

Millennium Park, Chicago, IL

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2013 Contributors

The AJRR would like to thank our 2013 contributors for their support.

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AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS

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Did You Know?

Many hospitals are excited to promote their affiliation with the AJRR. As a result, we have developed a few items which hospitals may use to promote this collaboration. After we receive signed contracts from a hospital, we will send along an "AJRR Participant" logo for use on brochures, newsletters, or websites. For those hospitals that would like to issue a press release, a template document will be included to tailor for their Surgeon Champion and local community. You will also see "AJRR Partner" logos appearing on materials belonging to our contributors and software partners. If you did not receive these materials, but would like to use them at your participating hospital, please contact Caryn Etkin at etkin@ajrr.net or 847-430-5032.



The AJRR Visits Capitol Hill

by Jeffrey Knezovich

You just can't sit still and expect everything to go your way. The AJRR leadership is advancing the mission of the Registry by initiating conversations with federal legislative and agency staffs. Dr. William Maloney, Chairman of the AJRR Board of Directors, expressed early in his administration that we need to get the message out about our plan to create the largest hip and knee arthroplasty registry in the United States. This means we will need the cooperation of all decision makers to build a coalition that will advance our cause.

In recent months, the AJRR has responded to federal proposed legislation that will affect the future expansion of registries in this country. Many of our international registry colleagues have mandates from their governments requiring 100% participation. The US model for national registries is for individuals and institutions wishing to participate to submit data voluntarily. With that, the AJRR has made comments on two federal requests for information pertaining to establishment of "Qualified Clinical Data Registries". We want assurances from the Centers for Medicare & Medicaid Services (CMS) that we can do our business of collecting data without barriers. A possible enrollment barrier is the lack of Federal support or incentives for hospital participation. Further, we seek support from the Office for Human Research Protections to clarify its ruling to hopefully reduce confusion about whether the Federal Policy for the Protection of Human Subjects or the "Common Rule" applies to clinical data registries or the individuals/entities submitting data to registries.

Let me make it clear that the AJRR is not a lobbying body. It is our hope that we can educate and provide quality information about hip and knee arthroplasty. On Tuesday, September 10, AJRR leaders assembled in Washington, DC, to take their message to Capitol Hill and federal agencies. AJRR Staff accompanied Board Directors on official visits to the Food and Drug Administration (FDA), CMS, and 9 legislators' offices. Dr. J. Wesley Mesko, AJRR Director, said of the meetings, "Registries are no longer a hobby of a few, it is now recognized by the federal government as essential to understanding the value of total hip and knee replacement. It was helpful to have the opportunity to seek support of our legislators on behalf of the AJRR."

So what did it take to get to that point? Planning began shortly after the March 2013 Board of Directors meeting. A case had to be made for our visits. The AJRR Regulatory Committee, chaired by Dr. E. Anthony Rankin, met to consider the issues and designed an agenda that would guide the development of resource documents, talking points, and finally the execution of a plan. Dr. Kevin Bozic and Mr. Eric Rugo, both AJRR Directors, assisted in writing the final script for the visitations. Staff was instrumental in organizing the meeting schedules and bringing the event to fruition.

At the end of the day, the AJRR participants concluded that their efforts on the Hill were meaningful and should play an important role in our future deliberations as a Board. As Dr. Bozic stated, "These visits gave AJRR leaders an opportunity to engage key regulatory and legislative staff on issues related to the challenges and opportunities that face the AJRR going forward, and to begin to build relationships and establish a dialogue with the people who will be shaping policy for use of clinical data registries in the United States." We better understand the need for a government relations policy and how we might commit dollars to an ongoing program. Especially important is our ongoing relationships with many of the federal agencies including the FDA and CMS. "I found the visit to the FDA very informative. It is helpful to learn the complexity of the issues around registries and the great interest around AJRR and what it is accomplishing," said Dr. Patience White, Public Advisory Board representative. It is certainly important that we continue to nurture these relationships so that we can advance the good name of this Registry and promote the need for an effective national registry system.



