



Pat Quinn, Governor
LaMar Hasbrouck, MD, MPH, Director

525-535 West Jefferson Street • Springfield, Illinois 62761-0001 • www.idph.state.il.us

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, and Surgical) 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, 2012 - December 31, 2012

STATEWIDE

Location: Neonatal Intensive Care Unit - Level II/III

Hospital	City	Observed [O] Number of CLABSIs	Number of Central Line Days ^b	Statistically "Predicted" [P] Number of CLABSIs ^c	Unit-Specific SIR ^d = O/P	95% Confidence Interval [CI] ^e		Statistical Interpretation
						Lower Bound ^f	Upper Bound	
ADVOCATE LUTHERAN GENERAL HOSPITAL	PARK RIDGE	2	4851	11.89	0.17	0.02	0.61	Lower
EDWARD HOSPITAL *	NAPERVILLE	0	1474	4.21	0	---	0.88	Lower
ADVOCATE ILLINOIS MASONIC MEDICAL CENTER	CHICAGO	2	1767	5.04	0.4	0.05	1.43	Similar
LOYOLA UNIVERSITY MEDICAL CENTER	Maywood	4	2925	8.76	0.46	0.12	1.17	Similar
MOUNT SINAI HOSPITAL	CHICAGO	3	1863	4.31	0.7	0.14	2.04	Similar
NORTHWEST COMMUNITY HOSPITAL	ARLINGTON HEIGHTS	3	757	1.69	1.78	0.37	5.19	Similar
ST ALEXIUS MEDICAL CENTER	HOFFMAN ESTATES	3	1565	3.49	0.86	0.18	2.51	Similar
ADVOCATE GOOD SAMARITAN HOSPITAL **	DOWNERS GROVE	0	566	1.39	0	---	2.65	Similar
RUSH-COPLEY MEDICAL CENTER **	AURORA	0	854	2.22	0	---	1.66	Similar
ALEXIAN BROTHERS MEDICAL CENTER **	ELK GROVE VILLAGE	0	198	0.3	---			SIR Not Available
LITTLE COMPANY OF MARY HOSPITAL & HC CENTERS	EVERGREEN PARK	0	47	0.05	---			SIR Not Available
MEMORIAL HOSPITAL OF CARBONDALE **	CARBONDALE	0	102	0.16	---			SIR Not Available
METROSOUTH MEDICAL CENTER **	BLUE ISLAND	0	56	0.07	---			SIR Not Available
NORTHWESTERN LAKE FOREST HOSPITAL **	LAKE FOREST	0	60	0.08	---			SIR Not Available
PRESENCE SAINT FRANCIS HOSPITAL **	EVANSTON	0	55	0.07	---			SIR Not Available
PRESENCE SAINT JOSEPH MEDICAL CENTER **	JOLIET	0	87	0.14	---			SIR Not Available
PRESENCE SAINTS MARY AND ELIZABETH MEDICAL CENTER **	CHICAGO	0	60	0.07	---			SIR Not Available
SHERMAN HOSPITAL **	ELGIN	0	55	0.09	---			SIR Not Available

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

Reportable Period: January 1, 2012 - December 31, 2012

STATEWIDE

Location: Neonatal Intensive Care Unit - Level III

Hospital	City	Observed [O] Number of CLABSIs	Number of Central Line Days ^b	Statistically "Predicted" [P] Number of CLABSIs ^c	Unit- Specific SIR ^d = O/P	95% Confidence Interval [CI] ^e		Statistical Interpretation
						Lower Bound ^f	Upper Bound	
ADVOCATE CHRIST HOSPITAL & MEDICAL CENTER	OAK LAWN	4	6872	15.31	0.26	0.07	0.67	Lower
ANN & ROBERT H LURIE CHILDREN'S HOSPITAL OF CHICAGO	CHICAGO	1	5794	8.83	0.11	0	0.63	Lower
JOHN H STROGER JR HOSPITAL OF COOK COUNTY	CHICAGO	1	3567	7.73	0.13	0	0.72	Lower
ROCKFORD MEMORIAL HOSPITAL	ROCKFORD	1	2825	6.59	0.15	0	0.85	Lower
RUSH UNIVERSITY MEDICAL CENTER	CHICAGO	6	5386	13.15	0.46	0.17	0.99	Lower
UNIVERSITY OF CHICAGO MEDICAL CENTER	CHICAGO	6	7117	15.92	0.38	0.14	0.82	Lower
ADVENTIST HINSDALE HOSPITAL	HINSDALE	2	782	1.84	1.09	0.13	3.94	Similar
CARLE FOUNDATION HOSPITAL	URBANA	1	877	2.19	0.46	0.01	2.55	Similar
NORTHSHORE UNIV HS EVANSTON HOSPITAL	EVANSTON	4	3239	8.48	0.47	0.13	1.21	Similar
NORTHWESTERN MEMORIAL HOSPITAL	CHICAGO	3	2613	6.56	0.46	0.09	1.34	Similar
OSF SAINT FRANCIS MEDICAL CENTER	PEORIA	4	4166	9.96	0.4	0.11	1.03	Similar
ST JOHN'S HOSPITAL	SPRINGFIELD	1	1265	2.98	0.34	0.01	1.87	Similar
CENTRAL DUPAGE HOSPITAL **	WINFIELD	0	794	1.9	0	---	1.94	Similar
UNIVERSITY OF ILLINOIS MEDICAL CENTER AT CHICAGO	CHICAGO	13	2750	6.78	1.92	1.02	3.28	Higher

