

PEER GROUPING METHODOLOGY – URBAN HOSPITALS

OBJECTIVE:

Peer grouping aims to create groups of similar hospitals for comparison purposes.

METHODOLOGY:

Seven measures were used to generate a score that reflects the size, patient mix and complexity of services for each urban hospital. This score was used to define peer groups. Specialty hospitals (pediatric, rehabilitation, behavioral health, non-acute, long-term care facilities and government hospitals) were excluded from the analysis.

MEASURES:

1. Number of Beds

Points were assigned based upon the number of hospital beds. The data source was <http://www.ahd.com>.

| # of Beds | Points |
|-----------|--------|
| ≥500 | 10 |
| 400-499 | 7 |
| 300-399 | 5 |
| 200-299 | 3 |
| 100-199 | 1 |
| 1-99 | 0 |

2. Case Mix Index

The Medicare Case Mix Index **methodology** and IDPH all-payer data for Federal fiscal year 2007 were used to calculate the case mix index.

The case mix index was calculated using calculated case weights from CMS (Center for Medicare & Medicaid Services) DRG case weight table for Federal fiscal year 2007 after excluding Medicaid and transfers from another acute care facility. The case mix index was modified by DRG adjustment and a single weighted case mix index was then calculated using the ratio of unadjusted to adjusted total cost using the Case Weight report from WebMD Quality Services.

This adjusted case mix index for each hospital was multiplied by 15 to determine the number of points.

3. Resident to Bed Ratio

This measure was used as an indicator of the intensity of the teaching program. The number of residents was obtained from the Accreditation Council for Graduate Medical Education (<http://www.acgme.org>) and American Osteopathic Association <https://www.do-online.org> web sites.

| Ratio | Points |
|-----------|--------|
| ≥0.50 | 10 |
| 0.30-0.49 | 7 |
| 0.20-0.29 | 5 |
| 0.1-0.19 | 3 |
| 0.01-0.09 | 1 |

Hospitals that have residents but are not listed as a primary sponsoring institution on the ACGME or AOA websites will receive two points for this measure.

4. Transplants

All solid organ transplants except kidney were included. The data source was <http://www.ustransplant.org>. The measure used was number of the transplants (defined above) performed between 1/1/07 and 12/31/07.

| Volume | Points |
|--------|--------|
| ≥50 | 10 |
| 25-49 | 7 |
| 1-24 | 3 |

5. Open Heart Surgery

Points were assigned for the volume of open-heart surgery. The source was the Illinois All Payer Data for Federal fiscal year 2007. DRGs 104 through 106, 108, 110, 111 and 547 through 550 were used to obtain the number of cases.

| Volume | Points |
|---------|--------|
| ≥400 | 10 |
| 300-399 | 7 |
| 200-299 | 5 |
| 100-199 | 3 |
| 50-99 | 1 |
| 0-49 | 0 |

6. Trauma Centers

Points were assigned to hospitals with trauma center designation. The data sources were the Illinois Hospital Association (IHA) web site (<http://www.ihatoday.org>) and Illinois Department of Public Health (<http://www.idph.state.il.us/ems/traumaregions.htm>).

| Level | Points |
|----------|--------|
| Level I | 10 |
| Level II | 6 |

7. Neonatal ICUs

Points were assigned to hospitals with neonatal ICUs based upon the ICU level. The data source was the Illinois Hospital Association (IHA) web site (<http://www.ihatoday.org>).

| Level | Points |
|-----------|--------|
| Level III | 10 |
| Level II+ | 5 |
| Level II | 3 |
| Level 0 | 0 |

SUMMARY:

Points were assigned for each of the seven measures. Urban hospitals were assigned to one of five peer groups on the basis of the overall point score. Peer groups are listed on the following pages.

