---	N/A	Suppressed ¹	114	1	N/A	Suppressed ¹

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
San Luis Valley Health	3	---	N/A	Suppressed ¹	7	---	N/A	Suppressed ¹
Sky Ridge Medical Center	286	0	N/A	Suppressed ¹	426	3	2.8	Not significant
St. Mary's Medical Center	124	1	N/A	Suppressed ¹	192	1	N/A	Suppressed ¹
St. Anthony Summit Medical Center	N/A			N/A	N/A			N/A
St. Francis Medical Center	22	---	N/A	Suppressed ¹	33	0	N/A	Suppressed ¹
Sterling Regional Medical Center	N/A			N/A	N/A			N/A
Swedish Medical Center	87	1	N/A	Suppressed ¹	62	0	N/A	Suppressed ¹
UCHealth Broomfield Hospital	2	---	N/A	Suppressed ¹	39	3	N/A	Suppressed ¹
UCHealth Grandview Hospital	11	---	N/A	Suppressed ¹	3	---	N/A	Suppressed ¹
UCHealth Greeley Hospital	N/A			N/A	2	---	N/A	Suppressed ¹
UCHealth Highlands Ranch Hospital	75	1	N/A	Suppressed ¹	100	1	N/A	Suppressed ¹
UCHealth Yampa Valley Medical Center	22	---	N/A	Suppressed ¹	26	---	N/A	Suppressed ¹
UCHealth Memorial Hospital Central	1	---	N/A	Suppressed ¹	N/A			N/A
UCHealth at Memorial Hospital North	N/A			N/A	N/A			N/A

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
University of Colorado Hospital	53	1	0.2	Better	137	0	0.0	Better
Vail Health Hospital	229	0	N/A	Suppressed ¹	103	0	N/A	Suppressed ¹
Valley View Hospital Association	9	---	N/A	Suppressed ¹	24	---	N/A	Suppressed ¹
Critical access hospitals, inpatient procedures								
Arkansas Valley Regional Medical Center	8	---	N/A	Suppressed ¹	7	---	N/A	Suppressed ¹
Aspen Valley Hospital	52	0	N/A	Suppressed ¹	66	0	N/A	Suppressed ¹
Centura St. Thomas More Hospital	66	1	N/A	Suppressed ¹	99	1	N/A	Suppressed ¹
East Morgan County Hospital	0	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
Estes Park Medical Center	13	---	N/A	Suppressed ¹	11	---	N/A	Suppressed ¹
Family Health West Hospital	36	0	N/A	Suppressed ¹	25	---	N/A	Suppressed ¹
Grand River Medical Center	34	1	N/A	Suppressed ¹	22	---	N/A	Suppressed ¹
Gunnison Valley Hospital	2	---	N/A	Suppressed ¹	5	---	N/A	Suppressed ¹
Heart of the Rockies Regional Medical Center	43	0	N/A	Suppressed ¹	69	2	N/A	Suppressed ¹
Melissa Memorial Hospital	4	---	N/A	Suppressed ¹	2	---	N/A	Suppressed ¹
Memorial Hospital	25	---	N/A	Suppressed ¹	27	---	N/A	Suppressed ¹

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Middle Park Medical Center	0	---	N/A	Suppressed ¹	12	---	N/A	Suppressed ¹
Mt. San Rafael Hospital	4	---	N/A	Suppressed ¹	5	---	N/A	Suppressed ¹
Pagosa Springs Medical Center	13	---	N/A	Suppressed ¹	21	---	N/A	Suppressed ¹
Pioneers Medical Center	75	0	N/A	Suppressed ¹	71	0	N/A	Suppressed ¹
Prowers Medical Center	1	---	N/A	Suppressed ¹	12	---	N/A	Suppressed ¹
Rio Grande Hospital	0	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
San Luis Valley Health Conejos County Hospital	N/A			N/A	N/A			N/A
Southeast Colorado Hospital	N/A			N/A	N/A			N/A
Southwest Memorial Hospital	26	---	N/A	Suppressed ¹	19	---	N/A	Suppressed ¹
Spanish Peaks Regional Health Center	N/A			N/A	N/A			N/A
St. Vincent General Hospital District	N/A			N/A	N/A			N/A
UCHealth Pikes Peak Regional Hospital	7	---	N/A	Suppressed ¹	10	---	N/A	Suppressed ¹
Wray Community District Hospital	12	---	N/A	Suppressed ¹	24	---	N/A	Suppressed ¹
Yuma District Hospital	1	---	N/A	Suppressed ¹	8	---	N/A	Suppressed ¹
Critical access hospitals, outpatient procedures								

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Arkansas Valley Regional Medical Center	N/A			N/A	N/A			N/A
Aspen Valley Hospital	15	---	N/A	Suppressed ¹	65	1	N/A	Suppressed ¹
Centura St. Thomas More Hospital	N/A			N/A	N/A			N/A
East Morgan County Hospital	N/A			N/A	N/A			N/A
Estes Park Medical Center	N/A			N/A	N/A			N/A
Family Health West Hospital	N/A			N/A	N/A			N/A
Grand River Medical Center	1	---	N/A	Suppressed ¹	N/A			N/A
Gunnison Valley Hospital	26	---	N/A	Suppressed ¹	26	---	N/A	Suppressed ¹
Heart of the Rockies Regional Medical Center	N/A			N/A	N/A			N/A
Melissa Memorial Hospital	N/A			N/A	1	---	N/A	Suppressed ¹
Memorial Hospital	1	---	N/A	Suppressed ¹	1	---	N/A	Suppressed ¹
Middle Park Medical Center	N/A			N/A	N/A			N/A
Mt. San Rafael Hospital	N/A			N/A	N/A			N/A
Pagosa Springs Medical Center	N/A			N/A	1	---	N/A	Suppressed ¹
Pioneers Medical Center	N/A			N/A	1	---	N/A	Suppressed ¹

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Prowers Medical Center	2	---	N/A	Suppressed ¹	N/A			N/A
Rio Grande Hospital	N/A			N/A	N/A			N/A
Southwest Memorial Hospital	11	---	N/A	Suppressed ¹	33	0	N/A	Suppressed ¹
Spanish Peaks Regional Health Center	N/A			N/A	N/A			N/A
UCHealth Pikes Peak Regional Hospital	N/A			N/A	N/A			N/A
Wray Community District Hospital	8	---	N/A	Suppressed ¹	6	---	N/A	Suppressed ¹
Yuma District Hospital	7	---	N/A	Suppressed ¹	4	---	N/A	Suppressed ¹
Ambulatory surgery centers								
Arete Surgical Center, LLC	1	---	N/A	Not available	N/A			
Audubon Ambulatory Surgery Center	N/A				21	---	N/A	Not available
Audubon ASC at St. Francis	42	0	N/A	Not available	39	0	N/A	Not available
Boulder Surgery Center	121	1	N/A	Not available	125	0	N/A	Not available
Castle Rock Surgicenter, LLC	29	---	N/A	Not available	69	0	N/A	Not available
Crown Point Surgery Center	40	0	N/A	Not available	47	0	N/A	Not available
Denver Surgery Center	112	0	N/A	Not available	125	0	N/A	Not available
Dillion Surgery Center	N/A				11	---	N/A	Not available

