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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), are presented by hospital for each of Pediatric (Cardiothoracic, Medical/Surgical, Medical) and Neonatal (Level II/III, Level II) 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)

Reportable Period: January 1, 2010 - June 30, 2010

Location: Neonatal Intensive Care Unit - Level II/III

STATEWIDE

Hospital	City	Observed (O) Number of CLABSIs	Number of Central Line Days ^b	Statistically "Expected" (E) Number of CLABSIs ^c	Unit-specific SIR=O/E	95% Confidence Interval (CI) ^d		Statistical Interpretation
						Lower Bound	Upper Bound	
EDWARD HOSPITAL	NAPERVILLE	0	289	0.83	0.00	0.00	0.85	Lower
MOUNT SINAI HOSPITAL	CHICAGO	0	709	1.60	0.00	0.00	0.44	Lower
ADVOCATE GOOD SAMARITAN HOSPITAL	DOWNERS GROVE	0	130	0.32	0.00	0.00	2.20	Similar
ADVOCATE ILLINOIS MASONIC MEDICAL CENTER	CHICAGO	3	534	1.62	1.85	0.37	5.40	Similar
ADVOCATE LUTHERAN GENERAL HOSPITAL	PARK RIDGE	6	2788	7.94	0.76	0.28	1.64	Similar
ALEXIAN BROTHERS MEDICAL CENTER	ELK GROVE VILLAGE	0	56	0.11	0.00	0.00	6.44	Similar
LOYOAL UNIVERSITY MEDICAL CENTER	MAYWOOD	8	1890	5.47	1.46	0.63	2.88	Similar
RUSH-COPLEY MEDICAL CENTER	AURORA	0	285	0.68	0.00	0.00	1.03	Similar
SHERMAN HOSPITAL	ELGIN	0	70	0.12	0.00	0.00	5.98	Similar
ST ALEXIUS MEDICAL CENTER	HOFFMAN ESTATES	0	126	0.20	0.00	0.00	3.56	Similar

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

Reportable Period: January 1, 2010 – June 30, 2010

Location: Neonatal Intensive Care Unit – Level III

STATEWIDE

Hospital	City	Observed (O) Number of CLABSIs	Number of Central Line Days ^b	Statistically "Expected" (E) Number of CLABSIs ^c	Unit-specific SIR=O/E	95% Confidence Interval (CI) ^d		Statistical Interpretation
						Lower Bound	Upper Bound	
ADVENTIST HINSDALE HOSPITAL	HINSDALE	0	381	1.11	0.00	0.00	0.63	Lower
ADVOCATE CHRIST HOSPITAL & MEDICAL CENTER	OAK LAWN	1	2416	6.78	0.15	0.00	0.82	Lower
JOHN H STROGER JR HOSPITAL OF COOK COUNTY	CHICAGO	0	1463	3.96	0.00	0.00	0.18	Lower
NORTHWESTERN MEMORIAL HOSPITAL	CHICAGO	0	1299	3.84	0.00	0.00	0.18	Lower
CENTRAL DUPAGE HOSPITAL	WINFIELD	0	206	0.66	0.00	0.00	1.06	Similar
CHILDREN'S MEMORIAL HOSPITAL	CHICAGO	2	2811	7.10	0.28	0.03	1.02	Similar
NORTHSHORE UNIV HS EVANSTON HOSPITAL	EVANSTON	2	968	3.11	0.64	0.07	2.32	Similar
OSF SAINT FRANCIS MEDICAL CENTER	PEORIA	2	1939	5.63	0.36	0.04	1.28	Similar
ROCKFORD MEMORIAL HOSPITAL	ROCKFORD	1	1557	4.58	0.22	0.00	1.21	Similar
RUSH UNIVERSITY MEDICAL CENTER	CHICAGO	14	2981	9.00	1.55	0.85	2.61	Similar
ST JOHN'S HOSPITAL	SPRINGFIELD	1	469	1.46	0.68	0.01	3.81	Similar
UNIVERSITY OF CHICAGO MEDICAL CENTER	CHICAGO	4	2997	8.24	0.49	0.13	1.24	Similar
UNIVERSITY OF ILLINOIS MEDICAL CENTER AT CHICAGO	CHICAGO	9	2160	6.26	1.44	0.66	2.73	Similar