LIST OF URBAN HOSPITALS BY PEER GROUPS

| Hospital Name | 2009 Peer Group | City |
|---|-----------------|-------------------|
| Loyola University Medical Center | 1 | Maywood |
| Northwestern Memorial Hospital | 1 | Chicago |
| Rush University Medical Center | 1 | Chicago |
| The University of Chicago Hospitals & Health System | 1 | Chicago |
| | | |
| ADVOCATE Christ Hospital | 2 | Oak Lawn |
| ADVOCATE Good Samaritan | 2 | Downers Grove |
| ADVOCATE Illinois Masonic Hospital | 2 | Chicago |
| ADVOCATE Lutheran General Hospital | 2 | Park Ridge |
| Alexian Brothers Medical Center | 2 | Elk Grove Village |
| Carle Foundation Hospital | 2 | Urbana |
| Memorial Medical Center -Springfield | 2 | Springfield |
| NorthShore University HealthSystem | 2 | Evanston |
| OSF St. Francis Hospital - Peoria | 2 | Peoria |
| Resurrection Medical Center | 2 | Chicago |
| St. Francis Hospital - Evanston | 2 | Evanston |
| St. James Hospital & Health Centers | 2 | Olympia Fields |
| St. John Hospital - Springfield | 2 | Springfield |
| Trinity Regional Health System - West Campus | 2 | Rock Island |
| University of Illinois Medical Center at Chicago | 2 | Chicago |
| | | |
| Adventist Hinsdale Hospital | 3 | Hinsdale |
| Adventist La Grange Memorial Hospital | 3 | LaGrange |
| ADVOCATE Condell Medical Center | 3 | Libertyville |
| ADVOCATE Good Shepherd | 3 | Barrington |
| Blessing Hospital | 3 | Quincy |
| Bromenn Regional Medical Center | 3 | Normal |
| Central DuPage Hospital | 3 | Winfield |
| Edward Hospital | 3 | Naperville |
| Elmhurst Memorial Hospital | 3 | Elmhurst |
| Gottlieb Memorial Hospital | 3 | Melrose Park |
| MacNeal Hospital | 3 | Berwyn |
| Memorial Hospital - Belleville | 3 | Belleville |
| Methodist Medical Center Of Illinois | 3 | Peoria |
| MetroSouth Medical Center | 3 | Blue Island |
| Mount Sinai Hospital | 3 | Chicago |
| Northwest Community Hospital | 3 | Arlington Hts |
| OSF St. Anthony Hospital - Rockford | 3 | Rockford |
| OSF St. Joseph Hospital - Bloomington | 3 | Bloomington |
| PROVENA Mercy Center for Health Care | 3 | Aurora |
| PROVENA St. Joseph - Elgin | 3 | Elgin |
| PROVENA St. Joseph Med Ctr - Joliet | 3 | Joliet |
| Riverside Medical Center | 3 | Kankakee |
| Rush North Shore Medical Center | 3 | Skokie |
| Rush-Copley Medical Center | 3 | Aurora |
| Saint Joseph Hospital - Chicago | 3 | Chicago |
| Sherman Hospital | 3 | Elgin |
| St. Elizabeth Hospital - Belleville | 3 | Belleville |
| Swedish American Hospital | 3 | Rockford |

| Hospital Name | 2009 Peer Group | City |
|---|-----------------|------------------|
| Adventist Bolingbrook Hospital | 4 | Bolingbrook |
| Centegra Hospital - McHenry | 4 | McHenry |
| Centegra Hospital - Woodstock | 4 | Woodstock |
| Decatur Memorial Hospital | 4 | Decatur |
| Delnor Community Hospital | 4 | Geneva |
| Genesis Medical Center, Illini Campus | 4 | Silvis |
| Ingalls Memorial Hospital | 4 | Harvey |
| Lake Forest Hospital | 4 | Lake Forest |
| Mercy Hospital | 4 | Chicago |
| Palos Community Hospital | 4 | Palos Heights |
| PROVENA Covenant Medical Center | 4 | Urbana |
| PROVENA St. Mary's Hospital - Kankakee | 4 | Kankakee |
| Silver Cross Hospital | 4 | Joliet |
| St. Alexius Medical Center | 4 | Hoffman Estates |
| St. Mary of Nazareth Hospital Center | 4 | Chicago |
| Swedish Covenant Hospital | 4 | Chicago |
| Weiss Memorial Hospital | 4 | Chicago |
| West Suburban Medical Center | 4 | Chicago |
| | | |
| Adventist Glen Oaks Hospital | 5 | Glendale Heights |
| ADVOCATE South Suburban Hospital | 5 | Hazel Crest |
| ADVOCATE Trinity Hospital | 5 | Chicago |
| FHN Memorial Hospital | 5 | Freeport |
| Gateway Regional Medical Center | 5 | Granite City |
| Holy Cross Hospital | 5 | Chicago |
| Illinois Valley Community Hospital | 5 | Peru |
| Jackson Park Hospital | 5 | Chicago |
| Kenneth Hall Regional Hospital | 5 | East St. Louis |
| Little Company of Mary Hospital | 5 | Evergreen Park |
| Loretto Hospital | 5 | Chicago |
| Methodist Hospital of Chicago | 5 | Chicago |
| Norwegian American Hospital | 5 | Chicago |
| Our Lady of the Resurrection Hospital | 5 | Chicago |
| Proctor Hospital | 5 | Peoria |
| PROVENA United Samaritan Medical Center | 5 | Danville |
| Provident Hospital | 5 | Chicago |
| Roseland Community Hospital | 5 | Chicago |
| Rush Oak Park Hospital | 5 | Oak Park |
| Sacred Heart Hospital | 5 | Chicago |
| Saint Anthony Hospital | 5 | Chicago |
| South Shore Hospital | 5 | Chicago |
| St. Bernard Hospital & Health Care | 5 | Chicago |
| St. Elizabeth Hospital - Chicago | 5 | Chicago |
| St. Mary's Hospital - Decatur | 5 | Decatur |
| Thorek Hospital & Medical Center | 5 | Chicago |
| Touchette Regional Hospital | 5 | Centreville |
| Vista Medical Center - East | 5 | Waukegan |
| Westlake Hospital | 5 | Melrose Park |