2020 Nationa

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Supplemental Tables Executive Summary

The National and State Healthcare-Associated Infections (HAI) Progress Report inpatient rehabilitation facilities (IRFs) and long-term acute care hospitals (LTAC The 2020 report includes summary of selected HAIs reported from pediatric and

The supplemental data includes infection-specific standardized infection ratios (
The SIR is the ratio of the observed number of infections (events) to the number
The SIR metrics are calculated using the 2015 national baseline and risk adjusts
NHSN's Guide to the SIR:

https://www.c

This report includes national data for the following HAI and facility types:

Oncology Hospitals	Oncology Locations	Pediatric Hospitals	Pediatric Locations
CLABSI	CLABSI	CLABSI	CLABSI
CAUTI	CAUTI	CAUTI	CAUTI
VAE	VAE	SSI*	
C. difficile		C. difficile	
MRSA bacteremia		MRSA bacteremia	
SSI-COLO and HYST		See Main Progress Report Table 2d	

^{*}National SSI data includes 39 inpatient surgical procedure categories reported

Please refer to the Executive Summary of the full report for the technical apper

al and State HAI Progress Report

plemental Data Tables 'ediatric and Oncology Data

t provides a summary of select HAIs across four healthcare settings; acute care hospitals (ACHs), critical Hs). Data from CAHs are provided in the detailed technical tables but not in the report itself. I oncology locations within ACHs as well as data from pediatric and oncology hospitals. These facility type

SIRs), which measure progress in reducing HAIs compared to the 2015 baseline time period. r of predicted infections (events) for a summarized time period. ment methodology. More information about these metrics can be found at: cdc.gov/nhsn/pdfs/ps-analysis-resources/nhsn-sir-guide.pdf

to NHSN.

ndix of how the Progress Report data are generated.

access hospitals (CAHs),

e-specific data provide national incidence data for 2020

HAI and Patient Population	No. of Oncology Hospitals Reporting ¹	Total Device Days ²
CLABSI, all ⁹ CAUTI, all ⁹ VAE, all ⁹	19 19 8	460,802 135,484 36,159
Laboratory-identified MRSA bacteremia, facility-wide10 Laboratory-identified C. difficile, facility-wide10	19 19	
COLO Colon surgery HYST Abdominal hysterectomy	15 16	

- 1. The number of reporting facilities from oncology hospitals only included in the SIR calculation.
- 2. The number of device days included in the calculation of the SIR
- 3. Total patient days reported from all inpatient units, excluding counts from CMS-certified rehabilitation and psychi
- 4. Total inpatient admissions reported from all inpatient locations, excluding counts from CMS-certified rehabilitation
- 5. Community-onset events are defined as those that were identified in an inpatient location on the first, second, or
- 6. SSIs included are those classified as deep incisional or organ/space infections following inpatient procedures that
- 7. Percent of facilities with at least one predicted infection (event) that had an SIR significantly greater than or less
- 8. Facility-specific percentiles are only calculated if at least 20 facilities had ≥1.0 predicted HAI in 2020. If a facility's
- 9. Data from all ICUs and wards (and other non-critical care locations). This excludes NICUs. For VAE, pediatric lo IVAC-plus includes those events identified as infection-related ventilator-associated condition (IVAC) and possib
- 10. Hospital-onset events are defined as those that were identified in an inpatient location on the 4th day (or later) a

Total Patient Days³	Total Inpatient Admissions ⁴	Inpatient Community- onset events⁵	Number of Procedures ⁶	No. of Infection	ns (Events)
				Observed	Predicted
784,187				438	501.598
777,252				134	139.932
12,414				58	37.338
804,726	128,963	66		68	104.188
798,279	125,235	324		617	1,074.840
			3,626	145	145.995
			3,203	44	31.109

atric locations. Patient days for *C.difficile* further excludes counts from NICUs and well-baby units. n and psychiatric locations. Admissions for C.difficile further excludes counts from NICUs and well-baby units. third day of a patient's admission to the facility. For *C.difficile*, this excluded events in which the patient was not occurred in 2020 with a primary or other than primary skin closure technique, detected during the same admit than the nominal value of the national SIR for the given HAI type. This is only calculated if at least 10 facilities predicted number of HAIs was <1.0, a facility-specific SIR was neither calculated nor included in the distributions are excluded from SIR since pediatric and neonatal locations are excluded from VAE surveillance. To le ventilator-associated pneumonia (pVAP). IVAC-plus events are a subset of the total VAE, meaning the IVAI after admission to the facility.