Some of the AJRR Representatives who met with legislation and agency staff in Washington, DC, included from left: Pamela L. Plouhar, PhD; J. Wesley Mesko, MD; David G. Lewallen, MD



Champions of the Quarter

by Susan Hobson

This Fall, AJRR has selected two of our colleagues as Champions of the Quarter. These Champions have been instrumental in signing on multiple hospitals in their networks. **Cecily Froemke, MS**, is Program Manager, Information & Research Services with the Providence Orthopedic Institute at Providence Health & Services in Portland, Oregon. **Mark Thiel, OTR, MSM**, is the System Value Stream Director of Development for Orthopedics and Spine and ThedaCare in Appleton, Wisconsin.

Ms. Froemke who coordinates registry, patient-reported measures, and research-related projects for the Total Joint program in Oregon, directed AJRR enrollment for all 8 Providence Oregon hospitals. She also facilitated discussions with Providence locations in Southern California, which recently joined AJRR. With her IT expertise, she has been able to streamline data submission for her entire system. Ms. Froemke received her Master's Degree and is a candidate for her PhD in Systems Science from Portland State University.



Cecily Froemke, MS
Providence Orthopaedic Institute

In his role at ThedaCare, Mr. Thiel is responsible for researching and developing new services, processes, and products that can better meet the needs of the customer and organization, focusing on healthcare performance and patient outcomes. He engaged all 5 ThedaCare locations in Northeast Wisconsin and coordinated their data submission to the AJRR. Mark holds a Bachelor's Degree in occupational therapy from the University of Wisconsin-Madison and a Master's of Science in Management from Cardinal Stritch University. He also holds a Lean Bronze-Level certification.



Mark Thiel, OTR, MSM
ThedaCare



AJRR's Newest Participants

- Appleton Medical Center
 - Concord Hospital
- Cuyuna Regional Medical Center
 - Evanston Hospital
 - Glenbrook Hospital
 - Highland Park Hospital
- Marquette General Hospital
- Martha Jefferson Hospital
- Mission Hospital (NC)
- Morristown Medical Center
- Mountain View Regional Medical Center
 - New London Family Medical Center
- Providence Holy Cross Medical Center
- Providence Little Company of Mary San Pedro
- Providence Little Company of Mary Torrance
- Providence Saint Joseph Medical Center
 - Providence Tarzana Medical Center
 - Riverside Medical Center (WI)
 - Rockingham Memorial Hospital
 - Saint Alphonsus Medical Center—Baker City
- Saint Alphonsus Regional Medical Center
- Saint Alphonsus Medical Center—Nampa
- Saint Alphonsus Medical Center—Ontario
 - Sentara CarePlex Hospital
 - Sentara Leigh Hospital
 - Sentara Norfolk Hospital
- Sentara Northern Virginia Medical Center
 - Sentara Obici Hospital
 - Sentara Princess Anne Hospital
- Sentara Virginia Beach General Hospital
- Sentara Williamsburg Regional Medical Center
 - Shawano Medical Center
 - Skokie Hospital
- Texas Health Presbyterian Hospital—Plano
 - Texas Spine and Joint Hospital, Ltd.
 - Theda Clark Medical Center

**EXTRA!
EXTRA!
READ ALL
ABOUT IT!**



Breaking News!

- In June, AJRR Director E. Anthony Rankin, MD, was named Interim Chief Medical Officer of Providence Hospital in Washington, DC. Dr. Rankin has been Chief of Orthopaedic Surgery at Providence since 1977.
- Some of our participants have asked us if we could facilitate discussions with staff from other hospitals regarding completion of their IRB application. While AJRR is more than happy to assist with completion of IRB documents (if your hospital deems an application necessary), we understand that talking with peers can be very beneficial as well. Our colleagues led us to think that a participant

listserv would be beneficial for a variety of topics. Since we will soon be rolling out our data reporting modules and other reporting mechanisms, there might arise even more questions. We anticipate conversations might revolve around the legal agreements, HIPAA and HITECH compliance, and completing your hospital's data security assessments. If you are interested in joining a user group listserv, please contact us at info@ajrr.net and we'll sign you up.