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Flatirons Surgery Center, LLC	18	---	N/A	Not available	13	---	N/A	Not available
Front Range Orthopedic Surgery Center, LLC	21	---	N/A	Not available	42	0	N/A	Not available
Kaiser Permanente Ambulatory Surgery Center, Lone Tree	234	1	N/A	Not available	309	0	N/A	Not available
Lincoln Surgery Center, LLC	124	0	N/A	Not available	51	0	N/A	Not available
Midtown Surgical Center	38	0	N/A	Not available	41	0	N/A	Not available
Mile High Surgicenter, LLC	105	0	N/A	Not available	5	---	N/A	Not available
OCR Fort Collins Surgery Center	49	0	N/A	Not available	56	0	N/A	Not available
OCR Loveland Surgery Center	547	3	N/A	Not available	623	5	N/A	Not available
Orthopaedic And Spine Center of Southern Colorado	124	2	N/A	Not available	173	0	N/A	Not available
Rocky Mountain Surgery Center, LLC	42	0	N/A	Not available	38	0	N/A	Not available
Skyline Endoscopy Center	18	---	N/A	Not available	N/A			
Surgery Center at Cherry Creek	99	0	N/A	Not available	N/A			
Surgery Center at Lutheran	20	---	N/A	Not available	15	---	N/A	Not available
Surgical Center of the Rockies	N/A				2	---	N/A	Not available

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Vail Valley Surgery Center, Edwards	221	1	N/A	Not available	217	1	N/A	Not available
Vail Valley Surgery Center, Vail	N/A				1	---	N/A	Not available

¹ Calculation of comparison is not available due to data suppression for one of the following reasons: The number of procedures was fewer than 20, or the predicted number of infections was less than one.

Suppressed data are defined as "N/A"; N/A, not applicable.

SIR, standardized infection ratio; N/A, not applicable.

Data source: National Healthcare Safety Network.

Note: Some 2021 data may appear different than previously reported if facilities entered additional data into NHSN after the 2021 reporting deadline.

Surgical site infections following abdominal hysterectomies

Fifty-one acute care hospitals reported performing inpatient abdominal hysterectomies in 2022 (Table 29). Of these, two acute care hospitals reported a rate of SSIs following abdominal hysterectomy that was higher (worse) than the national baseline. Seventeen reported a rate of SSI that was similar to (not significantly different from) the national baseline. Rates of SSIs for 32 were suppressed, and comparisons to the national baseline were not possible.

Forty-six acute care hospitals reported outpatient abdominal hysterectomies in 2022. Of these, two acute care hospitals reported a rate of SSIs that was higher (worse) than the national baseline. Three reported a rate of SSIs that was similar to (not significantly different from) the national baseline. Rates of SSIs for 41 were suppressed, and comparisons to the national baseline were not possible.

Nineteen critical access hospitals reported performing inpatient abdominal hysterectomies in 2022. Rates of SSIs following abdominal hysterectomy were suppressed for all, and comparisons to the national baseline were not possible.

Two critical access hospitals reported outpatient abdominal hysterectomies in 2022. Rates of SSIs following abdominal hysterectomy were suppressed for all, and comparisons to the national baseline were not possible.

Table 29. Surgical site infections following abdominal hysterectomies – Colorado, Jan. 1, 2021 - Dec. 31, 2022.

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Acute care hospitals, inpatient procedures								
Animas Surgical Hospital, LLC	37	1	N/A	Suppressed ¹	47	0	N/A	Suppressed ¹
Banner Fort Collins Medical Center	8	---	N/A	Suppressed ¹	12	---	N/A	Suppressed ¹
Centennial Hospital	0	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
Centura Avista Adventist Hospital	42	0	N/A	Suppressed ¹	53	1	N/A	Suppressed ¹
Centura Castle Rock Adventist Hospital	51	1	N/A	Suppressed ¹	50	1	N/A	Suppressed ¹
Centura Littleton Adventist Hospital	106	0	0.0	Not significant	82	0	N/A	Suppressed ¹
Centura Longmont United Hospital	11	---	N/A	Suppressed ¹	11	---	N/A	Suppressed ¹
Centura Mercy Hospital	77	0	N/A	Suppressed ¹	54	0	N/A	Suppressed ¹
Centura Parker Adventist Hospital	188	1	0.6	Not significant	169	0	0.0	Not significant
Centura Penrose Hospital	38	0	N/A	Suppressed ¹	34	0	N/A	Suppressed ¹
Centura Porter Adventist Hospital	7	---	N/A	Suppressed ¹	26	---	N/A	Suppressed ¹

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Centura St. Anthony Hospital	12	---	N/A	Suppressed ¹	5	---	N/A	Suppressed ¹
Centura St. Anthony North Hospital	117	2	1.3	Not significant	103	1	0.9	Not significant
Centura St. Elizabeth Hospital	16	---	N/A	Suppressed ¹	7	---	N/A	Suppressed ¹
Centura St. Mary-Corwin Hospital	0	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
Community Hospital	110	0	0.0	Not significant	95	1	0.6	Not significant
Delta County Memorial Hospital	7	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
Denver Health Medical Center	88	1	0.4	Not significant	74	0	0.0	Not significant
Foothills Hospital	97	2	1.6	Not significant	60	0	N/A	Suppressed ¹
Good Samaritan Medical Center	31	0	N/A	Suppressed ¹	18	---	N/A	Suppressed ¹
Longs Peak Hospital	30	2	N/A	Suppressed ¹	25	---	N/A	Suppressed ¹
Lutheran Medical Center	105	1	0.6	Not significant	85	0	0.0	Not significant
McKee Medical Center	107	0	0.0	Not significant	29	---	N/A	Suppressed ¹
Medical Center of Aurora	46	0	N/A	Suppressed ¹	28	---	N/A	Suppressed ¹
Medical Center of the Rockies	30	0	N/A	Suppressed ¹	35	1	N/A	Suppressed ¹

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Montrose Regional Health	18	---	N/A	Suppressed ¹	19	---	N/A	Suppressed ¹
North Colorado Medical Center	49	0	N/A	Suppressed ¹	50	0	N/A	Suppressed ¹
North Suburban Medical Center	143	2	1.6	Not significant	124	1	0.8	Not significant
OrthoColorado Hospital at St. Anthony Medical Campus	N/A			N/A	N/A			N/A
Parkview Medical Center, Inc.	31	0	N/A	Suppressed ¹	91	5	4.3	Worse
Platte Valley Medical Center	45	0	N/A	Suppressed ¹	56	0	N/A	Suppressed ¹
Poudre Valley Hospital	97	1	0.8	Not significant	99	1	0.9	Not significant
Presbyterian St. Luke's Medical Center	98	3	2.4	Not significant	98	1	0.8	Not significant
Rose Medical Center	163	1	0.4	Not significant	142	2	1.0	Not significant
Saint Joseph Hospital	177	3	0.9	Not significant	173	3	0.8	Not significant
San Luis Valley Health	21	---	N/A	Suppressed ¹	5	---	N/A	Suppressed ¹
Sky Ridge Medical Center	449	7	1.6	Not significant	409	3	0.8	Not significant
St. Mary's Medical Center	130	2	1.3	Not significant	92	0	0.0	Not significant
St. Anthony Summit Medical Center	23	---	N/A	Suppressed ¹	39	1	N/A	Suppressed ¹

