



Pat Quinn, Governor

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Illinois Statewide Central Line-associated Blood Stream Infection Report (CLABSI)

Neonatal and Pediatric Intensive Care

Health Care Associated Infections

Hospitals in Illinois are participating in programs to reduce the number of infections acquired during hospital stays. While it is difficult to reduce infections to zero, following specific protocols can greatly reduce the risk. The Hospital Report Card Act (Illinois Public Act 93-563) requires Illinois hospitals to report central line associated bloodstream infections (CLABSIs) occurring in critical care units, also known as intensive care units (ICUs). Comparison summary data for CLABSIs, expressed as a Standardized Infection Ratio (SIR^a), are presented by hospital for each of Neonatal (Level II/III, Level III) and Pediatric (Cardiothoracic, Medical/Surgical, Medical) ICU types. SIRs for NICUs have been adjusted for NHSN birth weight category. Interpretation of these summary measures is provided.

Central Line Associated Bloodstream Infection (CLABSI) Standardized Infection Ratio (SIR^a)

Reportable Period: January 1, 2011 - December 31, 2011

STATEWIDE

Location: Neonatal Intensive Care Unit - Level II/III

Hospital	City	Observed [O] Number of CLABSIs	Number of Central Line Days ^b	Statistically "Expected" [E] Number of CLABSIs ^c	Unit- Specific SIR ^d = O/E	90% Confidence Interval [CI] ^e		Statistical Interpretation
						Lower Bound ^f	Upper Bound	
ADVOCATE LUTHERAN GENERAL HOSPITAL	PARK RIDGE	3	4270	11.18	0.27	0.06	0.78	Lower
ADVOCATE GOOD SAMARITAN HOSPITAL	DOWNERS GROVE	3	549	1.12	2.67	0.55	7.8	Similar
ADVOCATE ILLINOIS MASONIC MEDICAL CENTER	CHICAGO	3	1838	4.9	0.61	0.13	1.79	Similar
EDWARD HOSPITAL	NAPERVILLE	1	893	2.51	0.4	0.01	2.22	Similar
LOYOLA UNIVERSITY MEDICAL CENTER	MAYWOOD	4	3256	8.46	0.47	0.13	1.21	Similar
MOUNT SINAI HOSPITAL	CHICAGO	2	2710	7	0.29	0.04	1.03	Similar
RUSH-COPLEY MEDICAL CENTER	AURORA	1	1009	2.98	0.34	0.01	1.87	Similar
NORTHWEST COMMUNITY HOSPITAL **	ARLINGTON HEIGHTS	0	730	1.09	0	-----	3.38	Similar
ST ALEXIUS MEDICAL CENTER**	HOFFMAN ESTATES	0	1176	2.75	0	-----	1.34	Similar
ALEXIAN BROTHERS MEDICAL CENTER **	ELK GROVE VILLAGE	0	236	0.32	-----			Not Available
LITTLE COMPANY OF MARY HOSPITAL & HC CENTERS**	EVERGREEN PARK	0	146	0.23	-----			Not Available
MEMORIAL HOSPITAL OF CARBONDALE**	CARBONDALE	0	92	0.13	-----			Not Available
NORTHWESTERN LAKE FOREST HOSPITAL**	LAKE FOREST	0	91	0.15	-----			Not Available
PROVENA SAINT JOSEPH MEDICAL CENTER**	JOLIET	0	120	0.18	-----			Not Available
RESURRECTION MEDICAL CENTER**	CHICAGO	0	54	0.07	-----			Not Available
SAINTS MARY AND ELIZABETH MEDICAL CENTER **	CHICAGO	0	67	0.08	-----			Not Available
SHERMAN HOSPITAL**	ELGIN	0	151	0.27	-----			Not Available

Central Line Associated Bloodstream Infection (CLABSI) Standardized Infection Ratio (SIR^a)

