



Healthcare-associated infections (HAIs) are infections patients can get while receiving medical treatment in a healthcare facility. Working toward the elimination of HAIs is a CDC and Connecticut Department of Public Health priority. The standardized infection ratio (SIR) is a summary statistic that can be used to track HAI prevention progress over time; lower SIRs are better. The infection data are reported to NHSN and analyzed by the CT DPH.

This report is based on 2018 data.

CLABSIs

SIR = 0.19

CENTRAL LINE-ASSOCIATED BLOODSTREAM INFECTIONS

When a tube is placed in a large vein and not put in correctly or kept clean, it can become a way for germs to enter the body and cause deadly infections in the blood.

-  20% Facility SIR was lower than the statewide 2018 SIR of 0.23 (not statistically significant)
-  82% Facility SIR was statistically significantly lower than the national baseline SIR of 1.0

CAUTIs

SIR = 1.77

CATHETER-ASSOCIATED URINARY TRACT INFECTIONS

When a urinary catheter is not put in correctly, not kept clean, or left in a patient for too long, germs can travel through the catheter and infect the bladder and kidneys.

-  41% Facility SIR was higher than the statewide 2018 SIR of 1.25 (but not statistically significantly)
-  77% Facility SIR was statistically significantly higher than the national baseline SIR of 1.0

MRSA Bacteremia

SIR = 0.77

LABORATORY IDENTIFIED HOSPITAL-ONSET BLOODSTREAM INFECTIONS

Methicillin-resistant *Staphylococcus aureus* (MRSA) is bacterium usually spread by contaminated hands. In a healthcare setting, such as a hospital, MRSA can cause serious bloodstream infections

-  68% Facility SIR was higher than the statewide 2018 SIR of 0.46 (but not statistically significantly)
-  23% Facility SIR was lower than the national baseline SIR of 1.0 (but not statistically significantly)

VAEs

SIR = 0.91

VENTILATOR-ASSOCIATED EVENTS

Mechanical ventilation saves lives but it can lead to serious health complications, which may result in longer mechanical ventilation periods, and longer ICU and hospital stays. Ventilator-associated pneumonia (VAE) is one of the most common ventilator associated event.

-  291% Facility SIR was statistically significantly higher than the statewide 2018 SIR of 0.23
-  9% Facility SIR was lower than the national baseline SIR of 1.0 (but not statistically significantly)

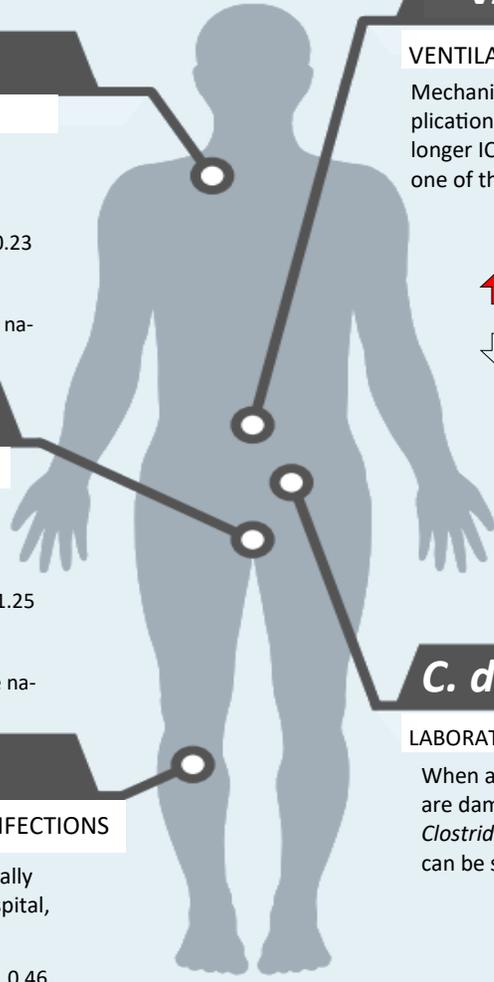
C. difficile Infections

SIR = 0.89

LABORATORY IDENTIFIED HOSPITAL-ONSET C. DIFFICILE INFECTIONS

When a person takes antibiotics, good bacteria that protect against infection are damaged for up to months. During this time, patients can get sick from *Clostridium difficile*, bacteria that cause potentially deadly diarrhea, which can be spread in healthcare settings.

-  221% Facility SIR was statistically significantly higher than the statewide 2018 SIR of 0.28
-  12% Facility SIR was lower than the national baseline SIR of 1.0 (but not statistically significantly)





HEALTHCARE ASSOCIATED INFECTIONS PROGRESS



WHAT IS THE STANDARDIZED INFECTION RATIO?

The standardized infection ratio (SIR) is a summary statistic that can be used to track HAI prevention progress over time; lower SIRs are better. The SIR for a facility or state is adjusted to account for factors that might cause infection rates to be higher or lower, such as hospital size, teaching status, the type of patients a hospital serves, and surgery and patient characteristics.

WHAT DO THE PERCENTAGES MEAN?

The percentage next to each arrow shows the percent change of the facility's SIR from the national baseline SIR of 1.0, or the change from the statewide SIR for that HAI in given type of unit in 2018.

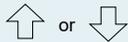
LEGEND



2018 facility SIR is significantly lower (better) than comparison group (state or national baseline)



2018 facility SIR is significantly higher (worse) than comparison group (state or national baseline)



2018 facility SIR is not statistically significantly different from comparison group; arrow direction indicates if SIR is more or less than comparison group



2018 facility SIR cannot be calculated

Statewide 2018 SIRs	
CLABSI	0.23
Adult ICUs	0.67
Adult Wards	0.00
Pediatric Wards	—
CAUTI	1.25
Adult ICUs	0.95
Adult Wards	1.47
VAE	0.23
Adult ICUs	0.55
Adult Wards	0.15
MRSA	0.46
CDI	0.28

HAI type	Unit type	Device days, number of procedures, or patient days	Observed infections	Predicted infections	SIR	95%CI	How does this facility compare?	
							State	National baseline
CLABSI	Adult ICUs	4,666	2	7.99	0.25	(0.04, 0.83)	↓ 63%	↓ 75%
	Adult Wards	3,231	0	2.83	0.00	(, 1.06)	↓ 0%	↓ 100%
CAUTI	Adult ICUs	2,304	6	5.14	1.17	(0.47, 2.43)	↑ 22%	↑ 17%
	Adult Wards	2,062	9	3.36	2.68	(1.31, 4.92)	↑ 83%	↑ 168%
MRSA events		26,373	2	2.59	0.77	(0.13, 2.55)	↑ 68%	↓ 23%
CDI events		39,289	30	33.92	0.89	(0.61, 1.25)	↑ 221%	↓ 12%
VAE	Adult ICUs	1,981	3	3.30	0.91	(0.23, 2.48)	↑ 65%	↓ 9%
	Adult Wards							

FACILITY PROFILE

Number of staffed beds	Full time infection preventionists (40hr/wk)	Beds/full-time IP
137	1.5	91.3