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
St. Francis Medical Center	465	5	1.0	Not significant	360	3	0.8	Not significant
Sterling Regional Medical Center	3	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
Swedish Medical Center	302	3	1.0	Not significant	266	4	1.6	Not significant
UCHealth Broomfield Hospital	0	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
UCHealth Grandview Hospital	0	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
UCHealth Greeley Hospital	17	---	N/A	Suppressed ¹	14	---	N/A	Suppressed ¹
UCHealth Highlands Ranch Hospital	64	1	N/A	Suppressed ¹	67	1	0.9	Not significant
UCHealth Yampa Valley Medical Center	18	---	N/A	Suppressed ¹	23	---	N/A	Suppressed ¹
UCHealth Memorial Hospital Central	354	10	2.5	Worse	370	10	2.3	Worse
UCHealth at Memorial Hospital North	306	3	0.8	Not significant	353	7	2.0	Not significant
University of Colorado Hospital	380	15	1.4	Not significant	403	15	1.4	Not significant
Vail Health Hospital	2	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
Valley View Hospital Association	53	0	N/A	Suppressed ¹	48	0	N/A	Suppressed ¹

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Acute care hospitals, outpatient procedures								
Animas Surgical Hospital, LLC	N/A			N/A	N/A			N/A
Banner Fort Collins Medical Center	7	---	N/A	Suppressed ¹	26	---	N/A	Suppressed ¹
Centennial Hospital	N/A			N/A	N/A			N/A
Centura Avista Adventist Hospital	65	0	N/A	Suppressed ¹	76	0	N/A	Suppressed ¹
Centura Castle Rock Adventist Hospital	12	---	N/A	Suppressed ¹	8	---	N/A	Suppressed ¹
Centura Littleton Adventist Hospital	122	0	N/A	Suppressed ¹	165	0	N/A	Suppressed ¹
Centura Longmont United Hospital	37	0	N/A	Suppressed ¹	45	0	N/A	Suppressed ¹
Centura Mercy Hospital	32	1	N/A	Suppressed ¹	30	0	N/A	Suppressed ¹
Centura Parker Adventist Hospital	4	---	N/A	Suppressed ¹	18	---	N/A	Suppressed ¹
Centura Penrose Hospital	7	---	N/A	Suppressed ¹	34	0	N/A	Suppressed ¹
Centura Porter Adventist Hospital	8	---	N/A	Suppressed ¹	114	0	N/A	Suppressed ¹
Centura St. Anthony Hospital	4	---	N/A	Suppressed ¹	10	---	N/A	Suppressed ¹

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Centura St. Anthony North Hospital	N/A			N/A	7	---	N/A	Suppressed ¹
Centura St. Elizabeth Hospital	1	---	N/A	Suppressed ¹	3	---	N/A	Suppressed ¹
Centura St. Mary-Corwin Hospital	N/A			N/A	N/A			N/A
Community Hospital	49	1	N/A	Suppressed ¹	73	1	N/A	Suppressed ¹
Delta County Memorial Hospital	1	---	N/A	Suppressed ¹	N/A			Suppressed ¹
Denver Health Medical Center	38	0	N/A	Suppressed ¹	55	0	N/A	Suppressed ¹
Foothills Hospital	19	---	N/A	Suppressed ¹	53	0	N/A	Suppressed ¹
Good Samaritan Medical Center	58	0	N/A	Suppressed ¹	71	0	N/A	Suppressed ¹
Longs Peak Hospital	158	1	N/A	Suppressed ¹	225	3	N/A	Suppressed ¹
Lutheran Medical Center	200	1	N/A	Suppressed ¹	252	1	N/A	Suppressed ¹
McKee Medical Center	71	0	N/A	Suppressed ¹	133	0	N/A	Suppressed ¹
Medical Center of Aurora	50	1	N/A	Suppressed ¹	53	1	N/A	Suppressed ¹
Medical Center of the Rockies	158	0	N/A	Suppressed ¹	222	1	N/A	Suppressed ¹
Montrose Regional Health	106	1	N/A	Suppressed ¹	104	0	N/A	Suppressed ¹

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
North Colorado Medical Center	117	0	N/A	Suppressed ¹	107	0	N/A	Suppressed ¹
North Suburban Medical Center	39	0	N/A	Suppressed ¹	56	0	N/A	Suppressed ¹
OrthoColorado Hospital at St. Anthony Medical Campus	N/A			N/A	N/A			N/A
Parkview Medical Center, Inc.	204	0	0.0	Not significant	79	1	N/A	Suppressed ¹
Platte Valley Medical Center	22	---	N/A	Suppressed ¹	32	0	N/A	Suppressed ¹
Poudre Valley Hospital	88	1	N/A	Suppressed ¹	146	2	N/A	Suppressed ¹
Presbyterian St. Luke's Medical Center	2	---	N/A	Suppressed ¹	5	---	N/A	Suppressed ¹
Rose Medical Center	242	0	N/A	Suppressed ¹	251	1	1.0	Not significant
Saint Joseph Hospital	258	2	1.7	Not significant	314	1	0.5	Not significant
San Luis Valley Health	6	---	N/A	Suppressed ¹	14	---	N/A	Suppressed ¹
Sky Ridge Medical Center	232	0	0.0	Not significant	198	2	2.0	Not significant
St. Mary's Medical Center	164	2	N/A	Suppressed ¹	208	1	N/A	Suppressed ¹
St. Anthony Summit Medical Center	1	---	N/A	Suppressed ¹	5	---	N/A	Suppressed ¹
St. Francis Medical Center	73	0	N/A	Suppressed ¹	59	1	N/A	Suppressed ¹

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Sterling Regional Medical Center	6	---	N/A	Suppressed ¹	N/A			Suppressed ¹
Swedish Medical Center	106	0	N/A	Suppressed ¹	88	0	N/A	Suppressed ¹
UCHealth Broomfield Hospital	N/A			N/A	N/A			N/A
UCHealth Grandview Hospital	N/A			N/A	N/A			N/A
UCHealth Greeley Hospital	147	1	N/A	Suppressed ¹	182	3	N/A	Suppressed ¹
UCHealth Highlands Ranch Hospital	103	1	N/A	Suppressed ¹	170	1	N/A	Suppressed ¹
UCHealth Yampa Valley Medical Center	68	1	N/A	Suppressed ¹	51	0	N/A	Suppressed ¹
UCHealth Memorial Hospital Central	5	---	N/A	Suppressed ¹	30	1	N/A	Suppressed ¹
UCHealth at Memorial Hospital North	215	2	N/A	Suppressed ¹	291	5	5.0	Worse
University of Colorado Hospital	322	6	2.7	Worse	400	7	2.5	Worse
Vail Health Hospital	9	---	N/A	Suppressed ¹	12	---	N/A	Suppressed ¹
Valley View Hospital Association	12	---	N/A	Suppressed ¹	3	---	N/A	Suppressed ¹
Critical access hospitals, inpatient procedures								