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

Reportable Period: January 1, 2012 – December 31, 2012

STATEWIDE

Location: Pediatric Medical/Surgical Intensive Care Unit

Hospital	City	Observed [O] Number of CLABSIs	Number of Central Line Days ^b	Statistically "Predicted" [P] Number of CLABSIs ^c	Unit- Specific SIR ^d = O/P	95% Confidence Interval [CI] ^e		Statistical Interpretation
						Lower Bound ^f	Upper Bound	
OSF SAINT FRANCIS MEDICAL CENTER	PEORIA	2	3707	11.12	0.18	0.02	0.65	Lower
ANN & ROBERT H LURIE CHILDREN'S HOSPITAL OF CHICAGO	CHICAGO	5	5663	10.19	0.49	0.16	1.14	Similar
ADVOCATE LUTHERAN GENERAL HOSPITAL	PARK RIDGE	2	1232	3.7	0.54	0.07	1.96	Similar
ROCKFORD MEMORIAL HOSPITAL	ROCKFORD	1	393	1.18	0.85	0.02	4.73	Similar
RUSH UNIVERSITY MEDICAL CENTER	CHICAGO	3	1519	4.56	0.66	0.14	1.92	Similar
ST JOHN'S HOSPITAL	SPRINGFIELD	1	360	1.08	0.93	0.02	5.16	Similar
UNIVERSITY OF CHICAGO MEDICAL CENTER	CHICAGO	4	2548	7.64	0.52	0.14	1.34	Similar
UNIVERSITY OF ILLINOIS MEDICAL CENTER AT CHICAGO	CHICAGO	1	1164	3.49	0.29	0.01	1.6	Similar
LOYOLA UNIVERSITY MEDICAL CENTER **	MAYWOOD	0	1080	3.24	0	---	1.14	Similar
CENTRAL DUPAGE HOSPITAL **	WINFIELD	0	298	0.89	---			SIR Not Available
JOHN H STROGER JR HOSPITAL OF COOK COUNTY **	CHICAGO	0	197	0.59	---			SIR Not Available
MOUNT SINAI HOSPITAL **	CHICAGO	0	160	0.48	---			SIR Not Available
ST ALEXIUS MEDICAL CENTER **	HOFFMAN ESTATES	0	178	0.53	---			SIR Not Available

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

Reportable Period: January 1, 2012 – December 31, 2012

STATEWIDE

Location: Pediatric Medical Intensive Care Unit

Hospital	City	Observed [O] Number of CLABSIs	Number of Central Line Days ^b	Statistically "Predicted" [P] Number of CLABSIs ^c	Unit- Specific SIR ^d = O/P	95% Confidence Interval [CI] ^e		Statistical Interpretation
						Lower Bound ^f	Upper Bound	
ADVOCATE CHRIST HOSPITAL & MEDICAL CENTER	OAK LAWN	1	1891	2.46	0.41	0.01	2.27	Similar

Location: Pediatric Cardiothoracic Intensive Care Unit

Hospital	City	Observed [O] Number of CLABSIs	Number of Central Line Days ^b	Statistically "Predicted" [P] Number of CLABSIs ^c	Unit- Specific SIR ^d = O/P	95% Confidence Interval [CI] ^e		Statistical Interpretation
						Lower Bound ^f	Upper Bound	
ADVOCATE CHRIST HOSPITAL & MEDICAL CENTER [*]	OAK LAWN	0	1911	6.31	0	---	0.59	Lower
UNIVERSITY OF CHICAGO MEDICAL CENTER ^{**}	CHICAGO	0	374	1.23	0	---	2.99	Similar

Location: Pediatric Surgical Intensive Care Unit

Hospital	City	Observed [O] Number of CLABSIs	Number of Central Line Days ^b	Statistically "Predicted" [P] Number of CLABSIs ^c	Unit- Specific SIR ^d = O/P	95% Confidence Interval [CI] ^e		Statistical Interpretation
						Lower Bound ^f	Upper Bound	
SHRINER'S HOSPITAL FOR CHILDREN ^{**}	CHICAGO	0	150	0	-----			SIR 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 predicted 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 "predicted" number of infections does not mean that you expect to get an infection when you are hospitalized.

^d If the predicted number of infections is < 1.00 , 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 95% 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.

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

* Zero Infections, significantly better than predicted.

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

Interpretation of the SIR: If the 95% confidence interval includes 1.00, the hospital's infection rate is similar (not significantly different) from "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 "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 "predicted". All conclusions are based on the assumption that the hospital's patient population is similar to the NHSN pooled patient population.