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

### **Knee Arthroplasty (KPROs)**

#### ***Health Care Associated Infections***

The Hospital Report Card Act (Illinois Public Act 93-563) requires Illinois hospitals to report surgical site infections (SSI) occurring following knee arthroplasty (knee replacement) (KPRO). SSIs are infections that occur in the wound created by an invasive surgical procedure and are one of the most important causes of healthcare-associated infections (HAI). Illinois hospitals have been reporting surgical site infection KPRO data using the CDC's National Healthcare Safety Network (NHSN) since April, 2010. IDPH monitors inpatient procedures and Deep Incisional Primary and Organ/Space SSIs that were identified during admission or readmission to Illinois facilities as defined in the NHSN Manual.

Comparison summary data for SSIs, expressed as a Standardized Infection Ratio (SIR), are presented by hospital for KPRO surgery. Interpretation of these summary measures is provided. This report and analysis reflects the January 1, 2014 to December 31, 2014 SSI data of Illinois hospitals that performs knee arthroplasty (KPRO).

More information on the NHSN Surveillance for Surgical Site Infection (SSI) Events may be found at the CDC website:

<http://www.cdc.gov/nhsn/acute-care-hospital/ssi/>

## Surgical Site Infection (SSI) Standardized Infection Ratio (SIR<sup>a</sup>)

### Knee Arthroplasty (KPRO)

Reportable Period: January 1, 2014 - December 31, 2014

STATEWIDE

Hospital Name	Hospital City	Observed [O] Number of KPRO <sup>b</sup>	Number of KPRO Performed	Statistically Predicted [E] Number of KPRO <sup>c</sup>	Unit-Specific SIR <sup>d</sup> = O/E	95%CI (Lower) <sup>e</sup>	95%CI (Upper)	Statistical Interpretation
Abraham Lincoln Memorial Hospital	Lincoln	0	48	0.22	.	.	.	Not Available
Adventist Bolingbrook Hospital	Bolingbrook	0	30	0.18	.	.	.	Not Available
Adventist Glenoaks Hospital	Glendale Heights	1	72	0.39	.	.	.	Not Available
Adventist Hinsdale Hospital	Hinsdale	0	463	3.26	0.00	.	0.92	Lower
Adventist La Grange Memorial Hospital	La Grange	1	202	1.37	0.73	0.04	3.61	Similar
Advocate Bromenn Medical Center	Normal	0	460	3.19	0.00	.	0.94	Lower
Advocate Christ Medical Center	Oak Lawn	5	627	5.18	0.97	0.35	2.14	Similar
Advocate Condell Medical Center **	Libertyville	0	190	1.55	0.00	.	1.94	Similar
Advocate Good Samaritan Hospital	Downers Grove	2	343	2.12	0.94	0.16	3.12	Similar
Advocate Good Shepherd Hospital	Barrington	2	256	1.51	1.32	0.22	4.37	Similar
Advocate Illinois Masonic Medical Center **	Chicago	0	202	1.56	0.00	.	1.93	Similar
Advocate Lutheran General Hospital	Park Ridge	3	947	5.99	0.50	0.13	1.36	Similar
Advocate Sherman Hospital **	Elgin	0	338	1.84	0.00	.	1.63	Similar
Advocate South Suburban Hospital **	Hazel Crest	0	195	1.28	0.00	.	2.34	Similar
Advocate Trinity Hospital	Chicago	0	70	0.35	.	.	.	Not Available
Alexian Brothers Medical Center	Elk Grove Village	1	442	2.65	0.38	0.02	1.86	Similar
Alton Memorial Hospital	Alton	2	210	1.33	1.51	0.25	4.98	Similar
Anderson Hospital	Maryville	0	153	0.82	.	.	.	Not Available
Blessing Hospital	Quincy	0	117	0.84	.	.	.	Not Available
CGH Medical Center	Sterling	0	132	0.59	.	.	.	Not Available

