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## **Illinois Statewide Surgical Site Infections Report (SSI)**

### **Coronary Artery Bypass Graft Surgery (CABG) 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 surgical site infections occurring following coronary artery bypass graft surgery (CABG) or knee arthroplasty (KPRO). Comparison summary data for SSIs, expressed as a Standardized Infection Ratio (SIR), are presented by hospital for CABG and KPRO surgery, respectively. Interpretation of these summary measures is provided.

Surgical Site Infection (SSI) Standardized Infection Ratio (SIR<sup>a</sup>)  
 Reportable Period: July 1, 2013 - June 30, 2014  
 Coronary Artery Bypass Graft Surgery (CABG)  
 STATEWIDE

Hospital Name	Hospital City	Observed [O] Number of CBGB <sup>b</sup>	Number of CBGB Performed <sup>c</sup>	Statistically 'Expected' [E] Number of CBGB <sup>d</sup>	Hospital-specific SIR <sup>e</sup> = O/E	95% Confidence Interval <sup>f</sup>		Statistical Interpretation
						Lower Bound <sup>g</sup>	Upper Bound	
Adventist Hinsdale Hospital	Hinsdale	0	66	0.81	.	.	.	Not Available
Adventist La Grange Memorial Hospital	La Grange	0	36	0.47	.	.	.	Not Available
Advocate Bromenn Medical Center	Normal	0	36	0.38	.	.	.	Not Available
Advocate Christ Hospital & Medical Center	Oak Lawn	4	405	5.27	0.76	0.24	1.83	Similar
Advocate Condell Medical Center **	Libertyville	0	154	2.02	0.00	.	1.48	Similar
Advocate Good Samaritan Hospital	Downers Grove	1	145	1.61	0.62	0.03	3.07	Similar
Advocate Good Shepherd Hospital **	Barrington	0	121	1.24	0.00	.	2.41	Similar
Advocate Illinois Masonic Medical Center	Chicago	0	69	0.82	.	.	.	Not Available
Advocate Lutheran General Hospital **	Park Ridge	0	132	1.38	0.00	.	2.17	Similar
Advocate Sherman Hospital **	Elgin	0	122	1.26	0.00	.	2.37	Similar
Alexian Brothers Medical Center **	Elk Grove Village	0	158	1.69	0.00	.	1.77	Similar
Blessing Hospital **	Quincy	0	84	1.10	0.00	.	2.72	Similar
Carle Foundation Hospital	Urbana	2	216	2.76	0.72	0.12	2.39	Similar
Centegra Hospital	Mchenry	1	122	1.74	0.58	0.03	2.84	Similar
Central DuPage Hospital **	Winfield	0	160	1.87	0.00	.	1.60	Similar
Decatur Memorial Hospital	Decatur	0	52	0.65	.	.	.	Not Available
Edward Hospital **	Naperville	0	189	1.88	0.00	.	1.59	Similar
Elmhurst Memorial Hospital	Elmhurst	0	43	0.73	.	.	.	Not Available
Franciscan St. James Health	Chicago Heights	0	60	0.79	.	.	.	Not Available
Good Samaritan Regional Health Center	Mount Vernon	1	92	1.55	0.64	0.03	3.17	Similar

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Heartland Regional Medical Center *	Marion	.	.	.	.	.	.	Not Available
Ingalls Memorial Hospital	Harvey	0	24	0.33	.	.	.	Not Available
John H. Stroger, Jr. Hospital of Cook County **	Chicago	0	76	1.15	0.00	.	2.60	Similar
Loyola Gottlieb Memorial Hospital	Melrose Park	1	63	0.58	.	.	.	Not Available
Loyola University Medical Center	Maywood	2	297	5.43	0.37	0.06	1.22	Similar
Memorial Hospital **	Belleville	0	141	1.95	0.00	.	1.53	Similar
Memorial Hospital of Carbondale **	Carbondale	0	159	2.17	0.00	.	1.38	Similar
Memorial Medical Center	Springfield	3	195	2.53	1.19	0.30	3.23	Similar
Mercy Hospital & Medical Center	Chicago	1	38	0.50	.	.	.	Not Available
MetroSouth Medical Center	Blue Island	0	28	0.35	.	.	.	Not Available
Mount Sinai Hospital	Chicago	1	24	0.40	.	.	.	Not Available
NorthShore University HS - Evanston Hospital	Evanston	1	150	2.35	0.43	0.02	2.10	Similar
NorthShore University HS - Glenbrook Hospital *	Glenview	.	.	.	.	.	.	Not Available
NorthShore University HS - Highland Park Hospital	Highland Park	0	73	0.77	.	.	.	Not Available
Northwest Community Hospital	Arlington Heights	1	135	1.30	0.77	0.04	3.80	Similar
Northwestern Memorial Hospital	Chicago	1	252	3.71	0.27	0.01	1.33	Similar
OSF Saint Anthony Medical Center	Rockford	4	150	1.81	2.21	0.70	5.34	Similar
OSF Saint Francis Medical Center	Peoria	0	192	3.44	0.00	.	0.87	Lower
OSF St. Joseph Medical Center	Bloomington	0	58	0.58	.	.	.	Not Available
Palos Community Hospital **	Palos Heights	0	172	1.82	0.00	.	1.65	Similar

