Opportunities with the American Joint Replacement Registry

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www.aaos.org/registries/ajrr
Our Speakers Today

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- AAOS: Chair of AJRR Steering Committee
- AJRR: Board or committee member
- American Association of Hip and Knee Surgeons: Board or committee member
- Arthroplasty Today: Editorial or governing board
- ICJR: Board or committee member
- Journal of Arthroplasty: Editorial or governing board

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- AJRR: Board or committee member
- Clinical Orthopaedics and Related Research: Editorial or governing board
- Operation Walk-Freedom to Move CEO: Board or committee member
- No financial conflicts of interest relevant to this presentation
Registry Effort Goals

- Collect unique clinical information demonstrating *real-world practice*
- Enable *performance measurement* by physicians for physicians
- Facilitate national registry-driven *quality improvement* programs
- Support novel scientific *research*
AAOS Family of Registries

AAOS Board of Directors

Registry Oversight Committee

Collaborative Registries
- Collaborative Registry with AANS & AAOS American Spine Registry (ASR)
  - Cervical Degenerative Spine
  - Lumbar Degenerative Spine
- American Joint Replacement Registry (AJRR)
  - Hip Arthroplasty
  - Knee Arthroplasty
  - Hip Fracture*
- Musculoskeletal Tumor Registry (MsTR)
  - Orthopaedic Sarcoma

AAOS Registries
- Shoulder & Elbow Registry (SER)
  - Shoulder Arthroplasty
  - Rotator Cuff Repair
  - Elbow Arthroplasty
  - Proximal Humerus*
- Fracture & Trauma Registry (FTR)
  - Hip Fracture*
  - Ankle Fracture*
  - Distal Radius Fracture*
  - Distal Femur Fracture*
  - Proximal Humerus*

*Modules in development.
Participation Across the Registries

Over 1,600 participating sites contracted and 13,000 registered surgeons across all 50 states.

Data representing over 2,400,000 procedures capturing over 40% of all US TJA volume annually.
American Joint Replacement Registry
AJRR Steering Committee

- Bryan D. Springer, MD, FAAOS – Chair
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- James I. Huddleston, III, MD, FAAOS – Vice Chair
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- Scott M. Sporer, MD, FAAOS – Secretary
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- Richard F. Seiden, Esq.
  Public Advisory Board (PAB) Representative
- James D. Slover, MD, FAAOS, MS
  NYU Langone Health
- Jeffrey B. Stambough, MD, FAAOS
  University of Arkansas
AJRR Data Element Overview

Two Modules: Hip Arthroplasty & Knee Arthroplasty

Procedure

Patient
• Name, Date of Birth, SSN
• Diagnosis (ICD-9/10, CPT)
• Gender
• Race/Ethnicity
• Height + Weight/BMI
• Payer Status

Site of Service
• Name and Address (TIN, NPI)

Surgeon
• Name (NPI)
• Trainee

Comorbidities and Complications
• Comorbidities (ICD-9/10, CPT)
• CJR Risk Variables
• Height + Weight/Body Mass Index
• Length of Stay
• American Society of Anesthesiologists Score
• Charlson Index
• Operative and Post-operative Complications

Patient-reported Outcomes

Recommended:
• PROMIS-10 Global
• VR-12
• HOOS Jr. /KOOS, Jr.

Also Accepted:
• SF-36 v1
• HOOS/KOOS
• Oxford Hip and Knee Scores
• Knee Society Knee Scoring System
• Harris Hip Score
• WOMAC (Modified via HOOS and KOOS)
• SF-12, EQ-5D, WOMAC (only accepting final scores)

This page is a summary of the AJRR data elements and is not all inclusive.
Qualified Clinical Data Registry

- AAOS maintains a QCDR designation
- Specialty society driven participation in the Merit-incentive Based Payment System (MIPS)
- QCDR provides participants access to Promoting Interoperability (PI) and Quality Payment Program (QPP) credit
- Additional opportunities for alternative reporting for the bundled payment through BPCI-A episodes
Integration of Medicare Data

- Access to Medicare claims inclusive of inpatient (148 data elements), outpatient (122 data elements) & National Death Index
- Linked by full identifiers for longitudinal tracking
- 2012-2019 Medicare data for all patients represented in Registry with quarterly updates
  - Medicare files ~ 1 year delayed
  - National Death Index ~ 2 years delayed
  - National Inpatient Sample (NIS) integrated as reference data for representative analyses
  - NPPES dataset incorporated for NPI validation
- Access to custom reports that compare their site to the national Annual Report analyses, show migration trends, etc.
AAOS has partnered with technology vendors to facilitate the data submission process.