- The terms of some of our Board of Directors will be coming to an end on December 31, 2013. We would like to acknowledge the years of support and invaluable contributions of Thomas Barber, MD; Kevin J. Bozic, MD, MBA; Catherine MacLean, MD, PhD; J. Wesley Mesko, MD; and Patience White, MD, MA. All of these Directors were integral to the development and launching of the AJRR and were recognized at the Board of Directors meeting on September 11, 2013. We wish them all the best in their future endeavors and look forward to new Directors joining us in 2014.

- On September 20, the U.S. Food and Drug Administration announced a final rule for the unique device identification system (UDI). The UDI system will provide a uniform way to identify medical devices. For more details please see: <http://www.fda.gov/NewsEvents/Newsroom/PressAnnouncements/ucm369276.htm>.

The following articles by our colleague Natalia Wilson, MD, MPH, address UDI issues.

Wilson NA, Drozda J. **Value of unique device identification in the digital health infrastructure.** *JAMA*. May 22/29, 2013; 309(20): 2107-2108. doi: 10.1001/jama.2013.5514

Wilson NA, Jehn M, York S, Davis CM. **Revision total hip and knee arthroplasty implant identification: implications for use of unique device identification 2012 AAHKS member survey results.** *J Arthroplasty*. July 29, 2013 [epub ahead of print]. doi: <http://dx.doi.org/10.1016/j.arth.2013.06.027>



In attendance at the September Board Meeting were from left: J. Wesley Mesko, MD; Patience White, MD, MA; Kevin Bozic, MD, MBA



Student Intern 2013 — 2014

AJRR is pleased to once again be a practicum site for a student from the DePaul University Master of Public Health (MPH) program. During the 2013-14 academic year, Allison Stunard will be working on a variety of research-related projects with the AJRR team. We anticipate that the majority of her work will

focus on the implementation of the Level 2/Level 3 pilot study, specifically development and analysis of hospitals surveys pertaining to data capture for these additional levels.

A native of the Chicago area, Allison has a Bachelor of Arts in Communication with a minor in Chemistry from the University of Illinois at Urbana-Champaign. Since May 2009, Allison has been a Senior Certified Pharmacy Technician with Walgreens. Allison is interested in integrating clinical treatment, preventative measures, and social support to improve health outcomes and medication compliance.



Publications of Interest

O'Neill BJ, Nugent M, Cashman JP, O'Flanagan SJ, Keogh P, Kenny PJ. **The Irish National Joint Registry: where are we now?** *Irish Journal of Medical Science*. June 19, 2013 [epub ahead of print]. doi: 10.1007/s11845-013-0979-x

Meftah M, Klingenstein GG, Yun RJ, Ranawat AS, Ranawat CS. **Long-term performance of ceramic and metal femoral heads on conventional polyethylene in young and active patients: A matched-pair analysis.** *J Bone Joint Surg Am*. July 3, 2013; 95(13):1193-1197. doi: 10.2106/JBJS.L.00432

Sadoghi P, Andreas Leithner A, Labek G. **Overcoming Boundaries of worldwide joint arthroplasty registers: the European Arthroplasty Register minimal dataset.** *J Arthroplasty*. September 2013; 28(8): 1327-1328.

Sun SNM, Gillott E, Bhamra J, Briggs T. **Implant use for primary hip and knee arthroplasty: are we getting it right the first time?** *J Arthroplasty*. June 2013; 28(6): 908-912.

Wyatt MC, Frampton C, Horne JG, Devane P. **Mobile-versus fixed-bearing modern total knee replacements – which is the more patella-friendly design? The 11-year New Zealand Joint Registry study.** *Bone Joint Res*. July 2013; 2(7): 129-131. doi: 10.1302/2046-3758.27.2000159.

