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

### **Coronary Artery Bypass Graft Surgery (CABGS) 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>a</sup>)  
 Reportable Period: July 1, 2012 - June 30, 2013  
 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  | 51                                    | 0.60   | .  | .                                    | .           | Not Available              |
| ADVENTIST LA GRANGE MEMORIAL HOSPITAL                  | LAGRANGE          | 0  | 46                                    | 0.58   | .  | .                                    | .           | Not Available              |
| ADVOCATE BROMENN MEDICAL CENTER                        | NORMAL            | 0  | 29                                    | 0.29   | .  | .                                    | .           | Not Available              |
| ADVOCATE CHRIST MEDICAL CENTER                         | OAK LAWN          | 6  | 429                                   | 5.33   | 1.13                                       | 0.41                                 | 2.45        | Similar                    |
| ADVOCATE CONDELL MEDICAL CENTER **                     | LIBERTYVILLE      | 0  | 148                                   | 1.98   | 0.00                                       | .                                    | 1.87        | Similar                    |
| ADVOCATE GOOD SAMARITAN HOSPITAL **                    | DOWNERS GROVE     | 0  | 139                                   | 1.51   | 0.00                                       | .                                    | 2.44        | Similar                    |
| ADVOCATE GOOD SHEPHERD HOSPITAL                        | BARRINGTON        | 0  | 97                                    | 0.94   | .  | .                                    | .           | Not Available              |
| ADVOCATE ILLINOIS MASONIC MEDICAL CENTER               | CHICAGO           | 1  | 66                                    | 0.98   | .  | .                                    | .           | Not Available              |
| ADVOCATE LUTHERAN GENERAL HOSPITAL                     | PARK RIDGE        | 1  | 74                                    | 0.75   | .  | .                                    | .           | Not Available              |
| ADVOCATE SHERMAN HOSPITAL **                           | ELGIN             | 0  | 114                                   | 1.26   | 0.00                                       | .                                    | 2.92        | Similar                    |
| ALEXIAN BROTHERS MEDICAL CENTER **                     | ELK GROVE VILLAGE | 0  | 117                                   | 1.46   | 0.00                                       | .                                    | 2.53        | Similar                    |
| ANN AND ROBERT H LURIE CHILDRENS HOSPITAL OF CHICAGO * | CHICAGO           | .  | .                                     | .  | .  | .                                    | .           | Not Available              |
| BLESSING HOSPITAL                                      | QUINCY            | 3  | 52                                    | 0.57   | .  | .                                    | .           | Not Available              |
| CARLE FOUNDATION HOSPITAL                              | URBANA            | 2  | 231                                   | 2.90   | 0.69                                       | 0.08                                 | 2.49        | Similar                    |
| CENTEGRA HOSPITAL MCHENRY **                           | MCHENRY           | 0  | 103                                   | 1.43   | 0.00                                       | .                                    | 2.58        | Similar                    |
| CENTRAL DUPAGE HOSPITAL **                             | WINFIELD          | 0  | 164                                   | 2.12   | 0.00                                       | .                                    | 1.74        | Similar                    |
| DECATUR MEMORIAL HOSPITAL                              | DECATUR           | 2  | 59                                    | 0.62   | .  | .                                    | .           | Not Available              |
| EDWARD HOSPITAL **                                     | NAPERVILLE        | 0  | 170                                   | 1.67   | 0.00                                       | .                                    | 2.21        | Similar                    |
| ELMHURST MEMORIAL HOSPITAL                             | ELMHURST          | 1  | 75                                    | 1.27   | 0.79                                       | 0.02                                 | 4.39        | Similar                    |
| FRANCISCAN ST JAMES HEALTH CHICAGO HEIGHTS             | CHICAGO HEIGHTS   | 0  | 62                                    | 0.87   | .  | .                                    | .           | Not Available              |
| FRANCISCAN ST JAMES HEALTH OLYMPIA FIELDS              | OLYMPIA FIELDS    | 0  | 62                                    | 0.87   | .  | .                                    | .           | Not Available              |

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|  |                   |  |                                       |  |  | Lower Bound <sup>g</sup>             | Upper Bound |                            |