- Re-use data that already exists in medical record, practice management and PRO systems.
- Direct data submission and management can be handled by a technology provider with sites able to fix rejected files.
Registry Informed Advocacy

- Real-world data about orthopaedic care
- Participation in both Fee-for Service (FFS) and Fee-for-Value (FFV) based payment models
- Providing for data re-use opportunities
Data Reuse Opportunities

Participation in the American Academy of Orthopaedic Surgeons (AAOS) Registry Program offers a wide variety of data reuse opportunities including requirements for quality initiatives and state collaboratives.

- AAOS RegistryInsights® Platform Standard Reports and personalized dashboards
- AAOS RegistryInsights National Benchmarks
- Accreditation Association for Ambulatory Health Care (AAAHC) Advanced Orthopaedic Certification
- Aetna Institutes of Quality (IOQ) Orthopaedic Surgery
- American Board of Neurological Surgery (ABNS) Continuous Certification (CC)
- American Board of Orthopaedic Surgeons (ABOS) Maintenance of Certification (MOC) Program
- BlueCross BlueShield Blue Distinction Specialty Care
- Blue Shield of California waiver of prior authorization
- Bree Collaborative
- CMS Merit-based Incentive Payment System (MIPS) Promoting Interoperability (PI) and Quality Payment Program (QPP)
- Centers for Medicare & Medicaid Services (CMS) Bundled Payments for Care Improvement Advanced (BPCI-A)
- CMS Comprehensive Care for Joint Replacement (CJR) Model
- Cigna Surgical Treatment Support Program
- DNV GL Orthopaedic Center of Excellence
- The Alliance QualityPath
- The Joint Commission Advanced Certification for Total Hip & Knee Replacement
Three Ways to Access Data

RegistryInsights® Dashboards

Custom Reports

Registry Analytics Institute®
On-demand practice specific dashboards

Compare your practice to national performance benchmarks

Unlimited surgeon accounts with access to system, site, and surgeon level dashboards
Performance Measure Dashboards

THKR-1 Regional Anesthesia (Hip)

Institution: AJRR Test Hospital 1

2019

50.00%

Patients undergoing a total hip or total knee replacement with regional anesthesia attempted or performed. Regional anesthesia includes spinal epidural blocks, as well as peripheral nerve blocks.

THKR-1 Regional Anesthesia (Hip)

Institution: AJRR Test Hospital 1

2019

50.00%

# THKR1 Hip Regional Anesthesia

Procedures (numerator) = 18

Procedures (denominator) = 36

Patients undergoing a total hip or total knee replacement with regional anesthesia attempted or performed. Regional anesthesia includes spinal epidural blocks, as well as peripheral nerve blocks.
Surgeon Dashboards

Surgeon Authorized Users

- View their procedural, post-operative and PROM data
- National benchmarks for comparison measures
- Request custom reports
- Submit data for quality initiatives (e.g., ABOS MOC, QPP, BPCI-A)
Custom reports created by our analytics team to help understand and package your site data in an actionable format

Custom reports can include site specific metrics and shape continuous improvements to the canned dashboards provided

Aggregated reports and national benchmarks for every metric across all data submitted including procedural, post-operative and PROMs data can be provided at your site level
The goal of the AAOS Registry Analytics Institute is to provide a resource to the scientific community to further understand and improve orthopaedic and musculoskeletal care by making data available to examine outcomes related to orthopaedics.

- The Institute provides clinicians and clinician-scientists the opportunity to submit proposals for analytic insight that are contained within its various registries.
  - Selected awardees receive statistical support, data analyses, and potential monetary support
Why Do Sites Participate?

- Facilitate site, practice-specific, payer-incentivized performance improvement programs such as Blue Distinction & Centers of Excellence
- Qualify for national distinction programs such as the Joint Commission Advanced Certification & AAAHC
- Use for reporting to quality improvement programs such as MIPS, BPCI-A, ABOS MOC & ABNS CC
- Early access to surveillance alerts for poorly performing implants
- Improve the value of care delivered to patients
- Compare your practice to national performance benchmarks
- Access to on-demand practice specific quality reports and dashboards
- Facilitate tracking and monitoring of longitudinal patient outcomes
Contact the AAOS Registry Program

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Contracts, Invoicing, & Onboarding: RegistryEngagement@aaos.org

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Business Hours: Monday through Friday, 8 a.m. to 4 p.m. Central Time
Improving orthopaedic care through data.

Questions?
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Webinar Recordings

- Recordings and slide decks from past webinars can be found on this page of the AAOS website.
- If you would like to view a recording of a webinar held before October 2020, please visit learn.aaos.org.
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Thank You

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