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Presence Covenant Medical Center	Urbana	0	79	0.92	.	.	.	Not Available
Presence Mercy Medical Center **	Aurora	0	138	1.55	0.00	.	1.93	Similar
Presence Resurrection Medical Center **	Chicago	0	162	1.94	0.00	.	1.54	Similar
Presence Saint Francis Hospital	Evanston	0	40	0.48	.	.	.	Not Available
Presence Saint Joseph Hospital-Chicago	Chicago	0	38	0.39	.	.	.	Not Available
Presence Saint Joseph Hospital-Elgin	Elgin	0	50	0.63	.	.	.	Not Available
Presence Saint Joseph Medical Center	Joliet	2	196	2.55	0.78	0.13	2.59	Similar
Presence Saints Mary And Elizabeth Medical Center	Chicago	0	27	0.43	.	.	.	Not Available
Riverside Medical Center **	Kankakee	0	130	1.57	0.00	.	1.91	Similar
Rockford Memorial Hospital	Rockford	0	58	0.66	.	.	.	Not Available
Rush University Medical Center	Chicago	1	117	2.05	0.49	0.02	2.40	Similar
Rush-Copley Medical Center **	Aurora	0	84	1.49	0.00	.	2.02	Similar
St. Elizabeth's Hospital	Belleville	1	130	1.95	0.51	0.03	2.53	Similar
St. John's Hospital	Springfield	1	338	4.78	0.21	0.01	1.03	Similar
Swedish American Hospital **	Rockford	0	120	1.51	0.00	.	1.98	Similar
Swedish Covenant Hospital	Chicago	1	104	1.80	0.56	0.03	2.74	Similar
UnityPoint Health-Proctor *	Peoria	.	.	.	.	.	.	Not Available
UnityPoint Health - Methodist	Peoria	0	63	0.94	.	.	.	Not Available
UnityPoint Health - Trinity - Rock Island	Rock Island	1	170	2.13	0.47	0.02	2.31	Similar
University of Chicago Medical Center **	Chicago	0	149	2.17	0.00	.	1.38	Similar

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University of Illinois Medical Center at Chicago	Chicago	0	32	0.41	.	.	.	Not Available
Vanguard MacNeal Hospital **	Berwyn	0	59	1.34	0.00	.	2.24	Similar
Vanguard Weiss Memorial Hospital *	Chicago	.	.	.	.	.	.	Not Available
Vanguard West Suburban Medical Center	Oak Park	0	24	0.45	.	.	.	Not Available
Vista Medical Center East	Waukegan	0	72	0.78	.	.	.	Not Available

\* Hospital with 20 or fewer procedures performed.

\*\* Hospital reported zero infections; however, the number of reported events is not significantly different than predicted.

Data contained in this report were last generated on December 29, 2014.

<sup>a</sup> The Standardized Infection Ratio (SIR) is a summary measure used to compare the SSI experience amongst patients undergoing a specific procedure in a given hospital to that of a standard population. It is the observed number of infections divided by the expected number of infections.

<sup>b</sup> Excludes Superficial Incisional Secondary (SIS) and Deep Incisional Secondary (DIS) SSIs.

<sup>c</sup> Reporting on too few procedures is a risk to patient confidentiality. If there are twenty (20) or fewer procedures performed, the report for the number of infections will be deferred until there are more procedures performed.

<sup>d</sup> Please note that the 'expected' number of infections does not mean that you expect to get an infection when you are undergo a surgical procedure.

<sup>e</sup> If the 'expected' number of infections is < 1.0, the SIR is not calculated because it does not meet the minimum requirement for precision.

<sup>f</sup> 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.

<sup>g</sup> The lower bound of the confidence interval is calculated only if the infection count > 0.

Interpretation of the SIR:

- All conclusions are based on the assumption that the hospital's surgical population is similar to the NHSN pooled patient population.
- If the 95% confidence interval includes 1.0, the hospital's infection rate is similar (not significantly different) from '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 '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 'predicted'.