Bozic KJ, Belkora J, Chan V, Youm J, Zhou T, Dupaix J, Bye AN, Braddock CH, Chenok KE, Huddleston JI. **Shared decision making in patients with osteoarthritis of the hip and knee results of a randomized controlled trial.** *J Bone Joint Surg Am*. September 18, 2013; 95(18):1633-1639.

Brinkman JM, Bubra PS, Walker P, Walsh W, Bruce W. **Mid-Term results using a medial pivot total knee replacement – single centre, single surgeon outcome compared to the Australian National Joint Registry Data.** *Bone Joint J*. 2013; 95-B(S15): 24.

Elson LC, Barr CJ, Chandran SE, Hansen VJ, Malchau H, Kwon Y-M. **Are morbidly obese patients undergoing total hip arthroplasty at an increased risk for component malpositioning?** *J Arthroplasty*. September 2013; 28(8) Supplement: 41-44.

Gioe TJ. **Shared decision making in orthopaedic surgery: more than two to tango?: Commentary on an article by Kevin J. Bozic, MD, MBA, et al.: “shared decision making in patients with osteoarthritis of the hip and knee. Results of a randomized controlled trial”** *J Bone Joint Surg Am*. September 18, 2013; 95(18):E136 1-2.

Registry Highlights

by Caryn Etkin

ICOR

International Consortium of
Orthopaedic Registries

International Consortium of Orthopaedic Registries (ICOR) is sponsored by the U.S. Food and Drug Administration (FDA) Center for Devices and Radiological Health. It is a collaborative effort of over 30 orthopaedic registries from across the world. AJRR Medical Director, David Lewallen, MD, serves on the ICOR Executive Committee.

ICOR's purpose is to facilitate collaborative efforts between registries. They have developed an infrastructure to support these collaborations along with a distributed network for data analysis. At this time, ICOR is focusing on three main projects:

- Development of worldwide implant (prosthesis) database
- Comparison of bearings used in stemmed hip replacement
- Comparison of various fixed and mobile bearings used in knee replacement

Early results of these projects were presented in June at the 2nd International Congress of Arthroplasty Registries. At this time, AJRR has particular interest in ICOR's development of a worldwide implant database. As we seek to understand the American experience with implants, it is critical for AJRR to analyze implant components in a number of ways. AJRR has been working closely with our colleagues from ICOR to expand component attribute information such as component sizes, materials, and descriptions.

For more information about ICOR:

Sedrakyan A, Paxton EW, Phillips C, Namba R, Funahashi T, Barber T, Sculco T, Padgett D, Wright T, Marinac-Dabic D. **The International Consortium of Orthopaedic Registries: overview and summary.** *J Bone Joint Surg Am.* Dec 21, 2011; 93 Suppl 3:1-12. doi: 10.2106/JBJS.K.01125

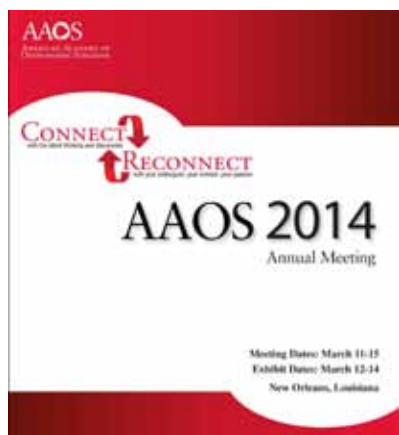
Upcoming Events



AAHKS 23rd Annual Meeting

November 8-10, 2013

Sheraton Dallas Hotel, Dallas, TX



*The International Society of Arthroplasty Registries
in conjunction with
The American Joint Replacement Registry
and Massachusetts General Hospital
present*