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Arkansas Valley Regional Medical Center	0	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
Aspen Valley Hospital	3	---	N/A	Suppressed ¹	5	---	N/A	Suppressed ¹
Centura St. Thomas More Hospital	34	1	N/A	Suppressed ¹	35	0	N/A	Suppressed ¹
East Morgan County Hospital	1	---	N/A	Suppressed ¹	2	---	N/A	Suppressed ¹
Estes Park Medical Center	4	---	N/A	Suppressed ¹	3	---	N/A	Suppressed ¹
Family Health West Hospital	0	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
Grand River Medical Center	2	---	N/A	Suppressed ¹	3	---	N/A	Suppressed ¹
Gunnison Valley Hospital	3	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
Heart of the Rockies Regional Medical Center	18	---	N/A	Suppressed ¹	7	---	N/A	Suppressed ¹
Melissa Memorial Hospital	0	---	N/A	Suppressed ¹	N/A			N/A
Memorial Hospital	0	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
Middle Park Medical Center	N/A			N/A	N/A			N/A
Mt. San Rafael Hospital	0	---	N/A	Suppressed ¹	1	---	N/A	Suppressed ¹
Pagosa Springs Medical Center	1	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Pioneers Medical Center	0	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
Prowers Medical Center	1	---	N/A	Suppressed ¹	2	---	N/A	Suppressed ¹
Rio Grande Hospital	0	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
San Luis Valley Health Conejos County Hospital	N/A			N/A	N/A			N/A
Southeast Colorado Hospital	N/A			N/A	N/A			N/A
Southwest Memorial Hospital	9	---	N/A	Suppressed ¹	4	---	N/A	Suppressed ¹
Spanish Peaks Regional Health Center	N/A			N/A	N/A			N/A
St. Vincent General Hospital District	N/A			N/A	0	---	N/A	Suppressed ¹
UCHealth Pikes Peak Regional Hospital	0	---	N/A	Suppressed ¹	2	---	N/A	Suppressed ¹
Wray Community District Hospital	0	---	N/A	Suppressed ¹	2	---	N/A	Suppressed ¹
Yuma District Hospital	N/A			N/A	N/A			N/A
Critical access hospitals, outpatient procedures								
Arkansas Valley Regional Medical Center	N/A			N/A	N/A			N/A

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Aspen Valley Hospital	N/A			N/A	N/A			N/A
Centura St. Thomas More Hospital	N/A			N/A	N/A			N/A
East Morgan County Hospital	N/A			N/A	N/A			N/A
Estes Park Medical Center	N/A			N/A	N/A			N/A
Family Health West Hospital	1	---	N/A	Suppressed ¹	N/A			N/A
Grand River Medical Center	N/A			N/A	N/A			N/A
Gunnison Valley Hospital	6	---	N/A	Suppressed ¹	3	---	N/A	Suppressed ¹
Heart of the Rockies Regional Medical Center	N/A			N/A	N/A			N/A
Melissa Memorial Hospital	N/A			N/A	N/A			N/A
Memorial Hospital	N/A			N/A	N/A			N/A
Middle Park Medical Center	N/A			N/A	N/A			N/A
Mt. San Rafael Hospital	1	---	N/A	Suppressed ¹	N/A			N/A
Pagosa Springs Medical Center	N/A			N/A	N/A			N/A
Pioneers Medical Center	N/A			N/A	N/A			N/A

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Prowers Medical Center	N/A			N/A	N/A			N/A
Rio Grande Hospital	N/A			N/A	N/A			N/A
Southwest Memorial Hospital	1	---	N/A	Suppressed ¹	N/A			N/A
Spanish Peaks Regional Health Center	N/A			N/A	N/A			N/A
UCHealth Pikes Peak Regional Hospital	4	---	N/A	Suppressed ¹	10	---	N/A	Suppressed ¹
Wray Community District Hospital	1	---	N/A	Suppressed ¹	N/A			N/A
Yuma District Hospital	N/A			N/A	N/A			N/A

¹ Calculation of comparison is not available due to data suppression for one of the following reasons: The number of procedures was fewer than 20, or the predicted number of infections was less than one.

Suppressed data are defined as "N/A"; N/A, not applicable.

SIR, standardized infection ratio; N/A, not applicable.

Data source: National Healthcare Safety Network.

Note: Some 2021 data may appear different than previously reported if facilities entered additional data into NHSN after the 2021 reporting deadline.

Surgical site infections following knee replacement surgeries

Fifty-two acute care hospitals reported performing inpatient knee replacement surgeries in 2022 (Table 30). Of these, one acute care hospital reported a rate of SSIs following knee replacement surgery that was lower (better) than the national baseline. Three reported a rate of SSIs that was higher (worse) than the national baseline. Twenty-one reported a rate of SSIs that was similar to (not significantly different from) the national baseline. Rates of SSIs for 27 were suppressed, and comparisons to the national baseline were not possible.

Forty-six acute care hospitals reported outpatient knee replacement surgeries in 2022. Of these, one acute care hospital reported a rate of SSIs following knee replacement surgery that was lower (better) than the national baseline. Eleven reported a rate of SSIs that was similar to (not significantly different from) the national baseline. Rates of SSIs for 34 were suppressed, and comparisons to the national baseline were not possible.

Twenty-five ambulatory surgery centers reported performing knee replacement surgeries in 2022. Rates of SSIs following knee replacement surgery were suppressed for all, and comparisons to the national baseline were not possible.

Twenty-one critical access hospitals reported performing inpatient knee replacement surgeries in 2022. Of these, one reported a rate of SSIs following knee replacement surgery that was similar to (not significantly different from) the national baseline. Rates of SSIs for 20 were suppressed, and comparisons to the national baseline were not possible.

Fifteen critical access hospitals reported outpatient knee replacement surgeries in 2022. Rates of SSIs following knee replacement surgery were suppressed for all, and comparisons to the national baseline were not possible.

Table 30. Surgical site infections following knee replacement surgeries (total or partial) – Colorado, Jan. 1, 2021 - Dec. 31, 2022.

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Acute care hospitals, inpatient procedures								
Animas Surgical Hospital, LLC	256	1	0.8	Not significant	295	3	2.3	Not significant
Banner Fort Collins Medical Center	88	0	N/A	Suppressed ¹	63	0	N/A	Suppressed ¹
Centennial Hospital	56	1	N/A	Suppressed ¹	130	1	N/A	Suppressed ¹
Centura Avista Adventist Hospital	71	0	N/A	Suppressed ¹	98	1	N/A	Suppressed ¹
Centura Castle Rock Adventist Hospital	128	2	N/A	Suppressed ¹	155	2	1.8	Not significant
Centura Littleton Adventist Hospital	405	0	0.0	Not significant	379	2	1.0	Not significant
Centura Longmont United Hospital	158	0	N/A	Suppressed ¹	130	0	N/A	Suppressed ¹
Centura Mercy Hospital	95	0	N/A	Suppressed ¹	94	0	N/A	Suppressed ¹
Centura Parker Adventist Hospital	154	1	N/A	Suppressed ¹	135	2	N/A	Suppressed ¹
Centura Penrose Hospital	476	1	0.3	Not significant	355	1	0.5	Not significant
Centura Porter Adventist Hospital	626	2	0.4	Not significant	563	0	0.0	Better
Centura St. Anthony Hospital	33	0	N/A	Suppressed ¹	36	0	N/A	Suppressed ¹
Centura St. Anthony North Hospital	184	3	1.7	Not significant	212	4	2.4	Not significant
Centura St. Elizabeth Hospital	23	---	N/A	Suppressed ¹	28	---	N/A	Suppressed ¹
Centura St. Mary-Corwin Hospital	266	2	1.1	Not significant	349	2	0.8	Not significant