Reportable Period: January 1, 2011 - December 31, 2011

STATEWIDE

Location: Neonatal Intensive Care Unit - Level III

Hospital	City	Observed [O] Number of CLABSIs	Number of Central Line Days ^b	Statistically "Expected" [E] Number of CLABSIs ^c	Unit- Specific SIR ^d = O/E	90% Confidence Interval [CI] ^e		Statistical Interpretation
						Lower Bound ^f	Upper Bound	
ROCKFORD MEMORIAL HOSPITAL	ROCKFORD	2	3222	7.86	0.26	0.03	0.92	Lower
JOHN H STROGER JR HOSPITAL of COOK COUNTY	CHICAGO	2	4439	9.59	0.21	0.03	0.75	Lower
RUSH UNIVERSITY MEDICAL CENTER	CHICAGO	3	4599	11.29	0.27	0.06	0.78	Lower
ADVOCATE CHRIST HOSPITAL & MEDICAL CENTER	OAK LAWN	3	7544	17.24	0.17	0.04	0.51	Lower
UNIVERSITY OF CHICAGO MEDICAL CENTER	CHICAGO	8	6891	17.89	0.45	0.19	0.88	Lower
CARLE FOUNDATION HOSPITAL	URBANA	1	862	2.2	0.46	0.01	2.54	Similar
ADVENTIST HINSDALE HOSPITAL	HINSDALE	1	1125	2.72	0.37	0.01	2.05	Similar
NORTHWESTERN MEMORIAL HOSPITAL	CHICAGO	3	2370	5.99	0.5	0.1	1.46	Similar
NORTHSHORE UNIVERSITY HS EVANSTON HOSPITAL	EVANSTON	5	3406	8.85	0.56	0.18	1.32	Similar
ST JOHN'S HOSPITAL	SPRINGFIELD	6	1784	4.27	1.41	0.52	3.06	Similar
UNIVERSITY OF ILLINOIS MEDICAL CENTER AT CHICAGO	CHICAGO	9	3146	7.84	1.15	0.53	2.18	Similar
OSF SAINT FRANCIS MEDICAL CENTER	PEORIA	9	5317	12.14	0.74	0.34	1.41	Similar
CHILDREN'S MEMORIAL HOSPITAL	CHICAGO	9	5917	13.07	0.69	0.32	1.31	Similar
CENTRAL DUPAGE HOSPITAL **	WINFIELD	0	970	2.37	0	-----	1.56	Similar

Central Line Associated Bloodstream Infection (CLABSI) Standardized Infection Ratio (SIR^a)

Reportable Period: January 1, 2011 - December 31, 2011

STATEWIDE

Location: Pediatric Medical/Surgical Intensive Care Unit

Hospital	City	Observed [O] Number of CLABSIs	Number of Central Line Days ^b	Statistically "Expected" [E] Number of CLABSIs ^c	Unit- Specific SIR ^d = O/E	90% Confidence Interval [CI] ^e		Statistical Interpretation
						Lower Bound ^f	Upper Bound	
CHILDREN'S MEMORIAL HOSPITAL	CHICAGO	8	6481	19.44	0.41	0.18	0.81	Lower
OSF SAINT FRANCIS MEDICAL CENTER	PEORIA	3	3230	9.69	0.31	0.06	0.91	Lower
ADVOCATE LUTHERAN GENERAL HOSPITAL	PARK RIDGE	3	1405	4.21	0.71	0.15	2.08	Similar
LOYOLA UNIVERSITY MEDICAL CENTER	MAYWOOD	2	903	2.71	0.74	0.09	2.67	Similar
ROCKFORD MEMORIAL HOSPITAL	ROCKFORD	2	606	1.82	1.1	0.13	3.97	Similar
RUSH UNIVERSITY MEDICAL CENTER	CHICAGO	9	2450	7.35	1.22	0.56	2.32	Similar
ST JOHN'S HOSPITAL	SPRINGFIELD	2	456	1.37	1.46	0.18	5.28	Similar
UNIVERSITY OF CHICAGO MEDICAL CENTER	CHICAGO	4	2624	7.87	0.51	0.14	1.3	Similar
UNIVERSITY OF ILLINOIS MEDICAL CENTER AT CHICAGO	CHICAGO	3	1538	4.61	0.65	0.13	1.9	Similar
ADVENTIST HINSDALE HOSPITAL**	HINSDALE	0	63	0.19	-----			Not Available
CENTRAL DUPAGE HOSPITAL**	WINFIELD	0	236	0.71	-----			Not Available
JOHN H STROGER JR HOSPITAL OF COOK COUNTY**	CHICAGO	0	177	0.53	-----			Not Available
MOUNT SINAI HOSPITAL	CHICAGO	1	128	0.38	-----			Not Available
ST ALEXIUS MEDICAL CENTER**	HOFFMAN ESTATES	0	171	0.51	-----			Not Available

