



Pat Quinn, Governor  
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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 (CABG) or knee arthroplasty (knee replacement) (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, 2012 - June 30, 2013  
 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 HOSPITAL	LINCOLN	0	49	0.27	.	.	.	Not Available
ADVENTIST BOLINGBROOK HOSPITAL	BOLINGBROOK	0	43	0.35	.	.	.	Not Available
ADVENTIST GLENOAKS HOSPITAL	GLENDALE HEIGHTS	0	38	0.24	.	.	.	Not Available
ADVENTIST HINSDALE HOSPITAL **	HINSDALE	0	463	3.42	0.00	.	1.08	Similar
ADVENTIST LA GRANGE MEMORIAL HOSPITAL **	LAGRANGE	0	147	1.21	0.00	.	3.04	Similar
ADVOCATE BROMENN MEDICAL CENTER **	NORMAL	0	415	2.76	0.00	.	1.34	Similar
ADVOCATE CHRIST MEDICAL CENTER	OAK LAWN	4	706	5.44	0.74	0.20	1.88	Similar
ADVOCATE CONDELL MEDICAL CENTER **	LIBERTYVILLE	0	181	1.51	0.00	.	2.44	Similar
ADVOCATE GOOD SAMARITAN HOSPITAL **	DOWNERS GROVE	0	327	2.06	0.00	.	1.80	Similar
ADVOCATE GOOD SHEPHERD HOSPITAL **	BARRINGTON	0	206	1.18	0.00	.	3.13	Similar
ADVOCATE ILLINOIS MASONIC MEDICAL CENTER **	CHICAGO	0	209	1.60	0.00	.	2.30	Similar
ADVOCATE LUTHERAN GENERAL HOSPITAL	PARK RIDGE	2	933	5.67	0.35	0.04	1.27	Similar
ADVOCATE SHERMAN HOSPITAL **	ELGIN	0	334	1.91	0.00	.	1.93	Similar
ADVOCATE SOUTH SUBURBAN HOSPITAL	HAZEL CREST	0	159	0.98	.	.	.	Not Available
ADVOCATE TRINITY HOSPITAL	CHICAGO	0	92	0.55	.	.	.	Not Available
ALEXIAN BROTHERS MEDICAL CENTER **	ELK GROVE VILLAGE	0	468	3.13	0.00	.	1.18	Similar
ALTON MEMORIAL HOSPITAL	ALTON	1	110	0.80	.	.	.	Not Available
ANDERSON HOSPITAL **	MARYVILLE	0	237	1.27	0.00	.	2.91	Similar
BLESSING HOSPITAL	QUINCY	0	108	0.80	.	.	.	Not Available
CARLE FOUNDATION HOSPITAL	URBANA	1	462	3.18	0.31	0.01	1.75	Similar
CENTEGRA HOSPITAL MCHENRY **	MCHENRY	0	225	1.40	0.00	.	2.64	Similar

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CENTEGRA HOSPITAL WOODSTOCK	WOODSTOCK	2	265	1.39	1.44	0.17	5.20	Similar
CENTRAL DUPAGE HOSPITAL	WINFIELD	4	1136	6.97	0.57	0.16	1.47	Similar
CGH MEDICAL CENTER	STERLING	1	178	0.88	.	.	.	Not Available
CRAWFORD MEMORIAL HOSPITAL	ROBINSON	0	22	0.08	.	.	.	Not Available
CROSSROADS COMMUNITY HOSPITAL	MT VERNON	0	84	0.51	.	.	.	Not Available
DECATUR MEMORIAL HOSPITAL **	DECATUR	0	332	1.98	0.00	.	1.87	Similar
DELNOR COMMUNITY HOSPITAL **	GENEVA	0	223	1.06	0.00	.	3.48	Similar
EDWARD HOSPITAL **	NAPERVILLE	0	496	2.52	0.00	.	1.47	Similar
ELMHURST MEMORIAL HOSPITAL **	ELMHURST	0	376	2.76	0.00	.	1.34	Similar
FAYETTE COUNTY HOSPITAL *	VANDALIA	.	.	.	.	.	.	Not Available
FHN MEMORIAL HOSPITAL	FREEPORT	0	156	0.73	.	.	.	Not Available
FRANCISCAN ST JAMES HEALTH CHICAGO HEIGHTS **	CHICAGO HEIGHTS	0	168	1.57	0.00	.	2.35	Similar
FRANCISCAN ST JAMES HEALTH OLYMPIA FIELDS **	OLYMPIA FIELDS	0	168	1.57	0.00	.	2.35	Similar
GALESBURG COTTAGE HOSPITAL	GALESBURG	0	72	0.48	.	.	.	Not Available
GATEWAY REGIONAL MEDICAL CENTER **	GRANITE CITY	0	153	1.03	0.00	.	3.58	Similar
GENESIS MEDICAL CENTER ILLINI CAMPUS	SILVIS	0	111	0.61	.	.	.	Not Available
GIBSON COMMUNITY HOSPITAL	GIBSON CITY	2	86	0.49	.	.	.	Not Available
GOOD SAMARITAN REGIONAL HEALTH CENTER	MT VERNON	0	141	0.84	.	.	.	Not Available
GRAHAM HOSPITAL ASSOCIATION	CANTON	0	68	0.37	.	.	.	Not Available
HAMMONDHENRY HOSPITAL	GENESEO	0	66	0.37	.	.	.	Not Available
HEARTLAND REGIONAL MEDICAL CENTER	MARION	0	68	0.50	.	.	.	Not Available
HERRIN HOSPITAL	HERRIN	1	250	1.31	0.77	0.02	4.26	Similar

