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Illinois Statewide Report of Methicillin-resistant *Staphylococcus aureus* (MRSA) Bloodstream Infections in Acute Care Hospitals, NHSN Surveillance Reporting January 1, 2014 – December 31, 2014

As of January 1, 2012, all Illinois hospitals began mandated reporting of blood cultures positive for MRSA using the Center for Disease Control and Prevention's National Healthcare Safety Network (NHSN) Multidrug-Resistant Organism (MDRO) Laboratory-identified (LabID) Event module. (http://www.cdc.gov/nhsn/PDFs/pscManual/12pscMDRO_CDADcurrent.pdf)

NHSN reporting enables a facility to rely almost exclusively on data obtained from the laboratory and allows the calculation of proxy measures of MRSA bloodstream events, exposures and healthcare acquisition. This is the first annual Illinois Department of Public Health report for hospital-onset MRSA positive blood cultures, using data submitted by hospitals to NHSN expressed as Standardized Infection Ratio (SIR).

Standardized Infection Ratio

The standardized infection ratio (SIR) and corresponding 95% confidence intervals for each LabID event type is calculated for facilities reporting Healthcare Facility Onset (HO) Incidence Rate of MRSA data to NHSN. The SIRs use risk models to determine the predicted number of MRSA infections based on the baseline data (referent population, 2010-2011 Inpatient facility-wide NHSN surveillance data), adjusting for significant risk factors. A comparison of the actual number of HO incident cases with the predicted number of infections is the SIR for that hospital. Three factors were found to be significant in predicting HO MRSA bacteremia LabID incidence: medical school affiliation, facility bedsize, and CO MRSA bacteremia prevalence rate. This data represents reporting of MRSA infections in Acute Care Hospitals from January 1, 2014 to December 31, 2014.

Additional information regarding these output options and the risk models can be found at: <http://www.cdc.gov/nhsn/PDFs/mrsa-cdi/RiskAdjustment-MRSA-CDI.pdf>

Multi-Drug Resistant Organism (MDRO) Standardized Infection Ratio (SIR^a)
Reportable Period: January 1, 2014 - December 31, 2014
STATEWIDE

Hospital Name	Hospital City	Observed [O] Number of MRSA	Number of Patient Days	Statistically Expected [E] Number of MRSA ^b	Unit-Specific SIR ^c = O/E	95% Confidence Interval ^d		Statistical Interpretation
						Lower Bound ^e	Upper Bound	
Abraham Lincoln Memorial Hospital	Lincoln	0	4537	0.16	.	.	.	Not Available
Adventist Bolingbrook Hospital	Bolingbrook	0	20561	0.97	.	.	.	Not Available
Adventist Glenoaks Hospital	Glendale Heights	0	28655	1.40	0.00	.	2.14	Similar
Adventist Hinsdale Hospital	Hinsdale	1	59292	2.61	0.38	0.02	1.89	Similar
Adventist La Grange Memorial Hospital	La Grange	2	34386	2.25	0.89	0.15	2.94	Similar
Advocate Bromenn Medical Center	Normal	1	42307	1.65	0.61	0.03	2.99	Similar
Advocate Christ Hospital & Medical Center	Oak Lawn	10	215443	16.93	0.59	0.30	1.05	Similar
Advocate Condell Medical Center	Libertyville	1	81794	3.94	0.25	0.01	1.25	Similar
Advocate Eureka Hospital	Eureka	0	1682	0.06	.	.	.	Not Available
Advocate Good Samaritan Hospital	Downers Grove	3	80340	3.05	0.98	0.25	2.68	Similar
Advocate Good Shepherd Hospital	Barrington	4	45872	1.98	2.02	0.64	4.86	Similar
Advocate Illinois Masonic Medical Center	Chicago	4	78710	4.37	0.92	0.29	2.21	Similar
Advocate Lutheran General Hospital	Park Ridge	7	167202	10.06	0.70	0.30	1.38	Similar
Advocate Sherman Hospital	Elgin	1	63794	2.66	0.38	0.02	1.86	Similar
Advocate South Suburban Hospital	Hazel Crest	1	54056	2.30	0.43	0.02	2.14	Similar
Advocate Trinity Hospital	Chicago	0	44864	1.61	0.00	.	1.86	Similar
Alexian Brothers Medical Center	Elk Grove Village	2	83083	3.60	0.56	0.09	1.84	Similar
Alton Memorial Hospital	Alton	2	25678	1.31	1.53	0.26	5.05	Similar
Anderson Hospital	Maryville	1	30697	1.26	0.79	0.04	3.91	Similar
Ann & Robert H Lurie Children's Hospital of Chicago	Chicago	2	73835	3.80	0.53	0.09	1.74	Similar