Table 2e. National standardized infection ratios (SIRs) and facility-specific Central line-associated bloodstream infections (CLABSIs), catheter-associand Clostridioides difficile (C.difficile) and surgical site infection colon su

	95% CI	for SIR		Facility-speci	fic SIRs	
SIR	Lower	Upper	No. Facilities with ≥1	No. Facilities		No. Facilitic
0.873	0.794	0.958	17	4	24%	1
0.958	0.805	1.130	10	0	0%	2
1.553	1.190	1.994	5		•	
0.653	0.511	0.822	11	0	0%	0
0.574	0.530	0.621	18	5	28%	1
0.993	0.841	1.165	12			
1.414	1.040	1.882	9			_

460,802 135,484 36,159

ecently discharged from the reporting facility in the previous 4 weeks.

nission as the surgical procedure or upon readmission to the same facility.

C-plus events are included in the total VAE SIR as well.

s had ≥ 1.0 predicted HAI in 2020.

tion of facility-specific SIRs.

tal VAE includes IVAC-plus events.

summary SIRs using HAI data reported to NHSN during 2020 by Oncology Hospitals, HAI, and patien itated urinary tract infections (CAUTIs), laboratory-identified methicillin-resistant Staphylococcus aururgery and abdomenal hysterectomy

									Percen
es with SIR	5%	10	0%	15%	20%	25%	30%	35%	40%
6% 20%									
0% 6%			·						

nt population:

eus (MRSA) bacteremia

tile Distribution o	f Facility-specific SIRs ⁸
<u> </u>	•

ti	<u>le Distribu</u>	ution of Fa Median	<u>cility-specif</u> i	c SIRs ⁸					
	45%	50%	55%	60%	65%	70%	75%	80%	85%
	-				•				
	•								
	•	•	•	•	•			•	•
	_								

90%	95%	

	HAI and Patient Population	No. of Acute Care Hospitals Reporting from Oncology Locations ¹
CLABSI, all⁴ ICUs⁵ Wards ⁶		493 22 491
CAUTI, all ⁷		483 22 481
VAE, all ⁷ ICU⁵ Ward ⁶		20 10 12

- 1. The number of reporting facilities included in the SIR calculation. Due to SIR exclusion criteria, this may
- 2. Percent of facilities with at least one predicted infection (event) that had an SIR significantly greater than
- 3. Facility-specific percentiles are only calculated if at least 20 facilities had ≥1.0 predicted HAI in 2020. If €
- 4. Data from all ICUs, wards (and other non-critical care locations), and NICUs.
- 5. Data from all ICUs; excludes wards (and other non-critical care locations) and NICUs. For VAE, pediatri
- 6. Data from all wards (for this table wards also include step-down and specialty care areas [including herr
- 7. Data from all ICUs and wards (and other non-critical care locations). This excludes NICUs. For VAE, pe IVAC-plus includes those events identified as infection-related ventilator-associated condition (IVAC) an

NOTE: Risk factors used in the calculation of the number of predicted device-associated infections are list

Total Patient Days	Total Device Days	No. of Infections (Events)			95% CI for SIR	
		Observed	Predicted	SIR	Lower	Upper
4,783,678	2,508,860	2,221	3,076.990	0.722	0.692	0.752
72,297	47,661	56	48.610	1.152	0.897	1.485
4,711,381	2,461,199	2,165	3,028.380	0.715	0.685	0.745
4,581,978	527,979	611	733.744	0.833	0.769	0.901
72,838	42,388	22	41.722	0.527	0.339	0.785
4,509,140	485,591	589	692.023	0.851	0.784	0.992
75,134	16,156	87	53.500	1.626	1.310	1.996
36,911	14,776	75	50.129	1.496	1.185	1.865
38,223	1,380	12	3.371	3.560	1.929	6.052

ed in Appendix A.

be different from the numbers shown in Table 1. These tables contain data from acute care hospitals; as some nor less than the nominal value of the national SIR for the given HAI type. This is only calculated if at leas a facility's predicted number of HAIs was <1.0, a facility-specific SIR was neither calculated nor included in

c locations are excluded from SIR since pediatric and neonatal locations are excluded from VAE surveillan natology/oncology, bone marrow transplant]). For VAE, pediatric locations are excluded from SIR since pediatric locations are excluded from SIR since pediatric and neonatal locations are excluded from VAE surveil possible ventilator-associated pneumonia (pVAP). IVAC-plus events are a subset of the total VAE, mear

Table 2e. National standardized infection ratios (SIRs) and facility-specific summary SIRs using HA Central line-associated bloodstream infections (CLABSIs) and catheter-associated urinary tract infe

	Facility-specifi	c SIRs			
No. Facilities with ≥1	No. Facilities w	ith SIR	No. Facilities wi	th SIR	
Predicted Infection (Event)	Significantly > Nat	ional SIR	Significantly < Nat	ional SIR	5%
	N	% ²	N		
406	21	5%	13	3%	0.000
13	1	8%	1	8%	
404	21	5%	14	3%	0.000
233	7	3%	3	1%	0.000
10	0	0%	1	10%	
232	7	3%	2	1%	0.000
7					
7					
0					

such, they exclude data from LTACHs, IRFs, and CAHs. t 10 facilities had ≥ 1.0 predicted HAI in 2020. the distribution of facility-specific SIRs.

ce.

diatric and neonatal locations are excluded from VAE surveillance. reillance. Total VAE includes IVAC-plus events. ning the IVAC-plus events are included in the total VAE SIR as well.