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HOLY CROSS HOSPITAL	CHICAGO	0	39	0.30	.	.	.	Not Available
HOOPESTON COMMUNITY MEMORIAL HOSPITAL *	HOOPESTON	.	.	.	.	.	.	Not Available
HOPEDALE HOSPITAL *	HOPEDALE	.	.	.	.	.	.	Not Available
ILLINOIS VALLEY COMMUNITY HOSPITAL	PERU	0	127	0.57	.	.	.	Not Available
INGALLS MEMORIAL HOSPITAL	HARVEY	1	435	2.36	0.42	0.01	2.36	Similar
IROQUOIS MEMORIAL HOSPITAL	WATSEKA	0	23	0.15	.	.	.	Not Available
JOHN H STROGER JR HOSPITAL OF COOK COUNTY *	CHICAGO	.	.	.	.	.	.	Not Available
KATHERINE SHAW BETHEA HOSPITAL	DIXON	0	65	0.37	.	.	.	Not Available
KEWANEE HOSPITAL *	KEWANEE	.	.	.	.	.	.	Not Available
KISHWAUKEE COMMUNITY HOSPITAL **	DEKALB	0	214	1.07	0.00	.	3.46	Similar
LITTLE COMPANY OF MARY HOSPITAL	EVERGREEN PARK	1	104	1.00	.	.	.	Not Available
LOYOLA GOTTLIEB MEMORIAL HOSPITAL **	MELROSE PARK	0	250	1.58	0.00	.	2.34	Similar
LOYOLA UNIVERSITY MEDICAL CENTER **	MAYWOOD	0	161	1.43	0.00	.	2.57	Similar
MCDONOUGH DISTRICT HOSPITAL	MACOMB	0	27	0.14	.	.	.	Not Available
MEMORIAL HOSPITAL **	CARTHAGE	0	351	2.36	0.00	.	1.56	Similar
MEMORIAL HOSPITAL *	CHESTER	.	.	.	.	.	.	Not Available
MEMORIAL HOSPITAL *	BELLEVILLE	.	.	.	.	.	.	Not Available
MEMORIAL HOSPITAL OF CARBONDALE **	CARBONDALE	0	324	1.89	0.00	.	1.96	Similar
MEMORIAL MEDICAL CENTER	SPRINGFIELD	5	821	5.56	0.90	0.29	2.10	Similar
MENDOTA COMMUNITY HOSPITAL *	MENDOTA	.	.	.	.	.	.	Not Available
MERCY HARVARD HOSPITAL INC *	HARVARD	.	.	.	.	.	.	Not Available
MERCY HOSPITAL AND MEDICAL CENTER	CHICAGO	1	93	0.56	.	.	.	Not Available

