



Pat Quinn, Governor  
LaMar Hasbrouck, MD, MPH, Director

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122 S. Michigan Ave., Suite 700 • Chicago, IL 60603-6119 • [www.idph.state.il.us](http://www.idph.state.il.us)

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

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

#### ***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 (knee replacement) (KPRO). Comparison summary data for SSIs, expressed as a Standardized Infection Ratio (SIR), are presented by hospital for CABGS and KPRO surgery, respectively. Interpretation of these summary measures is provided.

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

Reportable Period: July 1, 2011- June 30, 2012

### Knee Arthroplasty (KPROs)

#### STATEWIDE

Hospital	City	Observed [O] Number of SSIs <sup>b</sup>	Number of CABGS Performed <sup>c</sup>	Statistically "Expected" [E] number of SSIs <sup>d</sup>	Hospital - specific SIR <sup>e</sup> =O/E	95% Confidence Interval [CI] <sup>f</sup>		Statistical Interpretation
						Lower Bound <sup>g</sup>	Upper Bound	
ADVENTIST HINSDALE HOSPITAL	HINSDALE	1	443	2.781	0.36	0.009	2.003	Similar
ADVENTIST LA GRANGE MEMORIAL HOSPITAL**	LA GRANGE	0	148	1.298	0	-----	2.842	Similar
Advocate Bromenn Medical Center	NORMAL	2	352	2.53	0.791	0.096	2.856	Similar
ADVOCATE CHRIST HOSPITAL & MEDICAL CENTER	OAK LAWN	6	649	5.091	1.179	0.433	2.565	Similar
ADVOCATE GOOD SAMARITAN HOSPITAL	DOWNERS GROVE	1	289	1.688	0.592	0.015	3.301	Similar
ADVOCATE GOOD SHEPHERD HOSPITAL**	BARRINGTON	0	210	1.289	0	-----	2.862	Similar
ADVOCATE ILLINOIS MASONIC MEDICAL CENTER	CHICAGO	3	211	1.393	2.154	0.444	6.294	Similar
ADVOCATE LUTHERAN GENERAL HOSPITAL	PARK RIDGE	4	763	4.496	0.89	0.242	2.278	Similar
ADVOCATE SOUTH SUBURBAN HOSPITAL**	HAZEL CREST	0	194	1.253	0	-----	2.944	Similar
ALEXIAN BROTHERS MEDICAL CENTER	ELK GROVE VILLAGE	3	448	3.078	0.975	0.201	2.848	Similar
ANDERSON HOSPITAL**	MARYVILLE	0	198	1.225	0	-----	3.011	Similar
BLESSING HOSPITAL	QUINCY	3	142	1.117	2.686	0.554	7.849	Similar
CARLE FOUNDATION HOSPITAL	URBANA	1	374	2.139	0.468	0.012	2.605	Similar
CENTEGRA HOSPITAL	WOODSTOCK	3	248	1.363	2.201	0.454	6.432	Similar
CENTEGRA HOSPITAL**	MCHENRY	0	212	1.425	0	-----	2.589	Similar
CENTRAL DUPAGE HOSPITAL	WINFIELD	5	1113	7.067	0.708	0.23	1.651	Similar