**3rd International Congress of
Arthroplasty Registries**
Boston, Massachusetts
May 31 - June 2, 2014

Online Registration Opens
October 1, 2013

<http://www.isarhome.org>



AAHKS Annual Meeting

Dallas, TX

November 8-10, 2013

AAOS Annual Meeting

New Orleans, LA

March 11 - 15, 2014

3rd International Congress of Arthroplasty Registries

Boston, MA

May 31 - June 2, 2014

AJRR to launch pilot project of Level 2 and Level 3 systems

In the 4th quarter of 2013, AJRR will be launching a pilot project of our Level 2 and Level 3 data systems. As many of you know, we have been diligently working to expand our reporting capabilities. With the addition of the Level 2 elements, AJRR will be able to offer risk-adjusted data to our partners and provide more meaningful reports and dashboards. Level 3 Patient-Reported Outcome Measures (PROMs) will allow hospitals the opportunity to understand more about the outcomes experienced by their patients.



The pilot program intends to assess EHR availability of Level 2 data elements. Additionally, we will also be seeking hospitals and practices interested in testing workflow models for completing PROMs tools with their patients.

Level 2 elements will include: Expanded Procedural Information, Physician Quality Reporting System (PQRS) Quality Measures, Operative and Post-Operative Complications, baseline scores of PROMs (if available), Pre-op risk factors, comorbidities, and American Society of Anesthesiologists (ASA) Scores.

The following PROMs instruments will be available for free to providers who wish to use them with their patients: SF-36, Harris Hip Score, Hip disability and Osteoarthritis Outcome Score (HOOS), Knee injury and Osteoarthritis Outcome Score (KOOS), Oxford Hip Score, Oxford Knee Score, Knee Society Knee Scoring System Pre-OP and Post-OP.

We will be able to provide modified Western Ontario and McMaster Universities Osteoarthritis Index (WOMAC) scores from the HOOS and KOOS instruments. Lastly, we will be able to accept the EQ-5D-3L and EQ-5D-5L final scores, but not provide the instruments.

EHR Vendors collaborate with the AJRR

One of the AJRR's fundamental tenets is to reduce the data submission burden on hospital staff where possible. To address this goal, the AJRR has been working with "best of breed" orthopaedic charting vendors and with Electronic Health Record (EHR) vendors. With these collaborations, AJRR hopes to facilitate direct vendor submission of AJRR Level 1 data (orthopaedic procedures) and reporting modules that hospital staff can utilize to extract and aggregate AJRR Level 1 data. The hospital's ability to extract Level 1 data directly from their EHR system has the added benefit of minimizing transcriptional data errors.

AJRR currently has agreements with 3 orthopaedic charting vendors (InVivoLink, ORTech, and Oberd). Assuming that the hospital utilizes these vendors' hosting services, hospitals can request that these vendors send their procedural data directly to the AJRR. If your hospital utilizes these vendors for procedural data charting, please contact the AJRR for further information on how to automate your AJRR submissions.

AJRR is also collaborating with Epic and Cerner to create AJRR reports that extract and aggregate the AJRR Level 1 data into a file that can be submitted to the AJRR by your hospital's IT staff. The Epic prerequisites are the use of Epic EHR system and OpTime charting software. Cerner is currently testing a report that it will make available to Cerner users in the future. The Cerner report requires Millenium and SurgiNet.

AJRR continues to prioritize its efforts on vendor relationships to minimize the impact on hospital staff for existing and future participants. Again, for further information, please contact the AJRR.

AJRR Hospital Reporting and Dashboard Video Demonstration

The following link provides a demonstration of the AJRR reporting dashboards. The dashboards and reports are intended to provide our participants with quality metrics that can be used for a variety of improvement efforts. The reports and dashboards shown will be continuously improved over time with input from our stakeholders.

<http://www.youtube.com/watch?v=tgBDEXUsIL4>.

Testimonials: Hear what hospitals are saying about being an AJRR Participant.