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METHODIST HOSPITAL OF CHICAGO *	CHICAGO	.	.	.	.	.	.	Not Available
METROSOUTH MEDICAL CENTER	BLUE ISLAND	1	99	0.64	.	.	.	Not Available
MORRIS HOSPITAL AND HEALTH CARE CENTERS	MORRIS	0	121	0.50	.	.	.	Not Available
MOUNT SINAI HOSPITAL	CHICAGO	0	31	0.25	.	.	.	Not Available
NORTHSHORE UNIV HS GLENBROOK HOSPITAL	GLENVIEW	3	520	3.16	0.95	0.20	2.77	Similar
NORTHSHORE UNIV HS HIGHLAND PARK HOSPITAL	HIGHLAND PARK	2	106	0.52	.	.	.	Not Available
NORTHSHORE UNIV HS SKOKIE HOSPITAL **	SKOKIE	0	452	2.44	0.00	.	1.51	Similar
NORTHWEST COMMUNITY HOSPITAL	ARLINGTON HEIGHTS	2	490	3.41	0.59	0.07	2.12	Similar
NORTHWESTERN LAKE FOREST HOSPITAL	LAKE FOREST	1	411	2.27	0.44	0.01	2.46	Similar
NORTHWESTERN MEMORIAL HOSPITAL	CHICAGO	3	848	5.90	0.51	0.11	1.49	Similar
NORWEGIANAMERICAN HOSPITAL INC *	CHICAGO	.	.	.	.	.	.	Not Available
OSF HOLY FAMILY MEDICAL CENTER *	MONMOUTH	.	.	.	.	.	.	Not Available
OSF SAINT ANTHONY MEDICAL CENTER	ROCKFORD	1	350	2.23	0.45	0.01	2.50	Similar
OSF SAINT FRANCIS MEDICAL CENTER	PEORIA	2	435	2.95	0.68	0.08	2.45	Similar
OSF SAINT JAMESJOHN W ALBRECHT MEDICAL CENTER	PONTIAC	0	59	0.27	.	.	.	Not Available
OSF ST JOSEPH MEDICAL CENTER **	BLOOMINGTON	0	227	1.01	0.00	.	3.67	Similar
OSF ST MARY MEDICAL CENTER	GALESBURG	1	122	0.71	.	.	.	Not Available
OTTAWA REGIONAL HOSPITAL AND HEALTHCARE CENTER	OTTAWA	0	28	0.12	.	.	.	Not Available
PALOS COMMUNITY HOSPITAL	PALOS HEIGHTS	1	392	2.39	0.42	0.01	2.33	Similar
PARIS COMMUNITY HOSPITAL	PARIS	0	39	0.17	.	.	.	Not Available
PASSAVANT AREA HOSPITAL	JACKSONVILLE	1	184	0.93	.	.	.	Not Available

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PEKIN MEMORIAL HOSPITAL	PEKIN	0	143	0.79	.	.	.	Not Available
PERRY MEMORIAL HOSPITAL *	PRINCETON	.	.	.	.	.	.	Not Available
PRESENCE COVENANT MEDICAL CENTER	URBANA	2	173	1.46	1.37	0.17	4.96	Similar
PRESENCE MERCY MEDICAL CENTER	AURORA	0	121	0.55	.	.	.	Not Available
PRESENCE OUR LADY OF THE RESURRECTION MEDICAL CENTER	CHICAGO	0	35	0.24	.	.	.	Not Available
PRESENCE RESURRECTION MEDICAL CENTER	CHICAGO	0	130	0.84	.	.	.	Not Available
PRESENCE SAINT FRANCIS HOSPITAL **	EVANSTON	0	155	1.07	0.00	.	3.46	Similar
PRESENCE SAINT JOSEPH HOSPITAL CHICAGO	CHICAGO	2	105	0.81	.	.	.	Not Available
PRESENCE SAINT JOSEPH HOSPITAL ELGIN	ELGIN	0	163	0.89	.	.	.	Not Available
PRESENCE SAINT JOSEPH MEDICAL CENTER **	JOLIET	0	399	2.76	0.00	.	1.34	Similar
PRESENCE SAINTS MARY AND ELIZABETH MEDICAL CENTER	CHICAGO	0	123	0.87	.	.	.	Not Available
PRESENCE ST MARYS HOSPITAL	KANKAKEE	0	162	0.82	.	.	.	Not Available
PRESENCE UNITED SAMARITANS MEDICAL CENTER	DANVILLE	0	60	0.29	.	.	.	Not Available
PROCTOR COMMUNITY HOSPITAL	PEORIA	2	410	1.88	1.07	0.13	3.85	Similar
RIVERSIDE MEDICAL CENTER	KANKAKEE	1	352	2.18	0.46	0.01	2.56	Similar
ROCHELLE COMMUNITY HOSPITAL *	ROCHELLE	.	.	.	.	.	.	Not Available
ROCKFORD MEMORIAL HOSPITAL	ROCKFORD	1	263	1.91	0.52	0.01	2.92	Similar
RUSH OAK PARK HOSPITAL INC	OAK PARK	2	88	0.53	.	.	.	Not Available
RUSH UNIVERSITY MEDICAL CENTER	CHICAGO	5	1285	8.66	0.58	0.19	1.35	Similar
RUSHCOPLEY MEDICAL CENTER **	AURORA	0	304	2.67	0.00	.	1.38	Similar
SAINT ANTHONYS HEALTH CENTER	ALTON	1	60	0.35	.	.	.	Not Available
SALEM TOWNSHIP HOSPITAL *	SALEM	.	.	.	.	.	.	Not Available

