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

### **Knee Arthroplasty (KPRO) 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 (CABGS) or knee arthroplasty (KPRO). Comparison summary data for SSI, 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  
 Knee Arthroplasty (KPRO)  
 STATEWIDE

Hospital Name	Hospital City	Observed [O] Number of KPRO <sup>b</sup>	Number of KPRO Performed <sup>c</sup>	Statistically 'Expected' [E] Number of KPRO <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	
Abraham Lincoln Memorial Hospital	Lincoln	0	47	0.23	.	.	.	Not Available
Adventist Bolingbrook Hospital	Bolingbrook	0	43	0.25	.	.	.	Not Available
Adventist Glenoaks Hospital	Glendale Hts	0	83	0.50	.	.	.	Not Available
Adventist Hinsdale Hospital	Hinsdale	0	495	3.64	0.00	.	0.82	Lower
Adventist La Grange Memorial Hospital	La Grange	1	202	1.36	0.73	0.04	3.62	Similar
Advocate Bromenn Medical Center	Normal	0	462	3.26	0.00	.	0.92	Lower
Advocate Christ Hospital & Medical Center	Oak Lawn	3	655	5.06	0.59	0.15	1.61	Similar
Advocate Condell Medical Center	Libertyville	1	175	1.59	0.63	0.03	3.11	Similar
Advocate Good Samaritan Hospital	Downers Grove	1	335	2.13	0.47	0.02	2.32	Similar
Advocate Good Shepherd Hospital **	Barrington	0	259	1.42	0.00	.	2.11	Similar
Advocate Illinois Masonic Medical Center	Chicago	2	209	1.64	1.22	0.20	4.03	Similar
Advocate Lutheran General Hospital	Park Ridge	2	901	5.66	0.35	0.06	1.17	Similar
Advocate Sherman Hospital **	Elgin	0	315	1.85	0.00	.	1.62	Similar
Advocate South Suburban Hospital **	Hazel Crest	0	174	1.06	0.00	.	2.84	Similar
Advocate Trinity Hospital	Chicago	0	71	0.39	.	.	.	Not Available
Alexian Brothers Medical Center	Elk Grove Village	2	489	3.00	0.67	0.11	2.20	Similar
Alton Memorial Hospital	Alton	1	183	1.24	0.81	0.04	3.97	Similar
Anderson Hospital **	Maryville	0	197	1.05	0.00	.	2.86	Similar
Blessing Hospital	Quincy	1	130	0.88	.	.	.	Not Available

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CGH Medical Center	Sterling	0	138	0.62	.	.	.	Not Available
Carle Foundation Hospital	Urbana	2	475	3.16	0.63	0.11	2.09	Similar
Centegra Hospital	Woodstock	1	242	1.27	0.79	0.04	3.90	Similar
Centegra Hospital **	Mchenry	0	205	1.26	0.00	.	2.38	Similar
Central DuPage Hospital	Winfield	1	1122	7.00	0.14	0.01	0.70	Lower
Crawford Memorial Hospital	Robinson	0	23	0.11	.	.	.	Not Available
Crossroads Community Hospital	Mount Vernon	0	91	0.49	.	.	.	Not Available
Decatur Memorial Hospital	Decatur	3	412	2.79	1.08	0.27	2.93	Similar
Delnor Hospital	Geneva	3	225	1.06	2.83	0.72	7.69	Similar
Edward Hospital	Naperville	1	581	3.03	0.33	0.02	1.63	Similar
Elmhurst Memorial Hospital	Elmhurst	2	395	2.74	0.73	0.12	2.41	Similar
FHN Memorial Hospital	Freeport	0	134	0.63	.	.	.	Not Available
Fayette County Hospital *	Vandalia	.	.	.	.	.	.	Not Available
Franciscan St. James Health	Chicago Heights	1	131	1.19	0.84	0.04	4.14	Similar
Galesburg Cottage Hospital	Galesburg	0	67	0.46	.	.	.	Not Available
Gateway Regional Medical Center **	Granite City	0	166	1.12	0.00	.	2.68	Similar
Genesis Medical Center-Silvis	Silvis	0	104	0.56	.	.	.	Not Available
Gibson Area Hospital & Health Services	Gibson City	2	109	0.59	.	.	.	Not Available
Good Samaritan Regional Health Center	Mount Vernon	1	159	0.78	.	.	.	Not Available
Graham Hospital	Canton	0	52	0.29	.	.	.	Not Available