“Being able to benchmark ourselves against other providers around the country is extremely important to us. Understanding variations in care, complications and utilization is critical to improving quality and patient safety while reducing costs and the American Joint Replacement Registry is yet another tool to help us along that road. Harnessing the power of a national registry is very exciting from a hospital management as well as a public health perspective. The AJRR staff have been very responsive to the questions we naturally had about joining and have worked with us every step of the way in the enrollment process.” — *Erin K. Almeda, Director, Orthopaedic Program Development, Concord Hospital, Concord, NH.*

“The University of Wisconsin Department of Orthopaedics and Rehabilitation actively pursued participation in the AJRR. We recognize the importance of data collection to improve patient outcomes at the local and national level. The AJRR will provide critical insight regarding implant performance that will guide clinicians and patients based on evidence-based medicine. We enthusiastically support this effort and plan to play a leadership role regarding data collection and outcome reporting.” — *Richard Illgen, MD, Co-director of the Arthritis and Joint Replacement Program, University of Wisconsin School of Medicine and Public Health, Madison, WI.*

“Monitoring and recording joint replacement outcomes has become essential to our internal quality improvement efforts and will soon become an expectation of the regulatory bodies, rating agencies and payers. Our Orthopaedic Surgeons recognized this and encouraged us to join the AJRR, which turned out to be a surprisingly easy process. We look forward to using AJRR data to continually improve our internal processes and to demonstrate to outside agencies the quality of our joint replacement program.” — *John Quinlivan, FACHE, President, Redmond Regional Health System; Chief Executive Officer, Redmond Regional Medical Center. Rome, GA.*

“Being certified by the Joint Commission as a Total Knee and Hip Replacement Center helped us through the AJRR approval process. September Cahue, at AJRR, was always available and helpful. As soon as we received corporate legal approval, the contract with AJRR was signed and we were granted entry into the Registry.” — *Edward Sweetser, MD, Mountain View Regional Medical Center, Las Cruces, NM.*

“Participating in the AJRR is a big step forward for patients in our local community and for the care of arthroplasty patients throughout the country. It provides a system for tracking patients and receiving feedback that will improve our understanding of joint replacements and patient outcomes. The AJRR is a necessary tool for achieving higher quality and efficiency in the care of this rapidly growing patient population.” — *Eric Boyden, MD, Medical Director of Arthroplasty Services for Renown Regional Medical Center; and Medical Director, Joint Replacement Services Program, St. Mary's Regional Medical Center both in Reno, NV.*

“We joined the AJRR at the request of one of our physicians. He took the time to explain the potential benefit to our patients. Once we understood the value, we didn't hesitate. The process was very straightforward as far as understanding the AJRR requirements. The vast majority of the required fields are easily exported from our EMR, so the ongoing effort will be simple to maintain.” — *R. Craig Lindsey, RN, MBA, MHA, CENP, Vice President of Clinical Services/Chief Nursing Officer, Park Ridge Health, Hendersonville, NC.*

“The AJRR is an extremely valuable initiative for the American arthroplasty community in that, when fully functional and widely adopted, the data generated will provide timely information on national trends of implant specific utilization and outcome. At Northwestern Memorial Hospital, we hope to use AJRR institution specific data, along with other in-house and national databanks, to benchmark our performance against national trends. Such data provides us the opportunity to increasingly crystallize our own quality initiatives. Furthermore, it is our hope that data generated from a fully functional national database may better inform health policy makers as we navigate the difficult waters of value-based decision making in arthroplasty care.” — *David W. Manning, MD, Director of Arthroplasty Service at Northwestern Memorial Hospital, Chicago, IL.*



AJRR Participating Hospitals

Advocate Christ Medical Center

Allegheny General Hospital

Allen Memorial Hospital

Aspirus Wausau Hospital

Aurora Health Care

- *Aurora Medical Center Grafton*
- *Aurora Medical Center Washington County*
- *Aurora Sinai Medical Center*
- *Aurora St. Luke's Medical Center*

Ball Memorial Hospital

Bayhealth Medical Center

- *Bayhealth Kent General*
- *Bayhealth Milford Memorial*

Benefis Hospital

Beth Israel Deaconess Medical Center

Blessing Health System

Bronson Methodist Hospital

Cabell Huntington Hospital

Carolinas Healthcare

- *Carolinas Medical Center*
- *Carolinas Medical Center–Lincoln*

Catholic Health

- *Kenmore Mercy Hospital*
- *Mercy Hospital of Buffalo*
- *Sisters of Charity Hospital*
- *Sisters of Charity Hospital–St. Joseph Campus*