DECATUR MEMORIAL HOSPITAL	DECATUR	2	423	2.708	0.739	0.089	2.668	Similar
EDWARD HOSPITAL	NAPERVILLE	4	553	2.847	1.405	0.383	3.597	Similar
ELMHURST MEMORIAL HOSPITAL	ELMHURST	1	223	1.627	0.615	0.016	3.424	Similar
Franciscan St. James Health	CHICAGO HEIGHTS	2	177	1.523	1.313	0.159	4.744	Similar
HERRIN HOSPITAL**	HERRIN	0	203	1.058	0	-----	3.487	Similar
INGALLS HOSPITAL**	HARVEY	0	425	2.386	0	-----	1.546	Similar
LITTLE COMPANY OF MARY HOSPITAL & HC CENTERS	EVERGREEN PARK	2	118	1.056	1.894	0.229	7	Similar
LOUIS A WEISS MEMORIAL HOSPITAL	CHICAGO	4	238	1.787	2.238	0.61	5.731	Similar
Loyola Gottlieb Memorial Hospital**	Melrose Park	0	257	2.238	0	-----	1.648	Similar
Loyola University Medical Center**	Maywood	0	155	1.371	0	-----	2.691	Similar
MACNEAL HOSPITAL**	BERWYN	0	209	1.876	0	-----	1.966	Similar
MEMORIAL HOSPITAL**	BELLEVILLE	0	357	2.3	0	-----	1.597	Similar
MEMORIAL HOSPITAL OF CARBONDALE	CARBONDALE	1	279	1.666	0.6	0.015	3.344	Similar
MEMORIAL MEDICAL CENTER	SPRINGFIELD	6	887	6.473	0.927	0.34	2.018	Similar
METHODIST MEDICAL CENTER OF ILLINOIS	PEORIA	2	249	1.619	1.235	0.15	4.462	Similar
NorthShore Univ HS Glenbrook Hospital	Glenview	1	580	3.182	0.314	0.008	1.751	Similar
NorthShore Univ HS Skokie Hospital**I	Skokie	0	236	1.249	0	-----	2.953	Similar
NORTHWEST COMMUNITY HOSPITAL**	ARLINGTON HEIGHTS	0	512	3.19	0	-----	1.156	Similar
Northwestern Lake Forest Hospital	LAKE FOREST	1	431	2.474	0.404	0.01	2.252	Similar
NORTHWESTERN MEMORIAL HOSPITAL	CHICAGO	2	967	6.196	0.323	0.039	1.166	Similar
OSF SAINT ANTHONY MEDICAL CENTER	ROCKFORD	2	342	1.859	1.076	0.13	3.886	Similar
OSF SAINT FRANCIS MEDICAL CENTER**	PEORIA	0	425	3.09	0	-----	1.194	Similar
PALOS COMMUNITY HOSPITAL	PALOS HEIGHTS	1	318	1.896	0.527	0.013	2.939	Similar
PROCTOR HOSPITAL**	PEORIA	0	380	1.691	0	-----	2.181	Similar
PROVENA COVENANT MEDICAL CENTER	URBANA	1	122	1.023	0.978	0.025	5.446	Similar
PROVENA SAINT JOSEPH MEDICAL CENTER	JOLIET	1	375	2.374	0.421	0.011	2.347	Similar
RESURRECTION MEDICAL CENTER**	CHICAGO	0	175	1.146	0	-----	3.219	Similar

RIVERSIDE MEDICAL CENTER	KANKAKEE	1	337	1.847	0.541	0.014	3.017	Similar
ROCKFORD MEMORIAL HOSPITAL	ROCKFORD	1	268	1.961	0.51	0.013	3	Similar
RUSH UNIVERSITY MEDICAL CENTER	CHICAGO	3	940	6.702	0.448	0.092	1.308	Similar
RUSH-COPLEY MEDICAL CENTER**	AURORA	0	327	2.92	0	-----	1.263	Similar
SARAH BUSH LINCOLN HEALTH CENTER	MATTOON	1	154	1.214	0.824	0.021	4.589	Similar
SHERMAN HOSPITAL	ELGIN	1	387	2.324	0.43	0.011	2.397	Similar
SILVER CROSS HOSPITAL**	JOLIET	0	262	1.196	0	-----	3.084	Similar
ST ALEXIUS MEDICAL CENTER**	HOFFMAN ESTATES	0	313	2.13	0	-----	1.732	Similar
ST ANTHONY'S MEMORIAL HOSPITAL	EFFINGHAM	3	593	3.119	0.962	0.198	2.811	Similar
ST JOHN'S HOSPITAL	SPRINGFIELD	4	397	3.233	1.237	0.337	3.168	Similar
Swedish American Hospital	Rockford	2	404	3.261	0.613	0.074	2.215	Similar
Trinity Medical Center-Rock Island	Rock Island	2	332	1.963	1.019	0.123	3.68	Similar
UNIVERSITY OF CHICAGO MEDICAL CENTER	CHICAGO	1	244	2.413	0.414	0.01	2.309	Similar
UNIVERSITY OF ILLINOIS MEDICAL CENTER AT CHICAGO	CHICAGO	3	123	1.4	2.143	0.442	6.262	Similar
VHS WEST SUBURBAN MEDICAL CENTER**	OAK PARK	0	135	1.196	0	-----	3.084	Similar
ABRAHAM LINCOLN MEMORIAL HOSPITAL**	LINCOLN	0	42	0.221	-----			Not Available
ADVENTIST BOLINGBROOK HOSPITAL**	BOLINGBROOK	0	33	0.211	-----			Not Available
ADVENTIST GLENOAKS HOSPITAL**	GLENDALE HTS	0	20	0.121	-----			Not Available
ADVOCATE CONDELL MEDICAL CENTER	LIBERTYVILLE	1	129	0.992	-----			Not Available
ADVOCATE TRINITY HOSPITAL**	CHICAGO	0	99	0.727	-----			Not Available
ALTON MEMORIAL HOSPITAL**	ALTON	0	82	0.602	-----			Not Available
CGH MEDICAL CENTER**	STERLING	0	140	0.771	-----			Not Available
CRAWFORD MEMORIAL HOSPITAL**	ROBINSON	0	*	0.064	-----			Not Available
CROSSROADS COMMUNITY HOSPITAL**	MOUNT VERNON	0	65	0.4	-----			Not Available
DELNOR HOSPITAL**	GENEVA	0	234	0.971	-----			Not Available
FHN MEMORIAL HOSPITAL**	FREEPORT	0	126	0.575	-----			Not Available
GALESBURG COTTAGE HOSPITAL	GALESBURG	1	116	0.779	-----			Not Available