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Carle Foundation Hospital	Urbana	2	470	3.08	0.65	0.11	2.14	Similar
Carle Hoopeston Regional Health Center *	Hoopeston	.	.	.	.	.	.	Not Available
Centegra Hospital	Woodstock	0	125	0.73	.	.	.	Not Available
Centegra Hospital **	McHenry	0	358	2.19	0.00	.	1.37	Similar
Community First Medical Center	Chicago	0	31	0.17	.	.	.	Not Available
Crawford Memorial Hospital	Robinson	0	28	0.14	.	.	.	Not Available
Crossroads Community Hospital	Mount Vernon	0	67	0.33	.	.	.	Not Available
Decatur Memorial Hospital	Decatur	4	426	2.93	1.37	0.43	3.30	Similar
Edward Hospital **	Naperville	0	556	2.87	0.00	.	1.04	Similar
Elmhurst Memorial Hospital	Elmhurst	2	330	2.30	0.87	0.15	2.87	Similar
FHN Memorial Hospital	Freeport	0	112	0.51	.	.	.	Not Available
Fayette County Hospital *	Vandalia	.	.	.	.	.	.	Not Available
Franciscan St. James Health **	Chicago Heights	0	132	1.24	0.00	.	2.41	Similar
Galesburg Cottage Hospital	Galesburg	0	80	0.60	.	.	.	Not Available
Gateway Regional Medical Center	Granite City	0	139	0.93	.	.	.	Not Available
Genesis Medical Center	Silvis	0	121	0.66	.	.	.	Not Available
Gibson Area Hospital & Health Services	Gibson City	1	130	0.67	.	.	.	Not Available
Graham Hospital	Canton	0	63	0.35	.	.	.	Not Available
HSHS St. Anthony's Memorial Hospital	Effingham	1	468	2.45	0.41	0.02	2.02	Similar
HSHS St. Elizabeth's Hospital	Belleville	0	108	0.86	.	.	.	Not Available

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HSHS St. Francis Hospital *	Litchfield	.	.	.	.	.	.	Not Available
HSHS St. John's Hospital	Springfield	2	426	3.32	0.60	0.10	1.99	Similar
HSHS St. Joseph's Hospital	Highland	0	53	0.29	.	.	.	Not Available
HSHS St. Joseph's Hospital *	Breese	.	.	.	.	.	.	Not Available
HSHS St. Mary's Hospital *	Streator	.	.	.	.	.	.	Not Available
HSHS St. Mary's Hospital	Decatur	1	195	1.30	0.77	0.04	3.79	Similar
Hammond-Henry Hospital	Geneseo	0	87	0.42	.	.	.	Not Available
Heartland Regional Medical Center	Marion	0	140	0.91	.	.	.	Not Available
Herrin Hospital **	Herrin	0	303	1.54	0.00	.	1.95	Similar
Holy Cross Hospital	Chicago	0	48	0.37	.	.	.	Not Available
Hopedale Medical Complex *	Hopedale	.	.	.	.	.	.	Not Available
Illinois Valley Community Hospital	Peru	0	155	0.79	.	.	.	Not Available
Ingalls Memorial Hospital	Harvey	2	417	2.30	0.87	0.15	2.88	Similar
Iroquois Memorial Hospital & Resident Home	Watseka	0	22	0.12	.	.	.	Not Available
Jersey Community Hospital	Jerseyville	0	32	0.17	.	.	.	Not Available
John H. Stroger, Jr. Hospital of Cook County *	Chicago	.	.	.	.	.	.	Not Available
Katherine Shaw Bethea Hospital	Dixon	0	56	0.25	.	.	.	Not Available
Kishwaukee Hospital	DeKalb	0	190	0.88	.	.	.	Not Available
Little Company of Mary Hospital & Health Care Centers	Evergreen Park	1	103	0.93	.	.	.	Not Available
Loyola Gottlieb Memorial Hospital **	Melrose Park	0	242	1.51	0.00	.	1.98	Similar