I data reported to NHSN during 2020 by facility type, HAI, and patient population: ∋ctions (CAUTIs) in oncology locations across facility types in the acute care hospitals

10%	15%	20%	25%	30%	35%	Percenti		ion of Faci Median 50%	lity-speci
0.000	0.000	0.000	0.283	0.360	0.427	0.505	0.548	0.610	0.667
0.000	0.000	0.000	0.284	0.360	0.422	0.505	0.549	0.610	0.667
0.000	0.000	0.000	0.000	0.304	0.454	0.554	0.623	0.694	0.768
0.000	0.000	0.000	0.000	0.301	0.455	0.539	0.621	0.691	0.788

fic SIRs ³							
60%	65%	70%	75%	80%	85%	90%	95%
0.737	0.794	0.853	0.952	1.027	1.095	1.311	1.642
0.740	0.797	0.865	0.952	1.025	1.092	1.285	1.629
0.879	0.921	1.065	1.228	1.386	1.552	1.771	2.037
0.882	0.921	1.043	1.224	1.387	1.553	1.772	2.038

HAI and Patient Population	No. of Pediatric Hospitals	
CAUTI, all ⁸	106 95	3,960,381 165,527
Laboratory-identified MRSA bacteremia, facility-wide9 Laboratory-identified C. difficile, facility-wide9	75 73	
COLO Colon surgery HYST Abdominal hysterectomy	4 0	

- 1. The number of reporting facilities from pediatric hospitals only included in the SIR calculation.
- 2. The number of device days included in the calculation of the SIR
- 4. Total inpatient admissions reported from all inpatient locations, excluding counts from CMS-certified rehabilitation
- 6. SSIs included are those classified as deep incisional or organ/space infections following inpatient procedures the
- 7. Percent of facilities with at least one predicted infection (event) that had an SIR significantly greater than or less
- 8. Facility-specific percentiles are only calculated if at least 20 facilities had ≥1.0 predicted HAI in 2020. If a facility's
- 9. Hospital-onset events are defined as those that were identified in an inpatient location on the 4th day (or later) at

			No. of Infection	ons (Events)
			Observed	Predicted
1,321,159			1,193	1,803.140
2,227,149			173	202.812
3,149,968	478,854	155	125	130.032
2,219,097	429,025	585	810	916.183

n and psychiatric locations. Admissions for C.difficile further excludes counts from NICUs and well-baby units.

at occurred in 2020 with a primary or other than primary skin closure technique, detected during the same adm than the nominal value of the national SIR for the given HAI type. This is only calculated if at least 10 facilities s predicted number of HAIs was <1.0, a facility-specific SIR was neither calculated nor included in the distribut fter admission to the facility.



Table 2f. National standardized infection ratios (SIRs) and facility-specific Central line-associated bloodstream infections (CLABSIs), catheter-assoc and Clostridioides difficile (C.difficile) and surgical site infection colon su

SIR	95% CI	for SIR Upper	No. Facilities with ≥1 Predicted Infection (Event)	Facility-spe No. Facilitie Significantly >	s with SIR	No. Facilitid Significantly <
0.662	0.625	0.700	80	5	6%	10
0.853	0.733	0.987	55	4	7%	2
0.961 0.884	0.804 0.825	1.141 0.947		5 8	11% 14%	2 11
						·

nission as the surgical procedure or upon readmission to the same facility. \Rightarrow had ≥ 1.0 predicted HAI in 2020.

tion of facility-specific SIRs.

summary SIRs using HAI data reported to NHSN during 2020 by Pediatric Hospitals, HAI, and patient stated urinary tract infections (CAUTIS), laboratory-identified methicillin-resistant Staphylococcus auringery and abdomenal hysterectomy

es with SIR < National SIR	5%	10%	15%	20%	25%	30%	35%	40%
13%	0.079	0.198	0.270	0.328	0.409	0.475	0.506	0.557
4%	0.000	0.000	0.000	0.000	0.225	0.403	0.422	0.497
5%	0.000	0.000	0.000	0.206	0.319	0.457	0.570	0.741
19%	0.000	0.000	0.073	0.222	0.322	0.450	0.598	0.629
								<u>.</u>

t population: eus (MRSA) bacteremia

45%	Median 50%	55%	60%	65%	70%	75%	80%	85%
0.599	0.660	0.700	0.726	0.773	0.825	0.876	0.948	1.099
0.685	0.791	0.873	0.978	1.049	1.076	1.171	1.209	1.895
0.779	0.854	0.943	0.987	1.140	1.201	1.436	1.589	2.066
0.714	0.747	0.777	0.805	0.835	0.939	0.994	1.156	1.205
								·