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Blessing Hospital	Quincy	3	73057	3.09	0.97	0.25	2.64	Similar
CGH Medical Center	Sterling	1	15898	0.82	.	.	.	Not Available
Carle Foundation Hospital	Urbana	10	105909	10.57	0.95	0.48	1.69	Similar
Carle Hoopeston Regional Health Center	Hoopeston	0	1111	0.04	.	.	.	Not Available
Carlinville Area Hospital	Carlinville	0	1680	0.06	.	.	.	Not Available
Centegra Hospital	Woodstock	1	27840	1.40	0.72	0.04	3.53	Similar
Centegra Hospital	McHenry	1	45611	2.22	0.45	0.02	2.23	Similar
Clay County Hospital	Flora	0	3538	0.13	.	.	.	Not Available
Community First Medical Center	Chicago	2	50161	3.07	0.65	0.11	2.15	Similar
Community Memorial Hospital	Staunton	0	964	0.03	.	.	.	Not Available
Crawford Memorial Hospital	Robinson	0	3720	0.17	.	.	.	Not Available
Crossroads Community Hospital	Mount Vernon	0	3690	0.13	.	.	.	Not Available
Decatur Memorial Hospital	Decatur	5	39428	2.68	1.86	0.68	4.13	Similar
Dr. John Warner Hospital	Clinton	0	1016	0.04	.	.	.	Not Available
Edward Hospital	Naperville	7	100450	5.93	1.18	0.52	2.34	Similar
Elmhurst Memorial Hospital	Elmhurst	2	64549	2.86	0.70	0.12	2.31	Similar
FHN Memorial Hospital	Freeport	2	15991	0.61	.	.	.	Not Available
Fairfield Memorial Hospital	Fairfield	0	3439	0.12	.	.	.	Not Available
Fayette County Hospital	Vandalia	0	1718	0.06	.	.	.	Not Available
Ferrell Hospital	Eldorado	0	2316	0.25	.	.	.	Not Available

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Franciscan St. James Health	Chicago Heights	2	58944	4.07	0.49	0.08	1.62	Similar
Franciscan St. James Health	Olympia Fields	2	58944	4.07	0.49	0.08	1.62	Similar
Franklin Hospital	Benton	0	1469	0.12	.	.	.	Not Available
Galesburg Cottage Hospital	Galesburg	0	10767	0.62	.	.	.	Not Available
Gateway Regional Medical Center	Granite City	2	36330	1.71	1.17	0.20	3.86	Similar
Genesis Medical Center - Aledo	Aledo	0	1648	0.06	.	.	.	Not Available
Genesis Medical Center-Silvis	Silvis	0	13399	0.62	.	.	.	Not Available
Gibson Area Hospital & Health Services	Gibson City	0	2853	0.10	.	.	.	Not Available
Good Samaritan Regional Health Center	Mount Vernon	1	31243	1.73	0.58	0.03	2.86	Similar
Graham Hospital	Canton	1	12847	0.84	.	.	.	Not Available
Greenville Regional Hospital	Greenville	0	4754	0.17	.	.	.	Not Available
Hamilton Memorial Hospital District	Mcleansboro	0	3057	0.11	.	.	.	Not Available
Hammond-Henry Hospital	Geneseo	0	3571	0.13	.	.	.	Not Available
Hardin County General Hospital	Rosiclare	0	1506	0.14	.	.	.	Not Available
Harrisburg Medical Center	Harrisburg	0	6944	0.26	.	.	.	Not Available
Heartland Regional Medical Center	Marion	0	15429	0.55	.	.	.	Not Available
Herrin Hospital	Herrin	0	27779	1.10	0.00	.	2.73	Similar
Hillsboro Area Hospital	Hillsboro	0	2688	0.10	.	.	.	Not Available
Holy Cross Hospital	Chicago	0	66709	3.30	0.00	.	0.91	Lower
Hopedale Medical Complex	Hopedale	0	2915	0.10	.	.	.	Not Available