GATEWAY REGIONAL MEDICAL CENTER**	GRANITE CITY	0	117	0.785	-----			Not Available
GENESIS MEDICAL CENTER-ILLINI CAMPUS**	SILVIS	0	103	0.645	-----			Not Available
GIBSON AREA HOSPITAL & HEALTH SERVICES	GIBSON CITY	1	122	0.884	-----			Not Available
GOOD SAMARITAN REGIONAL HEALTH CENTER	MOUNT VERNON	2	138	0.998	-----			Not Available
GRAHAM HOSPITAL**	CANTON	0	77	0.456	-----			Not Available
HAMMOND-HENRY HOSPITAL**	GENESEO	0	56	0.281	-----			Not Available
HEARTLAND REGIONAL MEDICAL CENTER**	MARION	0	84	0.474	-----			Not Available
HOLY CROSS HOSPITAL**	CHICAGO	0	64	0.477	-----			Not Available
HOLY FAMILY MEDICAL CENTER**	DES PLAINES	0	*	0.026	-----			Not Available
HOOPESTON COMMUNITY MEMORIAL HOSPITAL**	HOOPESTON	0	22	0.089	-----			Not Available
HOPEDALE MEDICAL COMPLEX**	HOPEDALE	0	*	0.027	-----			Not Available
ILLINOIS VALLEY COMMUNITY HOSPITAL**	PERU	0	142	0.659	-----			Not Available
IROQUOIS MEMORIAL HOSPITAL & RESIDENT HOME**	WATSEKA	0	*	0.01	-----			Not Available
KATHERINE SHAW BETHEA HOSPITAL**	DIXON	0	42	0.225	-----			Not Available
KISHWAUKEE COMMUNITY HOSPITAL**	DE KALB	0	167	0.802	-----			Not Available
MCDONOUGH DISTRICT HOSPITAL**	MACOMB	0	39	0.257	-----			Not Available
MEMORIAL HOSPITAL**	CARTHAGE	0	*	0.027	-----			Not Available
MEMORIAL HOSPITAL**	CHESTER	0	*	0.06	-----			Not Available
MENDOTA COMMUNITY HOSPITAL**	MENDOTA	0	*	0.013	-----			Not Available
MERCY HOSPITAL & MEDICAL CENTER**	CHICAGO	0	74	0.383	-----			Not Available
METHODIST HOSPITAL OF CHICAGO**	CHICAGO	0	*	0.075	-----			Not Available
METROSOUTH MEDICAL CENTER**	BLUE ISLAND	0	117	0.639	-----			Not Available
MORRIS HOSPITAL & HEALTHCARE CENTERS**	MORRIS	0	152	0.637	-----			Not Available
MOUNT SINAI HOSPITAL**	CHICAGO	0	26	0.181	-----			Not Available
NorthShore Univ HS Highland Park Hospital	HIGHLAND PARK	1	91	0.476	-----			Not Available