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Hammond-Henry Hospital	Geneseo	0	80	0.39	.	.	.	Not Available
Heartland Regional Medical Center	Marion	0	121	0.76	.	.	.	Not Available
Herrin Hospital **	Herrin	0	298	1.57	0.00	.	1.91	Similar
Holy Cross Hospital	Chicago	0	47	0.35	.	.	.	Not Available
Hoopeston Community Memorial Hospital *	Hoopeston	.	.	.	.	.	.	Not Available
Hopedale Medical Complex *	Hopedale	.	.	.	.	.	.	Not Available
Illinois Valley Community Hospital	Peru	0	167	0.84	.	.	.	Not Available
Ingalls Memorial Hospital **	Harvey	0	445	2.35	0.00	.	1.28	Similar
Iroquois Memorial Hospital & Resident Home	Watseka	0	27	0.13	.	.	.	Not Available
John H. Stroger, Jr. Hospital of Cook County *	Chicago	.	.	.	.	.	.	Not Available
Katherine Shaw Bethea Hospital	Dixon	0	54	0.27	.	.	.	Not Available
Kishwaukee Hospital	De Kalb	0	182	0.85	.	.	.	Not Available
Little Company of Mary Hospital & Hc Centers	Evergreen Park	1	100	0.90	.	.	.	Not Available
Loyola Gottlieb Memorial Hospital **	Melrose Park	0	247	1.84	0.00	.	1.63	Similar
Loyola University Medical Center	Maywood	1	202	1.95	0.51	0.03	2.53	Similar
McDonough District Hospital	Macomb	1	25	0.13	.	.	.	Not Available
Memorial Hospital **	Belleville	0	398	2.50	0.00	.	1.20	Similar
Memorial Hospital *	Carthage	.	.	.	.	.	.	Not Available
Memorial Hospital	Chester	0	22	0.10	.	.	.	Not Available
Memorial Hospital of Carbondale **	Carbondale	0	347	2.04	0.00	.	1.47	Similar

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Memorial Medical Center	Springfield	4	797	5.23	0.76	0.24	1.84	Similar
Mendota Community Hospital *	Mendota	.	.	.	.	.	.	Not Available
Mercy Harvard Hospital *	Harvard	.	.	.	.	.	.	Not Available
Mercy Hospital & Medical Center	Chicago	0	78	0.55	.	.	.	Not Available
MetroSouth Medical Center	Blue Island	0	91	0.75	.	.	.	Not Available
Morris Hospital & Healthcare Centers	Morris	0	109	0.47	.	.	.	Not Available
NorthShore University HS - Glenbrook Hospital **	Glenview	0	566	2.99	0.00	.	1.00	Similar
NorthShore University HS - Highland Park Hospital	Highland Park	1	132	0.68	.	.	.	Not Available
NorthShore University HS - Skokie Hospital	Skokie	2	766	3.64	0.55	0.09	1.82	Similar
Northwest Community Hospital	Arlington Heights	2	503	3.60	0.56	0.09	1.84	Similar
Northwestern Lake Forest Hospital **	Lake Forest	0	402	2.10	0.00	.	1.42	Similar
Northwestern Memorial Hospital	Chicago	1	642	4.52	0.22	0.01	1.09	Similar
Norwegian-American Hospital *	Chicago	.	.	.	.	.	.	Not Available
OSF Holy Family Medical Center *	Monmouth	.	.	.	.	.	.	Not Available
OSF Saint Anthony Medical Center	Rockford	1	404	2.41	0.41	0.02	2.04	Similar
OSF Saint Elizabeth Medical Center	Ottawa	0	24	0.13	.	.	.	Not Available
OSF Saint Francis Medical Center	Peoria	0	508	3.48	0.00	.	0.86	Lower
OSF Saint James-John W Albrecht Medical Center	Pontiac	0	69	0.35	.	.	.	Not Available
OSF Saint Luke Medical Center *	Kewanee	.	.	.	.	.	.	Not Available
OSF St. Joseph Medical Center	Bloomington	2	205	0.91	.	.	.	Not Available