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Illini Community Hospital	Pittsfield	0	1166	0.04	.	.	.	Not Available
Illinois Valley Community Hospital	Peru	0	8191	0.35	.	.	.	Not Available
Ingalls Memorial Hospital	Harvey	7	72457	3.74	1.87	0.82	3.70	Similar
Iroquois Memorial Hospital & Resident Home	Watseka	0	2369	0.08	.	.	.	Not Available
Jackson Park Hospital	Chicago	2	34638	1.67	1.20	0.20	3.96	Similar
Jersey Community Hospital	Jerseyville	0	3390	0.20	.	.	.	Not Available
John H. Stroger, Jr. Hospital of Cook County	Chicago	8	105711	9.22	0.87	0.40	1.65	Similar
Katherine Shaw Bethea Hospital	Dixon	1	14976	0.82	.	.	.	Not Available
Kirby Medical Center	Monticello	0	2199	0.08	.	.	.	Not Available
Kishwaukee Hospital	DeKalb	1	21784	0.91	.	.	.	Not Available
Lawrence County Memorial Hospital	Lawrenceville	0	2613	0.15	.	.	.	Not Available
Little Company of Mary Hospital & Hc Centers	Evergreen Park	4	65092	3.49	1.15	0.36	2.76	Similar
Loretto Hospital	Chicago	0	18304	0.70	.	.	.	Not Available
Loyola Gottlieb Memorial Hospital	Melrose Park	0	37951	1.48	0.00	.	2.03	Similar
Loyola University Medical Center	Maywood	17	130783	13.46	1.26	0.76	1.98	Similar
Macneal Hospital	Berwyn	3	83137	4.14	0.73	0.18	1.97	Similar
Marshall Browning Hospital	Duquoin	0	1286	0.05	.	.	.	Not Available
Mason District Hospital	Havana	0	629	0.02	.	.	.	Not Available
Massac Memorial Hospital	Metropolis	1	4156	0.15	.	.	.	Not Available
Mcdonough District Hospital	Macomb	0	6322	0.42	.	.	.	Not Available

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Memorial Hospital	Belleville	3	72666	4.60	0.65	0.17	1.78	Similar
Memorial Hospital	Carthage	0	2756	0.10	.	.	.	Not Available
Memorial Hospital	Chester	0	2690	0.17	.	.	.	Not Available
Memorial Hospital of Carbondale	Carbondale	1	38400	1.86	0.54	0.03	2.66	Similar
Memorial Medical Center	Springfield	8	123943	14.91	0.54	0.25	1.02	Similar
Mercy Harvard Hospital	Harvard	0	1156	0.04	.	.	.	Not Available
Mercy Hospital & Medical Center	Chicago	2	64691	4.50	0.45	0.08	1.47	Similar
Methodist Hospital of Chicago	Chicago	0	23862	0.90	.	.	.	Not Available
Metrosouth Medical Center	Blue Island	1	35292	1.54	0.65	0.03	3.21	Similar
Midwest Medical Center	Galena	0	1474	0.05	.	.	.	Not Available
Morris Hospital & Healthcare Centers	Morris	0	15264	0.93	.	.	.	Not Available
Morrison Community Hospital	Morrison	0	2619	0.09	.	.	.	Not Available
Mount Sinai Hospital	Chicago	4	70690	4.29	0.93	0.30	2.25	Similar
Northshore University HS Evanston Hospital	Evanston	1	93043	4.83	0.21	0.01	1.02	Similar
Northshore University HS Glenbrook Hospital	Glenview	1	42734	1.67	0.60	0.03	2.95	Similar
Northshore University HS Highland Park Hospital	Highland Park	1	41272	1.58	0.63	0.03	3.12	Similar
Northshore University HS Skokie Hospital	Skokie	0	29384	1.78	0.00	.	1.68	Similar
Northwest Community Hospital	Arlington Heights	3	100620	6.81	0.44	0.11	1.20	Similar
Northwestern Medicine Central DuPage Hospital	Winfield	1	104637	4.18	0.24	0.01	1.18	Similar
Northwestern Medicine Delnor Hospital	Geneva	0	33349	1.33	0.00	.	2.26	Similar