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Loyola University Medical Center **	Maywood	0	202	1.75	0.00	.	1.71	Similar
MacNeal Hospital **	Berwyn	0	258	2.32	0.00	.	1.29	Similar
Mcdonough District Hospital	Macomb	1	27	0.15	.	.	.	Not Available
Memorial Hospital **	Belleville	0	418	2.49	0.00	.	1.20	Similar
Memorial Hospital *	Carthage	.	.	.	.	.	.	Not Available
Memorial Hospital	Chester	0	21	0.10	.	.	.	Not Available
Memorial Hospital of Carbondale	Carbondale	1	332	1.89	0.53	0.03	2.61	Similar
Memorial Medical Center	Springfield	1	799	5.50	0.18	0.01	0.90	Lower
Mercy Harvard Hospital *	Harvard	.	.	.	.	.	.	Not Available
Mercy Hospital & Medical Center	Chicago	0	89	0.46	.	.	.	Not Available
Methodist Hospital of Chicago *	Chicago	.	.	.	.	.	.	Not Available
Metrosouth Medical Center	Blue Island	1	89	0.72	.	.	.	Not Available
Morris Hospital & Healthcare Centers	Morris	0	142	0.62	.	.	.	Not Available
Mount Sinai Hospital	Chicago	0	42	0.30	.	.	.	Not Available
Northshore Univ HS Glenbrook Hospital	Glenview	2	567	2.99	0.67	0.11	2.21	Similar
Northshore Univ HS Highland Park Hospital	Highland Park	1	138	0.66	.	.	.	Not Available
Northshore Univ HS Skokie Hospital	Skokie	3	787	3.75	0.80	0.20	2.18	Similar
Northwest Community Hospital	Arlington Heights	0	534	3.84	0.00	.	0.78	Lower
Northwestern Medicine Central Dupage Hospital	Winfield	0	1130	6.97	0.00	.	0.43	Lower
Northwestern Medicine Delnor Hospital	Geneva	2	224	1.10	1.82	0.31	6.02	Similar

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Northwestern Medicine Lake Forest Hospital	Lake Forest	1	381	1.98	0.51	0.03	2.49	Similar
Northwestern Memorial Hospital	Chicago	3	663	4.81	0.62	0.16	1.70	Similar
Norwegian-American Hospital *	Chicago	.	.	.	.	.	.	Not Available
OSF Holy Family Medical Center *	Monmouth	.	.	.	.	.	.	Not Available
OSF Saint Anthony Medical Center	Rockford	1	422	2.49	0.40	0.02	1.98	Similar
OSF Saint Anthony's Health Center	Alton	0	49	0.35	.	.	.	Not Available
OSF Saint Elizabeth Medical Center	Ottawa	0	26	0.13	.	.	.	Not Available
OSF Saint Francis Medical Center	Peoria	0	503	3.66	0.00	.	0.82	Lower
OSF Saint James-John W Albrecht Medical Center	Pontiac	0	73	0.36	.	.	.	Not Available
OSF Saint Luke Medical Center *	Kewanee	.	.	.	.	.	.	Not Available
OSF Saint Paul Medical Center *	Mendota	.	.	.	.	.	.	Not Available
OSF St. Joseph Medical Center	Bloomington	3	229	0.98	.	.	.	Not Available
OSF St. Mary Medical Center	Galesburg	0	75	0.50	.	.	.	Not Available
Palos Community Hospital **	Palos Heights	0	360	2.15	0.00	.	1.40	Similar
Paris Community Hospital	Paris	0	29	0.15	.	.	.	Not Available
Passavant Area Hospital	Jacksonville	0	166	0.81	.	.	.	Not Available
Pekin Hospital	Pekin	1	140	0.91	.	.	.	Not Available
Presence Covenant Medical Center	Urbana	3	176	1.19	2.52	0.64	6.85	Similar
Presence Mercy Medical Center	Aurora	0	93	0.55	.	.	.	Not Available
Presence Resurrection Medical Center **	Chicago	0	203	1.22	0.00	.	2.45	Similar