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SARAH BUSH LINCOLN HEALTH CENTER	MATTOON	2	263	2.04	0.98	0.12	3.54	Similar
SILVER CROSS HOSPITAL AND MEDICAL CENTERS **	NEW LENOX	0	243	1.43	0.00	.	2.59	Similar
SPARTA COMMUNITY HOSPITAL *	SPARTA	.	.	.	.	.	.	Not Available
ST ALEXIUS MEDICAL CENTER	HOFFMAN ESTATES	2	375	2.23	0.90	0.11	3.23	Similar
ST ANTHONY HOSPITAL *	CHICAGO	.	.	.	.	.	.	Not Available
ST ANTHONYS MEMORIAL HOSPITAL	EFFINGHAM	2	609	3.56	0.56	0.07	2.03	Similar
ST ELIZABETHS HOSPITAL	BELLEVILLE	0	89	0.69	.	.	.	Not Available
ST FRANCIS HOSPITAL *	LITCHFIELD	.	.	.	.	.	.	Not Available
ST JOHNS HOSPITAL **	SPRINGFIELD	0	404	3.20	0.00	.	1.15	Similar
ST JOSEPHS HOSPITAL	HIGHLAND	0	40	0.19	.	.	.	Not Available
ST JOSEPHS HOSPITAL BREESE *	BREESE	.	.	.	.	.	.	Not Available
ST MARGARETS HOSPITAL	SPRING VALLEY	1	127	0.58	.	.	.	Not Available
ST MARYS HOSPITAL CENTRALIA	CENTRALIA	0	37	0.23	.	.	.	Not Available
ST MARYS HOSPITAL DECATUR	DECATUR	0	109	0.68	.	.	.	Not Available
ST MARYS HOSPITAL STREATOR	STREATOR	0	23	0.19	.	.	.	Not Available
SWEDISH COVENANT HOSPITAL	CHICAGO	0	132	0.95	.	.	.	Not Available
SWEDISHAMERICAN HOSPITAL	ROCKFORD	4	407	3.23	1.24	0.34	3.17	Similar
TAYLORVILLE MEMORIAL HOSPITAL *	TAYLORVILLE	.	.	.	.	.	.	Not Available
THE UNIVERSITY OF CHICAGO MEDICAL CENTER **	CHICAGO	0	182	1.41	0.00	.	2.61	Similar
THOREK MEMORIAL HOSPITAL *	CHICAGO	.	.	.	.	.	.	Not Available
TOUCHETTE REGIONAL HOSPITAL *	CENTREVILLE	.	.	.	.	.	.	Not Available
UNITYPOINT HEALTH METHODIST	PEORIA	1	266	1.73	0.58	0.02	3.22	Similar

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UNITYPOINT HEALTH TRINITY ROCK ISLAND **	ROCK ISLAND	0	306	1.80	0.00	.	2.05	Similar
UNIVERSITY OF ILLINOIS HOSPITAL AT CHICAGO	CHICAGO	1	147	1.95	0.51	0.01	2.85	Similar
VALLEY WEST COMMUNITY HOSPITAL *	SANDWICH	.	.	.	.	.	.	Not Available
VANGUARD MACNEAL HOSPITAL	BERWYN	2	198	1.87	1.07	0.13	3.87	Similar
VANGUARD WEISS MEMORIAL HOSPITAL	CHICAGO	2	211	1.59	1.26	0.15	4.55	Similar
VANGUARD WEST SUBURBAN MEDICAL CENTER	OAK PARK	0	95	0.63	.	.	.	Not Available
VANGUARD WESTLAKE HOSPITAL	MELROSE PARK	0	36	0.22	.	.	.	Not Available
VISTA MEDICAL CENTER EAST	WAUKEGAN	0	104	0.69	.	.	.	Not Available
WABASH GENERAL HOSPITAL	MT CARMEL	1	77	0.41	.	.	.	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.

<sup>a</sup> The Standardized Infection Ratio (SIR) is a summary measure used to compare the surgical site infection (SSI) experience amongst a group of 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 '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'. 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'. All conclusions are based on the assumption that the hospital's patient population is similar to the NHSN pooled patient population.