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Community Hospital	176	2	N/A	Suppressed ¹	150	1	N/A	Suppressed ¹
Delta County Memorial Hospital	130	0	N/A	Suppressed ¹	66	0	N/A	Suppressed ¹
Denver Health Medical Center	142	0	0.0	Not significant	104	0	N/A	Suppressed ¹
Foothills Hospital	350	0	0.0	Not significant	388	1	0.7	Not significant
Good Samaritan Medical Center	498	4	1.8	Not significant	291	2	1.4	Not significant
Longs Peak Hospital	87	0	N/A	Suppressed ¹	73	3	N/A	Suppressed ¹
Lutheran Medical Center	139	0	N/A	Suppressed ¹	90	0	N/A	Suppressed ¹
McKee Medical Center	79	0	N/A	Suppressed ¹	108	0	N/A	Suppressed ¹
Medical Center of Aurora	196	1	0.7	Not significant	147	3	2.5	Not significant
Medical Center of the Rockies	201	2	1.9	Not significant	293	1	0.6	Not significant
Montrose Regional Health	180	0	N/A	Suppressed ¹	131	0	N/A	Suppressed ¹
North Colorado Medical Center	255	0	0.0	Not significant	254	1	0.4	Not significant
North Suburban Medical Center	35	0	N/A	Suppressed ¹	19	---	N/A	Suppressed ¹
OrthoColorado Hospital at St. Anthony Medical Campus	1,012	6	1.4	Not significant	932	3	0.8	Not significant
Parkview Medical Center, Inc.	125	2	1.8	Not significant	282	1	0.5	Not significant
Platte Valley Medical Center	175	2	1.8	Not significant	213	0	N/A	Suppressed ¹
Poudre Valley Hospital	807	1	0.2	Not significant	919	12	2.5	Worse
Presbyterian St. Luke's Medical	267	8	3.6	Worse	210	7	3.5	Worse

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Center								
Rose Medical Center	531	0	0.0	Not significant	423	1	0.4	Not significant
Saint Joseph Hospital	506	2	0.5	Not significant	327	2	0.9	Not significant
San Luis Valley Health	102	0	N/A	Suppressed ¹	100	1	N/A	Suppressed ¹
Sky Ridge Medical Center	689	2	0.4	Not significant	552	3	0.6	Not significant
St. Mary's Medical Center	82	0	N/A	Suppressed ¹	116	2	1.6	Not significant
St. Anthony Summit Medical Center	11	---	N/A	Suppressed ¹	9	---	N/A	Suppressed ¹
St. Francis Medical Center	889	7	1.1	Not significant	963	9	1.3	Not significant
Sterling Regional Medical Center	30	0	N/A	Suppressed ¹	37	1	N/A	Suppressed ¹
Swedish Medical Center	221	2	1.1	Not significant	177	1	0.8	Not significant
UCHealth Broomfield Hospital	210	4	3.7	Worse	133	1	N/A	Suppressed ¹
UCHealth Grandview Hospital	710	8	2.4	Worse	367	2	1.3	Not significant
UCHealth Greeley Hospital	22	---	N/A	Suppressed ¹	18	---	N/A	Suppressed ¹
UCHealth Highlands Ranch Hospital	120	1	N/A	Suppressed ¹	130	0	N/A	Suppressed ¹
UCHealth Yampa Valley Medical Center	100	1	N/A	Suppressed ¹	69	1	N/A	Suppressed ¹
UCHealth Memorial Hospital Central	25	---	N/A	Suppressed ¹	30	0	N/A	Suppressed ¹

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
UCHealth at Memorial Hospital North	130	1	N/A	Suppressed ¹	236	0	0.0	Not significant
University of Colorado Hospital	236	6	2.7	Worse	254	6	3.2	Worse
Vail Health Hospital	18	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
Valley View Hospital Association	188	0	N/A	Suppressed ¹	175	0	N/A	Suppressed ¹
Acute care hospitals, outpatient procedures								
Animas Surgical Hospital, LLC	N/A			N/A	7	---	N/A	N/A
Banner Fort Collins Medical Center	15	---	N/A	Suppressed ¹	29	---	N/A	Suppressed ¹
Centennial Hospital	96	0	N/A	Suppressed ¹	210	1	0.5	Not significant
Centura Avista Adventist Hospital	30	0	N/A	Suppressed ¹	59	0	N/A	Suppressed ¹
Centura Castle Rock Adventist Hospital	34	0	N/A	Suppressed ¹	16	---	N/A	Suppressed ¹
Centura Littleton Adventist Hospital	119	0	N/A	Suppressed ¹	139	0	N/A	Suppressed ¹
Centura Longmont United Hospital	38	0	N/A	Suppressed	57	0	N/A	Suppressed ¹
Centura Mercy Hospital	22	---	N/A	Suppressed ¹	52	0	N/A	Suppressed ¹
Centura Parker Adventist Hospital	127	1	0.9	Not significant	123	0	N/A	Suppressed ¹
Centura Penrose Hospital	16	---	N/A	Suppressed ¹	12	---	N/A	Suppressed ¹
Centura Porter Adventist Hospital	320	1	N/A	Suppressed ¹	370	0	0.0	Better
Centura St. Anthony Hospital	2	---	N/A	Suppressed ¹	1	---	N/A	Suppressed ¹

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Centura St. Anthony North Hospital	288	1	0.3	Not significant	358	2	0.6	Not significant
Centura St. Elizabeth Hospital	3	---	N/A	Suppressed ¹	7	---	N/A	Suppressed ¹
Centura St. Mary-Corwin Hospital	103	0	0.0	Not significant	56	0	N/A	Suppressed ¹
Community Hospital	28	---	N/A	Suppressed ¹	87	0	N/A	Suppressed ¹
Delta County Memorial Hospital	8	---	N/A	Suppressed ¹	58	0	N/A	Suppressed ¹
Denver Health Medical Center	83	0	0.0	Not significant	146	0	0.0	Not significant
Foothills Hospital	125	0	N/A	Suppressed ¹	201	0	N/A	Suppressed ¹
Good Samaritan Medical Center	93	0	N/A	Suppressed ¹	375	0	N/A	Suppressed ¹
Longs Peak Hospital	15	---	N/A	Suppressed ¹	44	0	N/A	Suppressed ¹
Lutheran Medical Center	76	0	N/A	Suppressed ¹	94	0	N/A	Suppressed ¹
McKee Medical Center	9	---	N/A	Suppressed ¹	26	---	N/A	Suppressed ¹
Medical Center of Aurora	142	0	0.0	Not significant	146	0	0.0	Not significant
Medical Center of the Rockies	2	---	N/A	Suppressed ¹	1	---	N/A	Suppressed ¹
Montrose Regional Health	2	---	N/A	Suppressed ¹	2	---	N/A	Suppressed ¹
North Colorado Medical Center	14	---	N/A	Suppressed ¹	14	---	N/A	Suppressed
North Suburban Medical Center	61	0	N/A	Suppressed	39	0	N/A	Suppressed ¹
OrthoColorado Hospital at St. Anthony Medical Campus	412	1	N/A	Suppressed ¹	615	0	0.0	Not significant

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Parkview Medical Center, Inc.	130	0	0.0	Not significant	6	---	N/A	Suppressed ¹
Platte Valley Medical Center	16	---	N/A	Suppressed ¹	9	---	N/A	Suppressed ¹
Poudre Valley Hospital	7	---	N/A	Suppressed ¹	62	0	N/A	Suppressed ¹
Presbyterian St. Luke's Medical Center	20	---	N/A	Suppressed ¹	14	---	N/A	Suppressed ¹
Rose Medical Center	33	0	N/A	Suppressed ¹	51	0	N/A	Suppressed ¹
Saint Joseph Hospital	31	0	N/A	Suppressed ¹	256	1	0.5	Not significant
San Luis Valley Health	6	---	N/A	Suppressed ¹	15	---	N/A	Suppressed ¹
Sky Ridge Medical Center	442	4	1.1	Not significant	683	4	0.7	Not significant
St. Mary's Medical Center	149	1	0.8	Not significant	305	3	1.2	Not significant
St. Anthony Summit Medical Center	N/A			N/A	N/A			N/A
St. Francis Medical Center	63	2	N/A	Suppressed	93	0	0.0	Not significant
Sterling Regional Medical Center	N/A			N/A	N/A			N/A
Swedish Medical Center	207	1	0.5	Not significant	159	0	0.0	Not significant
UCHealth Broomfield Hospital	N/A			N/A	37	1	N/A	Suppressed ¹
UCHealth Grandview Hospital	8	---	N/A	Suppressed ¹	12	---	N/A	Suppressed ¹
UCHealth Greeley Hospital	1	---	N/A	Suppressed ¹	N/A			N/A
UCHealth Highlands Ranch Hospital	99	0	N/A	Suppressed ¹	157	2	N/A	Suppressed ¹