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Presence Saint Francis Hospital	Evanston	0	135	0.96	.	.	.	Not Available
Presence Saint Joseph Hospital	Elgin	0	185	0.90	.	.	.	Not Available
Presence Saint Joseph Hospital	Chicago	0	101	0.73	.	.	.	Not Available
Presence Saint Joseph Medical Center **	Joliet	0	327	2.17	0.00	.	1.38	Similar
Presence Saints Mary And Elizabeth Medical Center	Chicago	1	189	1.41	0.71	0.04	3.50	Similar
Presence St. Marys Hospital	Kankakee	0	138	0.69	.	.	.	Not Available
Presence United Samaritans Medical Center	Danville	0	51	0.25	.	.	.	Not Available
Richland Memorial Hospital *	Olney	.	.	.	.	.	.	Not Available
Riverside Medical Center	Kankakee	1	388	2.62	0.38	0.02	1.88	Similar
Rochelle Community Hospital *	Rochelle	.	.	.	.	.	.	Not Available
Rockford Memorial Hospital	Rockford	2	323	2.13	0.94	0.16	3.10	Similar
Rush Oak Park Hospital	Oak Park	0	60	0.33	.	.	.	Not Available
Rush University Medical Center	Chicago	11	1729	11.46	0.96	0.51	1.67	Similar
Rush-Copley Medical Center **	Aurora	0	335	2.97	0.00	.	1.01	Similar
SSM Health Good Samaritan Hospital	Mount Vernon	1	171	0.86	.	.	.	Not Available
SSM Health St. Mary's Hospital *	Centralia	.	.	.	.	.	.	Not Available
Saint Anthony Hospital	Chicago	0	47	0.33	.	.	.	Not Available
Salem Township Hospital *	Salem	.	.	.	.	.	.	Not Available
Sarah Bush Lincoln Health Center	Mattoon	2	303	2.24	0.89	0.15	2.95	Similar
Silver Cross Hospital **	New Lenox	0	272	1.51	0.00	.	1.98	Similar

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Sparta Community Hospital *	Sparta	.	.	.	.	.	.	Not Available
St. Alexius Medical Center	Hoffman Estates	1	383	2.30	0.43	0.02	2.14	Similar
St. Margaret's Health	Spring Valley	0	146	0.64	.	.	.	Not Available
Swedish Covenant Hospital	Chicago	1	171	1.41	0.71	0.04	3.49	Similar
SwedishAmerican Hospital	Rockford	0	422	3.24	0.00	.	0.92	Lower
Taylorville Memorial Hospital *	Taylorville	.	.	.	.	.	.	Not Available
Thorek Hospital & Medical Center	Chicago	0	27	0.15	.	.	.	Not Available
Touchette Regional Hospital *	Centreville	.	.	.	.	.	.	Not Available
UnityPoint Health - Methodist	Peoria	2	264	1.66	1.21	0.20	3.99	Similar
UnityPoint Health - Trinity Rock Island	Rock Island	1	380	2.28	0.44	0.02	2.16	Similar
UnityPoint Health-Proctor	Peoria	3	413	1.97	1.52	0.39	4.15	Similar
University of Chicago Medicine **	Chicago	0	275	2.51	0.00	.	1.19	Similar
University of Illinois Hospital & Health Sciences System	Chicago	2	155	1.66	1.21	0.20	3.99	Similar
Valley West Hospital *	Sandwich	.	.	.	.	.	.	Not Available
Vista Medical Center East	Waukegan	1	120	0.86	.	.	.	Not Available
Wabash General Hospital	Mount Carmel	0	97	0.51	.	.	.	Not Available
Weiss Memorial Hospital	Chicago	3	206	1.63	1.84	0.47	5.00	Similar
West Suburban Medical Center	Oak Park	0	60	0.38	.	.	.	Not Available
Westlake Hospital	Melrose Park	0	22	0.12	.	.	.	Not Available



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**Knee Arthroplasty (KPRO)**  
**Reportable Period: January 1, 2014 - December 31, 2014**  
**STATEWIDE**

NHSN Data contained in this report were last generated on December 15, 2015

- \* Hospital with 20 or fewer procedures performed. Reporting on too few procedures is a risk to patient confidentiality.
- \*\* Hospital reported zero infections, however, the number of reported events is not significantly different than predicted.

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

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

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

<sup>d</sup> If the predicted number of infections is less than 1.00, the SIR is not calculated because it does not meet the minimum requirement for precision.

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

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

NOTE: All conclusions are based on the assumption that the hospital's patient population is similar to the NHSN pooled patient population