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

Reportable Period: January 1, 2010 – June 30, 2010

Location: Pediatric Medical/Surgical Intensive Care Unit

Statewide

Hospital	City	Observed (O) Number of CLABSIs	Number of Central Line Days ^b	Statistically "Expected" (E) Number of CLABSIs ^c	Unit-specific SIR=O/E	95% Confidence Interval (CI) ^d		Statistical Interpretation
						Lower Bound	Upper Bound	
CHILDREN'S MEMORIAL HOSPITAL	CHICAGO	1	4291	12.87	0.08	0.00	0.43	Lower
UNIVERSITY OF CHICAGO MEDICAL CENTER	CHICAGO	0	1248	3.74	0.00	0.00	0.19	Lower
ADVOCATE LUTHERAN GENERAL HOSPITAL	PARK RIDGE	2	710	2.13	0.94	0.11	3.39	Similar
CENTRAL DUPAGE HOSPITAL	WINFIELD	0	152	0.46	0.00	0.00	1.54	Similar
JOHN H STROGER JR HOSPITAL OF COOK COUNTY	CHICAGO	0	84	0.25	0.00	0.00	2.79	Similar
LOYOLA UNIVERSITY MEDICAL CENTER	MAYWOOD	3	494	1.48	2.02	0.41	5.91	Similar
MOUNT SINAI HOSPITAL	CHICAGO	1	100	0.30	3.33	0.04	18.55	Similar
OSF SAINT FRANCIS MEDICAL CENTER	PEORIA	1	1233	3.70	0.27	0.00	1.50	Similar
ROCKFORD MEMORIAL HOSPITAL	ROCKFORD	1	257	0.77	1.30	0.02	7.22	Similar
RUSH UNIVERSITY MEDICAL CENTER	CHICAGO	4	1071	3.21	1.24	0.33	3.19	Similar
ST JOHN'S HOSPITAL	SPRINGFIELD	3	289	0.87	3.46	0.70	10.11	Similar
UNIVERSITY OF ILLINOIS MEDICAL CENTER AT CHICAGO	CHICAGO	1	735	2.21	0.45	0.01	2.52	Similar

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

Reportable Period: January 1, 2010 – June 30, 2010

Location: Pediatric Medical Intensive Care Unit

Statewide

Hospital	City	Observed (O) Number of CLABSIs	Number of Central Line Days ^b	Statistically "Expected" (E) Number of CLABSIs ^c	Unit-specific SIR=O/E	95% Confidence Interval (CI) ^d		Statistical Interpretation
						Lower Bound	Upper Bound	
ADVOCATE CHRIST HOSPITAL & MEDICAL CENTER	OAK LAWN	3	1230	1.60	1.88	0.38	5.48	Similar

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

Reportable Period: January 1, 2010 – June 30, 2010

Location: Pediatric Cardiothoracic Intensive Care Unit

Statewide

Hospital	City	Observed (O) Number of CLABSIs	Number of Central Line Days ^b	Statistically "Expected" (E) Number of CLABSIs ^c	Unit-specific SIR=O/E	95% Confidence Interval (CI) ^d		Statistical Interpretation
						Lower Bound	Upper Bound	
ADVOCATE CHRIST HOSPITAL & MEDICAL CENTER	OAK LAWN	5	1187	3.92	1.28	0.41	2.98	Similar
UNIVERSITY OF CHICAGO MEDICAL CENTER	CHICAGO	0	209	0.69	0.00	0.00	1.02	Similar

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