| GOOD SAMARITAN REGIONAL HEALTH CENTER **     | MT VERNON         | 0  | 72                                    | 1.37   | 0.00                                       | .                                    | 2.69        | Similar                    |
| HEARTLAND REGIONAL MEDICAL CENTER *          | MARION            | .  | .                                     | .  | .  | .                                    | .           | Not Available              |
| INGALLS MEMORIAL HOSPITAL                    | HARVEY            | 0  | 36                                    | 0.47   | .  | .                                    | .           | Not Available              |
| JOHN H STROGER JR HOSPITAL OF COOK COUNTY ** | CHICAGO           | 0  | 81                                    | 1.21   | 0.00                                       | .                                    | 3.04        | Similar                    |
| LOYOLA GOTTLIEB MEMORIAL HOSPITAL            | MELROSE PARK      | 0  | 57                                    | 0.51   | .  | .                                    | .           | Not Available              |
| LOYOLA UNIVERSITY MEDICAL CENTER             | MAYWOOD           | 6  | 307                                   | 4.92   | 1.22                                       | 0.49                                 | 2.54        | Similar                    |
| MEMORIAL HOSPITAL **                         | CARTHAGE          | 0  | 136                                   | 2.19   | 0.00                                       | .                                    | 1.68        | Similar                    |
| MEMORIAL HOSPITAL OF CARBONDALE **           | CARBONDALE        | 0  | 157                                   | 2.28   | 0.00                                       | .                                    | 1.62        | Similar                    |
| MEMORIAL MEDICAL CENTER                      | SPRINGFIELD       | 2  | 239                                   | 3.03   | 0.66                                       | 0.08                                 | 2.38        | Similar                    |
| MERCY HOSPITAL AND MEDICAL CENTER            | CHICAGO           | 0  | 24                                    | 0.37   | .  | .                                    | .           | Not Available              |
| METROSOUTH MEDICAL CENTER                    | BLUE ISLAND       | 3  | 38                                    | 0.43   | .  | .                                    | .           | Not Available              |
| MOUNT SINAI HOSPITAL                         | CHICAGO           | 0  | 44                                    | 0.55   | .  | .                                    | .           | Not Available              |
| NORTHSHORE UNIV HS EVANSTON HOSPITAL **      | EVANSTON          | 0  | 108                                   | 1.73   | 0.00                                       | .                                    | 2.13        | Similar                    |
| NORTHSHORE UNIV HS HIGHLAND PARK HOSPITAL    | HIGHLAND PARK     | 0  | 34                                    | 0.44   | .  | .                                    | .           | Not Available              |
| NORTHSHORE UNIV HS SKOKIE HOSPITAL *         | SKOKIE            | .  | .                                     | .  | .  | .                                    | .           | Not Available              |
| NORTHWEST COMMUNITY HOSPITAL **              | ARLINGTON HEIGHTS | 0  | 154                                   | 1.49   | 0.00                                       | .                                    | 2.47        | Similar                    |
| NORTHWESTERN MEMORIAL HOSPITAL               | CHICAGO           | 1  | 229                                   | 3.48   | 0.29                                       | 0.01                                 | 1.60        | Similar                    |
| OSF SAINT ANTHONY MEDICAL CENTER             | ROCKFORD          | 1  | 143                                   | 1.72   | 0.58                                       | 0.02                                 | 3.25        | Similar                    |
| OSF SAINT FRANCIS MEDICAL CENTER **          | PEORIA            | 0  | 177                                   | 2.82   | 0.00                                       | .                                    | 1.31        | Similar                    |
| OSF ST JOSEPH MEDICAL CENTER                 | BLOOMINGTON       | 1  | 58                                    | 0.62   | .  | .                                    | .           | Not Available              |
| PALOS COMMUNITY HOSPITAL                     | PALOS HEIGHTS     | 1  | 157                                   | 1.53   | 0.66                                       | 0.02                                 | 3.65        | Similar                    |
| PRESENCE COVENANT MEDICAL CENTER             | URBANA            | 0  | 71                                    | 0.68   | .  | .                                    | .           | Not Available              |
| PRESENCE MERCY MEDICAL CENTER                | AURORA            | 2  | 124                                   | 1.42   | 1.41                                       | 0.17                                 | 5.10        | Similar                    |

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|   |               |  |                                       |  |  | Lower Bound <sup>g</sup>             | Upper Bound |                            |