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Northwestern Medicine Lake Forest Hospital	Lake Forest	1	46900	1.78	0.56	0.03	2.77	Similar
Northwestern Memorial Hospital	Chicago	20	263932	16.04	1.25	0.78	1.89	Similar
Norwegian-American Hospital	Chicago	6	39007	1.88	3.20	1.30	6.65	Higher
OSF Holy Family Medical Center	Monmouth	0	1709	0.06	.	.	.	Not Available
OSF Saint Anthony Medical Center	Rockford	5	48712	2.51	1.99	0.73	4.41	Similar
OSF Saint Anthony's Health Center	Alton	2	12094	1.12	1.78	0.30	5.88	Similar
OSF Saint Elizabeth Medical Center	Ottawa	0	14304	0.51	.	.	.	Not Available
OSF Saint Francis Medical Center	Peoria	5	178517	18.49	0.27	0.10	0.60	Lower
OSF Saint James-John W Albrecht Medical Center	Pontiac	0	4942	0.18	.	.	.	Not Available
OSF Saint Luke Medical Center	Kewanee	0	1996	0.13	.	.	.	Not Available
OSF Saint Paul Medical Center	Mendota	0	2873	0.10	.	.	.	Not Available
OSF St. Joseph Medical Center	Bloomington	2	25873	1.04	1.93	0.32	6.37	Similar
OSF St. Mary Medical Center	Galesburg	0	12728	0.52	.	.	.	Not Available
Palos Community Hospital	Palos Heights	5	87578	4.08	1.22	0.45	2.71	Similar
Pana Community Hospital	Pana	0	1134	0.04	.	.	.	Not Available
Paris Community Hospital	Paris	0	2386	0.09	.	.	.	Not Available
Passavant Area Hospital	Jacksonville	0	15183	0.89	.	.	.	Not Available
Pekin Hospital	Pekin	1	17498	0.75	.	.	.	Not Available
Perry Memorial Hospital	Princeton	0	2720	0.19	.	.	.	Not Available
Pinckneyville Community Hospital	Pinckneyville	0	1605	0.06	.	.	.	Not Available

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Presence Covenant Medical Center	Urbana	1	31644	2.41	0.42	0.02	2.05	Similar
Presence Mercy Medical Center	Aurora	0	51722	2.10	0.00	.	1.42	Similar
Presence Resurrection Medical Center	Chicago	3	74036	5.31	0.57	0.14	1.54	Similar
Presence Saint Francis Hospital	Evanston	1	40714	2.11	0.47	0.02	2.34	Similar
Presence Saint Joseph Hospital-Chicago	Chicago	3	64280	2.64	1.14	0.29	3.10	Similar
Presence Saint Joseph Hospital-Elgin	Elgin	2	43230	1.91	1.05	0.18	3.46	Similar
Presence Saint Joseph Medical Center	Joliet	6	108747	11.44	0.53	0.21	1.09	Similar
Presence Saints Mary And Elizabeth Medical Center	Chicago	2	116613	4.68	0.43	0.07	1.41	Similar
Presence St. Mary's Hospital	Kankakee	2	23350	1.33	1.50	0.25	4.96	Similar
Presence United Samaritans Medical Center	Danville	0	26464	1.33	0.00	.	2.25	Similar
Provident Hospital of Cook County	Chicago	0	46360	1.66	0.00	.	1.80	Similar
Red Bud Regional Hospital	Red Bud	0	4647	0.17	.	.	.	Not Available
Richland Memorial Hospital	Olney	0	18336	0.73	.	.	.	Not Available
Riverside Medical Center	Kankakee	0	58475	3.52	0.00	.	0.85	Lower
Rochelle Community Hospital	Rochelle	0	1948	0.07	.	.	.	Not Available
Rockford Memorial Hospital	Rockford	1	65764	2.91	0.34	0.02	1.70	Similar
Roseland Community Hospital	Chicago	0	19209	0.77	.	.	.	Not Available
Rush Oak Park Hospital	Oak Park	3	24143	1.64	1.83	0.47	4.98	Similar
Rush University Medical Center	Chicago	8	178175	15.00	0.53	0.25	1.01	Similar
Rush-Copley Medical Center	Aurora	1	57673	3.69	0.27	0.01	1.34	Similar

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Salem Township Hospital	Salem	0	2232	0.08	.	.	.	Not Available
Sarah Bush Lincoln Health Center	Mattoon	1	27761	1.30	0.77	0.04	3.80	Similar
Sarah D Culbertson Memorial Hospital	Rushville	0	1236	0.04	.	.	.	Not Available
Shelby Memorial Hospital	Shelbyville	1	2021	0.07	.	.	.	Not Available
Shriners Hospital For Children	Chicago	0	3144	0.16	.	.	.	Not Available
Silver Cross Hospital	New Lenox	1	81985	3.39	0.30	0.02	1.46	Similar
South Shore Hospital	Chicago	5	27556	1.92	2.60	0.95	5.77	Similar
Sparta Community Hospital	Sparta	0	2917	0.16	.	.	.	Not Available
St. Alexius Medical Center	Hoffman Estates	2	87819	3.61	0.55	0.09	1.83	Similar
St. Anthony Hospital	Chicago	2	30120	1.56	1.28	0.21	4.22	Similar
St. Anthony's Memorial Hospital	Effingham	2	22044	1.02	1.97	0.33	6.50	Similar
St. Bernard Hospital & Health Care Center	Chicago	2	39620	1.92	1.04	0.18	3.44	Similar
St. Elizabeth's Hospital	Belleville	3	53831	2.54	1.18	0.30	3.21	Similar
St. Francis Hospital	Litchfield	0	5361	0.19	.	.	.	Not Available
St. John's Hospital	Springfield	3	100875	9.82	0.31	0.08	0.83	Lower
St. Joseph Memorial Hospital	Murphysboro	0	4712	0.17	.	.	.	Not Available
St. Joseph's Hospital	Highland	0	5520	0.26	.	.	.	Not Available
St. Joseph's Hospital	Breese	0	4594	0.19	.	.	.	Not Available
St. Margaret's Health	Spring Valley	0	7233	0.26	.	.	.	Not Available
St. Mary's Hospital - Centralia	Centralia	0	19024	0.68	.	.	.	Not Available