Central Peninsula General Hospital

Cheyenne Regional Medical Center

CJW Medical Center

Cleveland Clinic

Concord Hospital

Conway Medical Center

Cuyuna Regional Medical Center

Denver Health and Hospital Authority

Doylestown Hospital

Eisenhower Medical Center

Fletcher Allen Health Care

Franciscan St. Francis Health

George Washington University Hospital

Grant Medical Center

Hancock Regional Hospital

Hanover Hospital

HealthEast Care System

- *St. John's Hospital*
- *St. Joseph Hospital*
- *Woodwinds Hospital*

Hospital of Central Connecticut

Houston Medical Center

Indiana Orthopaedic Hospital

Inova Mount Vernon Hospital

Jordan Hospital

Lakeland Regional Health System

Lancaster General Hospital

Maine Medical Center

Marquette General Hospital

Massachusetts General Hospital

McLaren Health Care

- *McLaren-Greater Lansing*
- *McLaren Orthopedic Hospital*

MedStar Union Memorial Hospital

Memorial Hermann Health System

- *Memorial Hermann Memorial City Medical Center*
- *Memorial Hermann Southwest Hospital*

Memorial Medical Center (IL)

Memorial Medical Center (MI)

Mercy Health System

- *Mercy Fitzgerald Hospital*
- *Mercy Philadelphia Hospital*
- *Mercy Suburban Hospital*
- *Nazareth Hospital*

Methodist Hospital (KY)

Mission Hospital (NC)

Morristown Medical Center

Mount Carmel New Albany

Mountain States Health Alliance

- *Indian Path Medical Center Hospital*
- *Johnson City Medical Center Hospital*
- *Johnston Memorial Hospital*

MountainView Regional Medical Center

New London Family Medical Center

Nix Health

North Mississippi Medical Center

NorthBay HealthCare

- *NorthBay Medical Center*
- *NorthBay VacaValley Hospital*

Northern Hospital of Surry County

NorthShore University HealthSystem

- *Evanston Hospital*
- *Glenbrook Hospital*
- *Highland Park Hospital*
- *Skokie Hospital*

Northwestern Memorial Hospital

Novant Health

- *Novant Health Brunswick Medical Center*
- *Novant Health Charlotte Orthopaedic Hospital*
- *Novant Health Forsyth Medical Center*
- *Novant Health Franklin Medical Center*
- *Novant Health Gaffney Medical Center*
- *Novant Health Huntersville Medical Center*
- *Novant Health Kernersville Medical Center*
- *Novant Health Matthews Medical*

Center

- *Novant Health Prince William Medical Center*

- *Novant Health Rowan Medical Center*

- *Novant Health Thomasville Medical Center*

NYU Hospital for Joint Diseases

Ochsner Clinic Foundation

- *Ochsner Baptist*
- *Ochsner Medical Center*
- *Ochsner Medical Center–Kenner*
- *Ochsner Medical Center–West Bank*

OrthoCarolina Research Institute

OrthoColorado Hospital

OSS Orthopaedic Hospital

Orthopaedic Hospital of Wisconsin

Palmetto Health

- *Baptist Easley Hospital*
- *Palmetto Health Baptist*
- *Palmetto Health Richland*

Park Ridge Health

PinnacleHealth Hospitals

- *Community General Osteopathic Hospital*
- *Harrisburg Hospital*

Pomona Valley Hospital Medical

Center

Providence Health & Services

- *Providence Holy Cross Medical Center*
- *Providence Hood River Memorial Hospital*
- *Providence Little Company of Mary San Pedro*
- *Providence Little Company of Mary Torrance*
- *Providence Medford Medical Center*
- *Providence Milwaukie Hospital*
- *Providence Newberg Hospital*
- *Providence Portland Medical Center*
- *Providence Saint Joseph Medical Center*
- *Providence Seaside Hospital*
- *Providence St. Peter Hospital*
- *Providence St. Vincent Medical Center*
- *Providence Tarzana Medical Center*
- *Providence Willamette Falls Medical Center*