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
UCHealth Yampa Valley Medical Center	13	---	N/A	Suppressed ¹	22	---	N/A	Suppressed ¹
UCHealth Memorial Hospital Central	N/A			N/A	N/A			N/A
UCHealth at Memorial Hospital North	3	---	N/A	Suppressed ¹	N/A			N/A
University of Colorado Hospital	47	1	N/A	Suppressed ¹	111	1	0.9	Not significant
Vail Health Hospital	442	0	0.0	Not significant	N/A			N/A
Valley View Hospital Association	53	0	N/A	Suppressed ¹	73	0	N/A	Suppressed ¹
Ambulatory surgery centers, outpatient procedures								
Aberdeen Ambulatory Surgical Center, LLC	N/A			N/A	N/A			N/A
Arete Surgical Center, LLC	1	---	N/A	Suppressed ¹	N/A			N/A
Arkansas Valley Surgery Center	N/A			N/A	N/A			N/A
Ascent Surgery Center, LLC	N/A			N/A	N/A			N/A
Audubon Ambulatory Surgery Center	42	0	N/A	Suppressed ¹	66	0	N/A	Suppressed ¹
Audubon ASC at St. Francis	138	0	N/A	Suppressed ¹	115	3	N/A	Suppressed ¹
Black Canyon Surgical Center, LLC	N/A			N/A	N/A			N/A
Boulder Surgery Center	107	1	N/A	Suppressed ¹	107	0	N/A	Suppressed ¹
Canyon View Surgery Center	N/A			N/A	N/A			N/A

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Castle Rock Surgicenter, LLC	22	---	N/A	Suppressed ¹	81	0	N/A	Suppressed ¹
Centrum Surgery Center, LTD	N/A			N/A	N/A			N/A
Children's North Surgery Center	N/A			N/A	N/A			N/A
Clear Creek Surgery Center, LLC	N/A			N/A	N/A			N/A
Crown Point Surgery Center	167	0	N/A	Suppressed ¹	72	0	N/A	Suppressed ¹
Denver Surgery Center	168	0	N/A	Suppressed ¹	224	0	N/A	Suppressed ¹
Dillion Surgery Center	N/A			N/A	27	---	N/A	Suppressed ¹
Flatirons Surgery Center, LLC	35	1	N/A	Suppressed ¹	23	---	N/A	Suppressed ¹
Foothills Surgery Center, LLC	N/A			N/A	N/A			N/A
Front Range Orthopedic Surgery Center, LLC	50	1	N/A	Suppressed ¹	50	0	N/A	Suppressed ¹
Grand Valley Surgical Center, LLC	1	---	N/A	Suppressed ¹	8	---	N/A	Suppressed ¹
Harmony Surgery Center, LLC	N/A			N/A	N/A			N/A
Harvard Par/k Surgery Center	N/A			N/A	N/A			N/A
Insight Surgery Center, LLC	N/A			N/A	N/A			N/A
Kaiser Permanente Ambulatory Surgical Center, Lone Tree	297	2	N/A	Suppressed ¹	377	0	N/A	Suppressed ¹
Kaiser Permanente Ambulatory Surgery Center	N/A			N/A	N/A			N/A

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Lincoln Surgery Center, LLC	171	0	N/A	Suppressed ¹	90	0	N/A	Suppressed ¹
Loveland Surgery Center	N/A			N/A	20	---	N/A	N/A
Midtown Surgical Center	71	0	N/A	Suppressed ¹	82	0	N/A	Suppressed ¹
Midvalley Ambulatory Surgery Center	N/A			N/A	N/A			N/A
Mile High Surgicenter, LLC	176	2	N/A	Suppressed ¹	8	---	N/A	Suppressed ¹
Mountain Vista Orthopaedic Surgery Center, LLC	11	---	N/A	Suppressed ¹	5	---	N/A	Suppressed ¹
Musculoskeletal Surgery Center	N/A			N/A	N/A			N/A
North Suburban Surgery Center	N/A			N/A	N/A			N/A
OCR Fort Collins Surgery Center	216	0	N/A	Suppressed ¹	326	0	N/A	Suppressed ¹
OCR Loveland Surgery Center	917	3	N/A	Suppressed ¹	874	2	N/A	Suppressed ¹
Orthopaedic And Spine Center of Southern Colorado	143	1	N/A	Suppressed ¹	190	0	N/A	Suppressed ¹
Park Meadows Outpatient Surgery	N/A			N/A	N/A			N/A
Park Ridge Surgery Center	N/A			N/A	N/A			N/A
Parkwest Surgery Center, LLC	N/A			N/A	N/A			N/A
Peak One Surgery Center, LLC	N/A			N/A	N/A			N/A
Pueblo Ambulatory Surgery Center, LLC	N/A			N/A	N/A			N/A

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Red Rocks Surgery Center	N/A			N/A	N/A			N/A
Rocky Mountain Surgery Center, LLC	76	0	N/A	Suppressed ¹	108	0	N/A	Suppressed ¹
Rose Surgical Center	4	---	N/A	Suppressed ¹	5	---	N/A	Suppressed ¹
Sky Ridge Surgical Center	N/A			N/A	N/A			N/A
Skyline Endoscopy Center	12	---	N/A	Suppressed ¹	N/A			N/A
Summit View Surgery Center LLC	N/A			N/A	N/A			N/A
Surgery Center at Cherry Creek	123	0	N/A	Suppressed ¹	N/A			N/A
Surgery Center at Kissing Camels, LLC	N/A			N/A	N/A			N/A
Surgery Center at Lutheran	60	0	N/A	Suppressed ¹	79	1	N/A	Suppressed ¹
Surgery Center of Colorado	N/A			N/A	N/A			N/A
Surgery Center of the Rockies	N/A			N/A	N/A			N/A
Surgical Center of the Rockies	23	---	N/A	Suppressed ¹	56	0	N/A	Suppressed ¹
Vail Valley Surgery Center, Edwards	376	0	N/A	Suppressed ¹	391	1	N/A	Suppressed ¹
Vail Valley Surgery Center, Vail	N/A			Suppressed ¹	2	---	N/A	Suppressed ¹
Critical access hospitals, inpatient procedures								
Arkansas Valley Regional Medical Center	29	---	N/A	Suppressed ¹	17	---	N/A	Suppressed ¹
Aspen Valley Hospital	30	0	N/A	Suppressed ¹	65	1	N/A	Suppressed ¹