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St. Mary's Hospital - Decatur	Decatur	0	43332	1.94	0.00	.	1.54	Similar
St. Mary's Hospital - Streator	Streator	0	6735	0.58	.	.	.	Not Available
Swedish Covenant Hospital	Chicago	1	77069	4.48	0.22	0.01	1.10	Similar
Swedishamerican Hospital	Rockford	1	67320	3.02	0.33	0.02	1.64	Similar
Taylorville Memorial Hospital	Taylorville	0	5286	0.40	.	.	.	Not Available
Thomas H Boyd Memorial Hospital	Carrollton	0	1384	0.05	.	.	.	Not Available
Thorek Hospital & Medical Center	Chicago	2	11332	0.58	.	.	.	Not Available
Touchette Regional Hospital	Centreville	0	20485	0.88	.	.	.	Not Available
Union County Hospital	Anna	1	3435	0.18	.	.	.	Not Available
UnityPoint Health - Proctor	Peoria	1	31551	1.36	0.74	0.04	3.63	Similar
UnityPoint Health - Methodist	Peoria	2	75571	3.37	0.59	0.10	1.96	Similar
UnityPoint Health - Trinity - Moline	Moline	0	8757	0.34	.	.	.	Not Available
UnityPoint Health - Trinity - Rock Island	Rock Island	3	68833	3.74	0.80	0.20	2.18	Similar
University of Chicago Medicine	Chicago	10	176765	18.33	0.55	0.28	0.97	Lower
University of Illinois Hospital & Health Sciences System	Chicago	9	119342	10.77	0.84	0.41	1.53	Similar
Valley West Hospital	Sandwich	0	2975	0.13	.	.	.	Not Available
Vista Medical Center East	Waukegan	7	46841	2.10	3.34	1.46	6.61	Higher
Vista Medical Center West	Waukegan	0	12664	0.45	.	.	.	Not Available
Wabash General Hospital	Mount Carmel	0	1853	0.12	.	.	.	Not Available
Washington County Hospital	Nashville	0	341	0.01	.	.	.	Not Available

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Weiss Memorial Hospital	Chicago	0	32960	1.57	0.00	.	1.91	Similar
West Suburban Medical Center	Oak Park	2	33492	3.69	0.54	0.09	1.79	Similar
Westlake Hospital	Melrose Park	3	32238	1.56	1.93	0.49	5.24	Similar

NHSN Data contained in this report were last generated on June 17, 2015

^a The Standardized Infection Ratio (SIR) is a summary measure used to compare the actual number of MDRO events reported with the standard population. It is the observed number of infections divided by the predicted number of infections.

^b Please note that the predicted number of infections does not mean that you expect to get an infection when you are hospitalized.

^c If the predicted number of infections is less than 1.00, the SIR is not calculated because it does not meet the minimum requirement for precision.

^d The 95% confidence interval for a hospital's standardized infection ratio (SIR) is the range of possible SIRs within which there is 95% confidence that the real SIR for that hospital lies.

If the number of observed infections is 0 and the number predicted is greater than or equal to 1.00, a 95% confidence interval is reported

^e The lower bound of the confidence interval is calculated only if the infection count is greater than 0.

Interpretation of the SIR:

- If the 95% confidence interval includes 1.00, the hospital's infection rate is similar (not significantly different) from expected (predicted)
- If the SIR is greater than 1.00 and the 95% confidence interval does not include 1.00, the hospital's infection rate is significantly higher than expected (predicted)
- If the SIR is less than 1.00 and the 95% confidence interval does not include 1.00, the hospital's infection rate is significantly lower than expected (predicted)

NOTE: All conclusions are based on the assumption that the hospital's patient population is similar to the referent population (NHSN 2010-2011 pooled patient population)