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OSF St. Mary Medical Center	Galesburg	0	100	0.54	.	.	.	Not Available
Palos Community Hospital **	Palos Heights	0	384	2.26	0.00	.	1.32	Similar
Paris Community Hospital	Paris	0	41	0.25	.	.	.	Not Available
Passavant Area Hospital	Jacksonville	0	158	0.75	.	.	.	Not Available
Pekin Hospital	Pekin	0	152	1.00	.	.	.	Not Available
Presence Covenant Medical Center	Urbana	2	144	0.93	.	.	.	Not Available
Presence Mercy Medical Center	Aurora	1	113	0.55	.	.	.	Not Available
Presence Our Lady of The Resurrection Medical Center	Chicago	0	34	0.16	.	.	.	Not Available
Presence Resurrection Medical Center **	Chicago	0	192	1.17	0.00	.	2.56	Similar
Presence Saint Francis Hospital **	Evanston	0	146	1.12	0.00	.	2.67	Similar
Presence Saint Joseph Hospital-Chicago	Chicago	0	102	0.69	.	.	.	Not Available
Presence Saint Joseph Hospital-Elgin	Elgin	0	168	0.92	.	.	.	Not Available
Presence Saint Joseph Medical Center	Joliet	4	346	2.29	1.75	0.56	4.21	Similar
Presence Saints Mary And Elizabeth Medical Center **	Chicago	0	148	1.12	0.00	.	2.69	Similar
Presence St. Marys Hospital	Kankakee	0	113	0.65	.	.	.	Not Available
Presence United Samaritans Medical Center	Danville	0	34	0.16	.	.	.	Not Available
Richland Memorial Hospital *	Olney	.	.	.	.	.	.	Not Available
Riverside Medical Center	Kankakee	1	406	2.86	0.35	0.02	1.72	Similar
Rochelle Community Hospital *	Rochelle	.	.	.	.	.	.	Not Available
Rockford Memorial Hospital	Rockford	4	256	1.54	2.60	0.83	6.28	Similar

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Rush Oak Park Hospital	Oak Park	1	70	0.43	.	.	.	Not Available
Rush University Medical Center	Chicago	9	1230	8.40	1.07	0.52	1.97	Similar
Rush-Copley Medical Center **	Aurora	0	333	2.81	0.00	.	1.07	Similar
Saint Anthony's Health Center	Alton	1	36	0.26	.	.	.	Not Available
Salem Township Hospital *	Salem	.	.	.	.	.	.	Not Available
Sarah Bush Lincoln Health Center	Mattoon	2	305	2.13	0.94	0.16	3.10	Similar
Silver Cross Hospital **	New Lenox	0	243	1.40	0.00	.	2.15	Similar
Sparta Community Hospital *	Sparta	.	.	.	.	.	.	Not Available
St. Alexius Medical Center	Hoffman Estates	2	383	2.30	0.87	0.15	2.87	Similar
St. Anthony Hospital	Chicago	0	37	0.28	.	.	.	Not Available
St. Anthony's Memorial Hospital	Effingham	1	520	2.73	0.37	0.02	1.80	Similar
St. Elizabeth's Hospital	Belleville	1	138	1.16	0.86	0.04	4.26	Similar
St. Francis Hospital *	Litchfield	.	.	.	.	.	.	Not Available
St. John's Hospital	Springfield	1	453	3.54	0.28	0.01	1.39	Similar
St. Joseph's Hospital	Highland	0	50	0.24	.	.	.	Not Available
St. Joseph's Hospital *	Breese	.	.	.	.	.	.	Not Available
St. Margaret's Health	Spring Valley	0	161	0.69	.	.	.	Not Available
St. Mary's Hospital - Centralia	Centralia	0	32	0.20	.	.	.	Not Available
St. Mary's Hospital - Decatur	Decatur	1	156	1.06	0.95	0.05	4.68	Similar
St. Mary's Hospital - Streator *	Streator	.	.	.	.	.	.	Not Available

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Swedish American Hospital	Rockford	1	385	2.84	0.35	0.02	1.74	Similar
Swedish Covenant Hospital	Chicago	1	119	0.96	.	.	.	Not Available
Taylorville Memorial Hospital *	Taylorville	.	.	.	.	.	.	Not Available
Thorek Hospital & Medical Center *	Chicago	.	.	.	.	.	.	Not Available
Touchette Regional Hospital *	Centreville	.	.	.	.	.	.	Not Available
UnityPoint Health-Proctor	Peoria	1	410	2.16	0.46	0.02	2.29	Similar
UnityPoint Health - Methodist	Peoria	2	291	1.80	1.11	0.19	3.67	Similar
UnityPoint Health - Trinity - Rock Island	Rock Island	2	334	2.01	0.99	0.17	3.28	Similar
University of Chicago Medical Center **	Chicago	0	226	2.01	0.00	.	1.49	Similar
University of Illinois Medical Center at Chicago	Chicago	3	125	1.60	1.88	0.48	5.10	Similar
Valley West Hospital *	Sandwich	.	.	.	.	.	.	Not Available
Vanguard MacNeal Hospital **	Berwyn	0	259	2.22	0.00	.	1.35	Similar
Vanguard Weiss Memorial Hospital	Chicago	3	212	1.74	1.72	0.44	4.68	Similar
Vanguard West Suburban Medical Center	Oak Park	0	69	0.44	.	.	.	Not Available
Vanguard Westlake Hospital	Melrose Park	0	21	0.14	.	.	.	Not Available
Vista Medical Center East	Waukegan	2	106	0.82	.	.	.	Not Available
Wabash General Hospital	Mount Carmel	0	113	0.58	.	.	.	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.



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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'.