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Centura St. Thomas More Hospital	77	3	N/A	Suppressed ¹	93	0	N/A	Suppressed ¹
East Morgan County Hospital	0	---	N/A	Suppressed ¹	0	---	N/A	Suppressed ¹
Estes Park Medical Center	18	---	N/A	Suppressed ¹	12	---	N/A	Suppressed ¹
Family Health West Hospital	36	0	N/A	Suppressed ¹	45	0	N/A	Suppressed ¹
Grand River Medical Center	46	0	N/A	Suppressed ¹	14	---	N/A	Suppressed ¹
Gunnison Valley Hospital	1	---	N/A	Suppressed ¹	4	---	N/A	Suppressed ¹
Heart of the Rockies Regional Medical Center	88	1	N/A	Suppressed ¹	98	5	N/A	Suppressed ¹
Melissa Memorial Hospital	8	---	N/A	Suppressed ¹	3	---	N/A	Suppressed ¹
Memorial Hospital	34	0	N/A	Suppressed ¹	39	0	N/A	Suppressed ¹
Middle Park Medical Center	2	---	N/A	Suppressed ¹	6	---	N/A	Suppressed ¹
Mt. San Rafael Hospital	17	---	N/A	Suppressed ¹	23	---	N/A	Suppressed ¹
Pagosa Springs Medical Center	22	---	N/A	Suppressed ¹	24	---	N/A	Suppressed ¹
Pioneers Medical Center	202	0	0.0	Not significant	247	0	0.0	Not significant
Prowers Medical Center	7	---	N/A	Suppressed ¹	13	---	N/A	Suppressed ¹
Rio Grande Hospital	13	---	N/A	Suppressed ¹	13	---	N/A	Suppressed ¹
San Luis Valley Health Conejos County Hospital	N/A			N/A	N/A			N/A
Southeast Colorado Hospital	N/A			N/A	N/A			N/A
Southwest Memorial Hospital	57	0	N/A	Suppressed ¹	12	---	N/A	Suppressed ¹

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Spanish Peaks Regional Health Center	N/A			N/A	N/A			N/A
St. Vincent General Hospital District	N/A			N/A	N/A			N/A
UCHealth Pikes Peak Regional Hospital	20	---	N/A	Suppressed ¹	12	---	N/A	Suppressed ¹
Wray Community District Hospital	26	---	N/A	Suppressed ¹	47	0	N/A	Suppressed ¹
Yuma District Hospital	0	---	N/A	Suppressed ¹	4	---	N/A	Suppressed ¹
Critical access hospitals, outpatient procedures								
Arkansas Valley Regional Medical Center	N/A			N/A	1	---	N/A	Suppressed ¹
Aspen Valley Hospital	4	---	N/A	Suppressed ¹	34	0	N/A	Suppressed ¹
Centura St. Thomas More Hospital	N/A			N/A	1	---	N/A	Suppressed ¹
East Morgan County Hospital	N/A			N/A	N/A			N/A
Estes Park Medical Center	N/A			N/A	N/A			N/A
Family Health West Hospital	N/A			N/A	1	---	N/A	Suppressed ¹
Grand River Medical Center	7	---	N/A	Suppressed ¹	1	---	N/A	Suppressed ¹
Gunnison Valley Hospital	28	---	N/A	Suppressed ¹	31	0	N/A	Suppressed ¹
Heart of the Rockies Regional Medical Center	N/A			N/A	N/A			N/A
Melissa Memorial Hospital	N/A			N/A	1	---	N/A	Suppressed ¹
Memorial Hospital	5	---	N/A	Suppressed ¹	2	---	N/A	Suppressed ¹

Facility name	2021				2022			
	Number of procedures	Number of infections	SIR	National comparison	Number of procedures	Number of infections	SIR	National comparison
Middle Park Medical Center	N/A			N/A	1	---	N/A	Suppressed ¹
Mt. San Rafael Hospital	1	---	N/A	Suppressed ¹	N/A			N/A
Pagosa Springs Medical Center	1	---	N/A	Suppressed ¹	1	---	N/A	Suppressed ¹
Pioneers Medical Center	4	---	N/A	Suppressed ¹	3	---	N/A	Suppressed ¹
Prowers Medical Center	2	---	N/A	Suppressed ¹	1	---	N/A	Suppressed ¹
Rio Grande Hospital	N/A			N/A	N/A			N/A
Southwest Memorial Hospital	27	---	N/A	Suppressed ¹	68	0	N/A	Suppressed ¹
Spanish Peaks Regional Health Center	N/A			N/A	N/A			N/A
UCHealth Pikes Peak Regional Hospital	N/A			N/A	N/A			N/A
Wray Community District Hospital	3	---	N/A	Suppressed ¹	4	---	N/A	Suppressed ¹
Yuma District Hospital	5	---	N/A	Suppressed ¹	3	---	N/A	Suppressed ¹

¹ Calculation of comparison is not available due to data suppression for one of the following reasons: The number of procedures was fewer than 20, or the predicted number of infections was less than one.

Suppressed data are defined as "N/A"; N/A, not applicable.

SIR, standardized infection ratio; N/A, not applicable.

Data source: National Healthcare Safety Network.

Note: Some 2021 data may appear different than previously reported if facilities entered additional data into NHSN after the 2021 reporting deadline.

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Appendix A

Glossary of terms and abbreviations^{8,15}

Access-related bloodstream infection (ARBSI): The presence of bacteria in the blood and verified by culture with the source identified as the vascular access site or is unknown.

Bloodstream infection (BSI): An infection of the blood identified by a positive culture in NHSN.

Catheter-associated urinary tract infection (CAUTI): A urinary tract infection associated with the use of a urinary catheter, symptoms and signs of infection, and a positive urine culture.

Catheter-days: A count of days a urinary catheter is in patients over time.

Central line: A intravenous catheter (flexible tube) that ends at or close to the heart or in one of the great vessels. A central line may be non-tunneled (travels directly from the skin entry site to a vein) or tunneled (travels a distance under the skin from the point of insertion before entering a vein).

Central line-associated bloodstream infection (CLABSI): A primary bloodstream infection (BSI) in a patient that had a central line within the 48-hour period before the development of the BSI.

Central line-days (device days): A count of days a central line is in place over time.

Critical care unit: A nursing care area that provides intensive observation, diagnosis, and therapeutic procedures for adults and/or children who are critically ill.

Dialysis event: An event for a dialysis patient involving any one of three possible scenarios: 1) Intravenous (IV) antimicrobial start, 2) a positive blood culture, and 3) pus, redness, or increased swelling at the vascular access site. Dialysis event reporting involves outpatient facilities only.

Fascia: A thin layer of connective tissue covering, supporting, or connecting the muscles or inner organs of the body.

Great vessel: Based on NHSN criteria for reporting CLABSI, the following are considered great vessels: Aorta, pulmonary artery, superior vena cava, inferior vena cava, brachiocephalic veins, internal jugular veins, subclavian veins, external iliac veins, common iliac veins, common femoral veins, and in neonates, the umbilical artery and vein.

Healthcare-associated infection (HAI): An infection of a patient that occurs in a health care setting which was not present or incubating at the time of admission.

Hip replacement surgery: An elective procedure for people with severe hip damage or pain related to chronic osteoarthritis, rheumatoid arthritis, or other degenerative processes involving the hip joint. Involves placement of an implant.

Implant: A nonhuman-derived object, material, or tissue that is permanently placed in a patient during an operation. Examples include heart valves, metal rods, mesh, wires, screws, cements, hip replacements, and other devices.

Infection preventionist (IP): A health professional that has special training in infection prevention.

Inpatient: A patient whose date of admission to a health care facility and the date of discharge are different calendar days.

Intravenous (IV) antimicrobial start: A start of intravenous (IV) antibiotics or antifungals administered in a reporting outpatient dialysis facility, regardless of the reason for administration and regardless of the duration of treatment. A start is defined as a single outpatient dose or first outpatient dose of a course.

Knee replacement surgery: An elective procedure for people with severe knee damage and pain related to osteoarthritis, rheumatoid arthritis, and traumaticarthritis. Involves placement of an implant.

Local access infection (LASI): Pus, redness, or swelling of the vascular access site and an ARBSI is not present.