Quincy Medical Center

Reading Hospital

Redmond Regional Medical Center

Renown Regional Medical Center

Roper St. Francis Healthcare

- *Bon Secours St. Francis Hospital*
- *Roper Hospital*
- *Roper St. Francis Mount Pleasant Hospital*

**Rush University Medical Center
Saint Alphonsus Health System**

- *Saint Alphonsus Medical Center–
Baker City*
- *Saint Alphonsus Regional Medical
Center*
- *Saint Alphonsus Medical Center–
Nampa*
- *Saint Alphonsus Medical Center–
Ontario*

**Saint Elizabeth Regional Medical
Center (NE)**

**Saint Mary’s Regional Medical
Center (NV)**

**San Antonio Community Hospital
Sanford Health**

- *Sanford Medical Center–Fargo*
- *Sanford USD Medical Center*

Schneck Medical Center

Scott & White Memorial Hospital

Sentara Healthcare

- *Martha Jefferson Hospital*
- *Rockingham Memorial Hospital*
- *Sentara CarePlex Hospital*
- *Sentara Leigh Hospital*
- *Sentara Norfolk Hospital*
- *Sentara Northern Virginia Medical
Center*
- *Sentara Obici Hospital*
- *Sentara Princess Anne Hospital*
- *Sentara Virginia Beach General
Hospital*
- *Sentara Williamsburg Regional
Medical Center*

Sharp Healthcare

- *Sharp Chula Vista Medical Center*
- *Sharp Coronado Hospital*
- *Sharp Grossmont Hospital*
- *Sharp Memorial Hospital*

Sibley Memorial Hospital

Southeast Georgia Health System

Sparrow Hospital

Spencer Hospital

St. Dominic Hospital (MS)

**St. Francis Hospital & Medical
Center (CT)**

St. Helena Hospital (CA)

St. John’s Medical Center (WY)

St. Luke’s Hospital (MO)

**St. Mary’s Hospital and Regional
Medical Center (CO)**

St. Peter’s Hospital (NY)

St. Vincent’s HealthCare (FL)

- *St. Vincent’s Medical Center
Riverside*

- *St. Vincent’s Medical Center
Southside*

- *St. Vincent’s Clay County*

**St. Vincent Infirmiry Medical
Center (AR)**

St. Vincent’s Medical Center (CT)

Stanford Hospital & Clinics

Swedish Health Services

- *Ballard Campus*
- *First Hill Campus*
- *Issaquah Campus*

**Texas Health Presbyterian Hospital–
Plano**

Texas Spine and Joint Hospital

ThedaCare

- *Theda Clark Medical Center*
- *Appleton Medical Center*
- *New London Family Medical Center*
- *Riverside Medical Center*
- *Shawano Medical Center*

**The Ohio State University–Wexner
Medical Center**

The Valley Hospital

Thomas Jefferson University Hospitals

Torrance Memorial Medical Center

Unity Hospital

**University of California, Los Angeles
Medical Center**

- *University of California Medical
Center, Santa Monica*
- *Ronald Reagan UCLA Medical Center*

**University of California San Francisco
Medical Center**

**University of Iowa Hospitals and
Clinics**

University of Michigan Health System

University of Utah Hospital

**University of Wisconsin Hospitals
and Clinics**

Valley Medical Center

Virginia Hospital Center

Virginia Mason Medical Center

Wellstar Health System

- *WellStar Cobb Hospital*
- *WellStar Douglas Hospital*
- *WellStar Kennestone Hospital*
- *WellStar Paulding Hospital*

Wesley Medical Center

Western Maryland Health System

William Beaumont Hospital

Winthrop-University Hospital

**WVU Healthcare Ruby Memorial
Hospital**

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