90%	95%
1.229 1.993	1.383 2.609
2.255 1.413	2.749 1.667

HAI and Patient Population	No. of Acute Care Hospitals Reporting from Pediatric Locations ¹
	600 329 589
	633 336 607

- 1. The number of reporting facilities included in the SIR calculation. Due to SIR exclusion criteria, this may
- 2. Percent of facilities with at least one predicted infection (event) that had an SIR significantly greater than
- 3. Facility-specific percentiles are only calculated if at least 20 facilities had ≥1.0 predicted HAI in 2020. If ε
- 4. Data from all ICUs, wards (and other non-critical care locations), and NICUs.
- 5. Data from all ICUs; excludes wards (and other non-critical care locations) and NICUs. For VAE, pediatric
- 6. Data from all wards (for this table wards also include step-down and specialty care areas [including hem

NOTE: Risk factors used in the calculation of the number of predicted device-associated infections are list

Total Patient Days	Total Device Days	No. of Infection	•		95% CI	
		Observed	Predicted	SIR	Lower	Upper
4,699,320	1,570,579	1,465	2,045.030	0.716	0.680	0.754
1,195,079	613,566	674	9,929.900	0.725	0.672	0.781
3,504,241	957,013	791	1,115.120	0.709	0.661	0.760
4,029,392	285,037	353	367.513	0.961	0.864	1.065
1,178,568	180,413	225	274.589	0.819	0.717	0.932
2,850,824	104,624	128	92.924	1.377	1.154	1.632

be different from the numbers shown in Table 1. These tables contain data from acute care hospitals; as so or less than the nominal value of the national SIR for the given HAI type. This is only calculated if at least facility's predicted number of HAIs was <1.0, a facility-specific SIR was neither calculated nor included in

c locations are excluded from SIR since pediatric and neonatal locations are excluded from VAE surveillane atology/oncology, bone marrow transplant]). For VAE, pediatric locations are excluded from SIR since pediatric locations are excluded from SIR since pediatric locations.

ed in Appendix A.

Table 2e. National standardized infection ratios (SIRs) and facility-specific summary SIRs using HA Central line-associated bloodstream infections (CLABSIs) and catheter-associated urinary tract infe

No. Facilities with ≥1 Predicted Infection (Event)	<u>Facility-speci</u> No. Facilities v Significantly > Na N	with SIR	No. Facilities wit Significantly < Nati N		5%
192	16	8%	5	3%	0.000
147	8	5%	3	2%	0.000
154	10	6%	5	3%	0.000
104	8	8%	4	4%	0.000
85	5	6%	3	4%	0.000
20	1	5%	0	0%	0.000

such, they exclude data from LTACHs, IRFs, and CAHs. t 10 facilities had ≥ 1.0 predicted HAI in 2020. the distribution of facility-specific SIRs.

ce.

diatric and neonatal locations are excluded from VAE surveillance.

I data reported to NHSN during 2020 by facility type, HAI, and patient population: ∋ctions (CAUTIs) in pediatric locations across facility types in the acute care hospitals

									Median	
	10%	15%	20%	25%	30%	35%	40%	45%	50%	55%
	0.023	0.270	0.315	0.379	0.433	0.500	0.566	0.609	0.651	0.700
	0.000	0.000	0.252	0.347	0.400	0.462	0.549	0.583	0.615	0.693
	0.000	0.098	0.270	0.341	0.414	0.479	0.527	0.604	0.659	0.733
	0.000	0.000	0.000	0.232	0.405	0.539	0.617	0.722	0.797	0.896
	0.000	0.000	0.000	0.000	0.236	0.360	0.394	0.469	0.689	0.813
_	0.000	0.000	0.000	0.000	0.462	0.569	0.592	0.813	0.883	0.919

60%	65%	70%	75%	80%	85%	90%	95%
0.750	0.834	0.901	0.979	1.074	1.269	1.452	1.699
0.757	0.829	0.879	0.983	1.053	1.162	1.377	1.754
0.787	0.868	0.933	1.049	1.151	1.319	1.507	1.939
0.987	1.109	1.197	1.336	1.690	1.922	2.362	2.763
0.891	1.036	1.185	1.387	1.658	1.844	2.129	2.804
0.954	0.975	1.057	1.472	1.601	2.209	2.688	2.788