National baseline: The number of predicted infections calculated using a model developed in 2015 from national data in order to account for differences in facility characteristics and patient populations. The national baseline allows facilities to compare observed counts of infection to counts of infections from facilities with similar characteristics in the form of a risk-adjusted rate known as the standardized infection ratio (SIR).

National Healthcare Safety Network (NHSN): NHSN is a secure, internet-based public health surveillance (monitoring and reporting) system managed by Centers for Disease Control and Prevention's (CDC) Division of Healthcare Quality Promotion.

NHSN operative procedure: A procedure that meets the following criteria: 1) Performed on a patient who is a NHSN inpatient or outpatient; 2) takes place during an operation where at least one incision is made through the skin or mucous membrane, or entry is through an existing incision; and 3) included in the NHSN operative procedure categories.

NHSN reportable surgical procedure: An operation that takes place in an operating room and where at least one incision is made through the skin or mucous membrane, or reoperation via an incision that was left open during a prior operative procedure, and is included in the ICD-10-PCS or CPT NHSN operative procedure code mapping.

Neonate: An infant younger than or up to 30 days old.

Neonatal critical care unit (NCCU): Patient care area providing care to critically ill neonates.

Outpatient: Patient whose date of admission to the facility and date of discharge are the same day.

Patient-days: The total number of inpatients for a particular unit determined at the same time each day for every day of the month, recorded as a total sum for the month.

Rate: An expression of the frequency with which an event occurs among a defined population and specific time-period.

Risk: The probability that an adverse event will occur (e.g., that a person will be affected by, or die from, an illness, injury, or other health condition within a specified time or age span).

Risk adjustment: An estimate of risk that accounts for differences in facility characteristics and/or patient populations, enabling hospital comparisons.

Risk-adjusted rate: A risk-adjusted rate is a rate of infection that accounts for differences in patient populations and/or hospital characteristics between hospitals. Risk adjustment is accomplished by comparing an actual (observed) rate to the rate that is expected based on national data from similar patient populations and/or hospital characteristics.

Risk factor: An aspect of personal behavior/lifestyle, environmental exposure, or hereditary characteristic associated with an increased occurrence of a disease, injury, or other health condition.

Standardized infection ratio (SIR): A risk-adjusted summary measure that accounts for the type of procedure and risk category. The SIR compares the actual number of HAIs reported to the number that would be predicted for a facility with similar characteristics and/or patient population (i.e., the national baseline). A SIR greater than 1.0 indicates that more HAIs were observed than predicted. Conversely, an SIR less than 1.0 indicates that fewer HAIs were observed than predicted.

Surgical site infection (SSI): Infections that are directly related to an operative procedure. Some SSIs are minor and only involve the skin or subcutaneous tissue. Other SSIs may be deeper and more serious.

- *Superficial incision infection:* Involves only the top layers of the skin (e.g., skin and subcutaneous tissue).
- *Deep incision infection:* Involves deeper soft tissues (e.g., fascia and muscle layers).
- *Organ space infection:* Involves any part of the body deeper than the fascial/muscle layers that is opened or manipulated during the operative procedure.

Urinary catheter: A tube placed in the bladder to help with urination.

Validation: A method of assessing the completeness and accuracy of reported HAI data.

Vascular access infection: An infection that is either a local access infection or access-related bloodstream infection.

Appendix B

Facility types

Certain health care facility types in Colorado must report healthcare-associated infections by Colorado law (CRS 25-3-601-607). A detailed list of the current reportable conditions can be found on the CDPHE website

(<https://www.colorado.gov/pacific/cdphe/hai-professionals>) under “HAI ReportableConditions.”

Acute care hospitals: Facilities that primarily provide inpatient services, including diagnostic, therapeutic, or rehabilitation services. Details on acute care hospital reporting can be found on the acute care hospital NHSN webpage

(<https://www.cdc.gov/nhsn/acute-care-hospital/index.html>).

Ambulatory surgery center: A facility which operates exclusively for providing surgical services to patients not requiring hospitalization. Details on ambulatory surgery center reporting can be found on the ambulatory surgery center NHSN

webpage (<https://www.cdc.gov/nhsn/ambulatory-surgery/index.html>).

Critical access hospital: A designation given to certain rural hospitals by the Centers for Medicare and Medicaid Services (CMS) to reduce financial vulnerability and improve access to health care by keeping essential services in rural communities.

A critical access hospital must have 25 or fewer acute care inpatient beds, be more than 35 miles from another hospital, maintain an average length of stay of 96 hours or less for acute care patients, and provide 24/7 emergency care services.

Details on critical access hospitals can be found on the critical access hospitals CMS webpage

(<https://www.cms.gov/Medicare/Provider-Enrollment-and-Certification/CertificationandCompliance/CAHs.html>).

Dialysis facility: A facility which operates exclusively to provide dialysis services to patients not requiring hospitalization.

Details on dialysis facility reporting can be found on the outpatient dialysis NHSN webpage

(<https://www.cdc.gov/nhsn/dialysis/index.html>).

Inpatient rehabilitation facility: Inpatient rehabilitation facilities and inpatient rehabilitation wards in hospitals care for patients who have lost function due to an injury or medical condition. Details on inpatient rehabilitation facility reporting can be found

on the inpatient rehabilitation facility NHSN webpage (<https://www.cdc.gov/nhsn/inpatient-rehab/index.html>).

Long-term acute care hospital: A specialty care hospital that cares for patients with serious medical conditions that require intense, special treatment for long periods of time (an average length of stay is 25 days). Details on long-term acute care hospital

reporting can be found on the long-term acute care hospital NHSN webpage (<https://www.cdc.gov/nhsn/ltach/index.html>).

Appendix C

Standardized infection ratio

The standardized infection ratio (SIR) is a risk-adjusted summary measure used throughout this report.¹⁴ The SIR compares the actual number of healthcare-associated infections (HAIs) reported to the number that would be predicted, given the standard population (i.e., National Healthcare Safety Network [NHSN], or national, baseline). The SIR accounts for several risk factors that have been found to influence infection rates. The number of predicted infections is calculated based on a statistical model developed from 2015 national HAI aggregate data.

The SIR is a ratio of the number of observed infections divided by the number of predicted infections. A SIR greater than 1.0 indicates that more infections were observed than predicted (i.e., the rate is higher [worse] than the national baseline). Conversely, an SIR less than 1.0 indicates that fewer infections were observed than predicted (i.e., the rate is lower [better] than the national baseline). A statistical test is used to determine the probability that the observed value of the SIR, or one more extreme, is a “chance finding” when in truth there is no difference between the number of observed and predicted infections. When the statistical test indicates a probability >5% that the true value of the SIR is actually 1.0 regardless of the calculated value, the SIR is reported to be similar to (not significantly different from) the national baseline or “not significant.”

For some conditions, SIRs are not available. This report presents crude rates for these conditions that are not adjusted for characteristics of the facility and/or patient population that may influence differences in rates between facilities. For this reason, crude rates of infection should be interpreted with caution. For a more detailed explanation of how the SIR is calculated, see NHSN’s SIR guide (<https://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/nhsn-sir-guide.pdf>).

Crude rates

Crude rates are reported when risk-adjusted rates (i.e., SIR) are not available through NHSN. Crude rates are reported with a national comparison for dialysis events. Rates without a national comparison are reported for selected surgical site infections (following hip replacements) among ambulatory surgery centers.

Dialysis

This report does not include a statistical comparison of ARBSI rates to the pooled national rate. A SIR for ARBSI is not available in NHSN.