| PRESENCE RESURRECTION MEDICAL CENTER              | CHICAGO       | 1  | 147                                   | 1.87   | 0.53                                       | 0.01                                 | 2.98        | Similar                    |
| PRESENCE SAINT FRANCIS HOSPITAL                   | EVANSTON      | 0  | 45                                    | 0.52   | .  | .                                    | .           | Not Available              |
| PRESENCE SAINT JOSEPH HOSPITAL CHICAGO            | CHICAGO       | 0  | 41                                    | 0.36   | .  | .                                    | .           | Not Available              |
| PRESENCE SAINT JOSEPH HOSPITAL ELGIN              | ELGIN         | 0  | 33                                    | 0.38   | .  | .                                    | .           | Not Available              |
| PRESENCE SAINT JOSEPH MEDICAL CENTER **           | JOLIET        | 0  | 175                                   | 2.23   | 0.00                                       | .                                    | 1.66        | Similar                    |
| PRESENCE SAINTS MARY AND ELIZABETH MEDICAL CENTER | CHICAGO       | 0  | 42                                    | 0.69   | .  | .                                    | .           | Not Available              |
| PROCTOR COMMUNITY HOSPITAL *                      | PEORIA        | .  | .                                     | .  | .  | .                                    | .           | Not Available              |
| RIVERSIDE MEDICAL CENTER                          | KANKAKEE      | 3  | 114                                   | 1.23   | 2.45                                       | 0.51                                 | 7.15        | Similar                    |
| ROCKFORD MEMORIAL HOSPITAL **                     | ROCKFORD      | 0  | 65                                    | 1.14   | 0.00                                       | .                                    | 3.24        | Similar                    |
| RUSH UNIVERSITY MEDICAL CENTER **                 | CHICAGO       | 0  | 120                                   | 1.68   | 0.00                                       | .                                    | 2.20        | Similar                    |
| RUSHCOPLEY MEDICAL CENTER                         | AURORA        | 1  | 111                                   | 1.87   | 0.53                                       | 0.01                                 | 2.97        | Similar                    |
| ST ELIZABETHS HOSPITAL **                         | BELLEVILLE    | 0  | 105                                   | 1.65   | 0.00                                       | .                                    | 2.24        | Similar                    |
| ST JOHNS HOSPITAL                                 | SPRINGFIELD   | 1  | 310                                   | 4.91   | 0.20                                       | 0.01                                 | 1.14        | Similar                    |
| SWEDISH COVENANT HOSPITAL                         | CHICAGO       | 1  | 102                                   | 1.70   | 0.59                                       | 0.02                                 | 3.28        | Similar                    |
| SWEDISHAMERICAN HOSPITAL                          | ROCKFORD      | 1  | 133                                   | 1.49   | 0.67                                       | 0.02                                 | 3.74        | Similar                    |
| THE UNIVERSITY OF CHICAGO MEDICAL CENTER **       | CHICAGO       | 0  | 114                                   | 1.69   | 0.00                                       | .                                    | 2.18        | Similar                    |
| UNITYPOINT HEALTH METHODIST                       | PEORIA        | 1  | 83                                    | 1.28   | 0.78                                       | 0.02                                 | 4.35        | Similar                    |
| UNITYPOINT HEALTH TRINITY ROCK ISLAND **          | ROCK ISLAND   | 0  | 160                                   | 2.02   | 0.00                                       | .                                    | 1.83        | Similar                    |
| UNIVERSITY OF ILLINOIS HOSPITAL AT CHICAGO        | CHICAGO       | 0  | 40                                    | 0.50   | .  | .                                    | .           | Not Available              |
| VANGUARD MACNEAL HOSPITAL                         | BERWYN        | 1  | 82                                    | 1.72   | 0.58                                       | 0.02                                 | 3.25        | Similar                    |
| VANGUARD WEISS MEMORIAL HOSPITAL *                | CHICAGO       | .  | .                                     | .  | .  | .                                    | .           | Not Available              |
| VANGUARD WEST SUBURBAN MEDICAL CENTER             | OAK PARK      | 0  | 26                                    | 0.38   | .  | .                                    | .           | Not Available              |

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| VANGUARD WESTLAKE HOSPITAL * | MELROSE PARK  | .  | .                                     | .  | .  | .                                    | .           | Not Available              |
| VISTA MEDICAL CENTER EAST    | WAUKEGAN      | 0  | 54                                    | 0.55   | .  | .                                    | .           | 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.