Central Line Associated Bloodstream Infection (CLABSI) Standardized Infection Ratio (SIR^a)

Reportable Period: January 1, 2011 - December 31, 2011

STATEWIDE

Location: Pediatric Medical Intensive Care Unit

Hospital	City	Observed [O] Number of CLABSIs	Number of Central Line Days ^b	Statistically "Expected" [E] Number of CLABSIs ^c	Unit- Specific SIR ^d = O/E	90% Confidence Interval [CI] ^e		Statistical Interpretation
						Lower Bound ^f	Upper Bound	
ADVOCATE CHRIST HOSPITAL & MEDICAL CENTER	OAK LAWN	3	1816	2.36	1.27	0.26	3.71	Similar

Location: Pediatric Cardiothoracic Intensive Care Unit

Hospital	City	Observed [O] Number of CLABSIs	Number of Central Line Days ^b	Statistically "Expected" [E] Number of CLABSIs ^c	Unit- Specific SIR ^d = O/E	90% Confidence Interval [CI] ^e		Statistical Interpretation
						Lower Bound ^f	Upper Bound	
ADVOCATE CHRIST HOSPITAL & MEDICAL CENTER	OAK LAWN	7	2384	7.87	0.89	0.36	1.83	Similar
UNIVERSITY OF CHICAGO MEDICAL CENTER **	CHICAGO	0	429	1.42	0	-----	2.61	Similar

Location: Pediatric Surgical Intensive Care Unit

Hospital	City	Observed [O] Number of CLABSIs	Number of Central Line Days ^b	Statistically "Expected" [E] Number of CLABSIs ^c	Unit- Specific SIR ^d = O/E	90% Confidence Interval [CI] ^e		Statistical Interpretation
						Lower Bound ^f	Upper Bound	
SHRINER'S HOSPITAL FOR CHILDREN **	CHICAGO	0	141	0	-----			Not Available

^a The Standardized Infection Ratio (SIR) is a summary measure used to compare the central line associated bloodstream infection (CLABSI) experience among a group of reported locations to that of a standard population. It is the observed number of infections divided by the expected number of infections.

^b Too few central line days. Reporting on too few procedures is a risk to patient confidentiality. If there are fifty (50) or fewer central line days, the report for the number of infections will be deferred until there are more central line days.

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

^d If the expected number of infections is < 1.0 , the SIR is not calculated because it does not meet the minimum requirement for precision.

^e The confidence interval for a hospital's standardized infection ratio (SIR) is the range of possible SIRs within which there is 90% confidence that the real SIR for that hospital lies, given the number of infections and procedures that were observed in that hospital in a specific time period. If the number of observed infections is > 15 , a 95% confidence interval is reported.

^f The lower bound of the confidence interval is calculated only if the infection count > 0 .

* Zero Infections, significantly better than expected.

** Zero Infections, but too few central line days to determine whether this is significantly better than expected.

Interpretation of the SIR: If the 90% confidence interval includes 1.0, the hospital's infection rate is similar (not significantly different) from "expected" (predicted). If the SIR is greater than 1.0 and the 90% confidence interval does not include 1.0, the hospital's infection rate is significantly higher than "expected" (predicted). If the SIR is less than 1.0 and the 90% confidence interval does not include 1.0, the hospital's infection rate is significantly lower than "expected" (predicted). All conclusions are based on the assumption that the hospital's patient population is similar to the NHSN pooled patient population.