NORWEGIAN-AMERICAN HOSPITAL**	CHICAGO	0	*	0.022	----			Not Available
OSF Saint Elizabeth Medical Center**	OTTAWA	0	28	0.122	----			Not Available
OSF SAINT JAMES MEDICAL CENTER**	PONTIAC	0	48	0.277	----			Not Available
OSF ST JOSEPH MEDICAL CENTER	BLOOMINGTON	1	192	0.809	----			Not Available
OSF ST MARY MEDICAL CENTER	GALESBURG	1	131	0.782	----			Not Available
OUR LADY OF THE RESURRECTION MEDICAL CENTER**	CHICAGO	0	41	0.255	----			Not Available
PASSAVANT AREA HOSPITAL**	JACKSONVILLE	0	151	0.727	----			Not Available
PEKIN HOSPITAL	PEKIN	1	145	0.772	----			Not Available
PERRY MEMORIAL HOSPITAL**	PRINCETON	0	28	0.161	----			Not Available
PROVENA MERCY MEDICAL CENTER	AURORA	1	132	0.744	----			Not Available
PROVENA SAINT JOSEPH HOSPITAL**	ELGIN	0	127	0.718	----			Not Available
PROVENA ST MARY'S HOSPITAL	KANKAKEE	2	162	0.961	----			Not Available
PROVENA UNITED SAMARITANS LOGAN**	DANVILLE	0	27	0.139	----			Not Available
RICHLAND MEMORIAL HOSPITAL**	OLNEY	0	*	0.005	----			Not Available
ROCHELLE COMMUNITY HOSPITAL**	ROCHELLE	0	*	0.05	----			Not Available
RUSH OAK PARK HOSPITAL	OAK PARK	1	121	0.752	----			Not Available
SAINT ANTHONY HOSPITAL**	CHICAGO	0	*	0.025	----			Not Available
SAINT ANTHONY'S HEALTH CENTER**	ALTON	0	74	0.467	----			Not Available
SAINT JOSEPH HOSPITAL**	CHICAGO	0	82	0.52	----			Not Available
Saints Mary and Elizabeth Medical Center**	CHICAGO	0	31	0.232	----			Not Available
SPARTA COMMUNITY HOSPITAL	SPARTA	1	*	0.088	----			Not Available
ST ELIZABETH'S HOSPITAL**	BELLEVILLE	0	97	0.89	----			Not Available
ST FRANCIS HOSPITAL**	LITCHFIELD	0	28	0.165	----			Not Available
ST FRANCIS HOSPITAL**	EVANSTON	0	178	0.899	----			Not Available
ST JOSEPH'S HOSPITAL**	BREESE	0	*	0.026	----			Not Available
ST JOSEPH'S HOSPITAL	HIGHLAND	1	30	0.134	----			Not Available
ST MARGARET'S HEALTH**	SPRING VALLEY	0	160	0.646	----			Not Available

ST MARY'S HOSPITAL**	STREATOR	0	34	0.263	-----			Not Available
ST MARY'S HOSPITAL**	CENTRALIA	0	52	0.341	-----			Not Available
ST MARY'S HOSPITAL**	DECATUR	0	119	0.776	-----			Not Available
SWEDISH COVENANT HOSPITAL**	CHICAGO	0	107	0.834	-----			Not Available
THOREK HOSPITAL & MEDICAL CENTER**	CHICAGO	0	*	0.054	-----			Not Available
Touchette Regional Hospital**	Centreville	0	*	0.021	-----			Not Available
VALLEY WEST COMMUNITY HOSPITAL**	SANDWICH	0	*	0.038	-----			Not Available
VHS Westlake Hospital	Melrose Park	1	35	0.303	-----			Not Available
VISTA MEDICAL CENTER EAST	WAUKEGAN	1	119	0.842	-----			Not Available
WABASH GENERAL HOSPITAL**	MOUNT CARMEL	0	100	0.495	-----			Not Available

<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.

\* Zero Infections, significantly better than expected.

\*\* Zero Infections, but too few procedures performed to determine whether this is significantly better than expected.

**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" (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.