

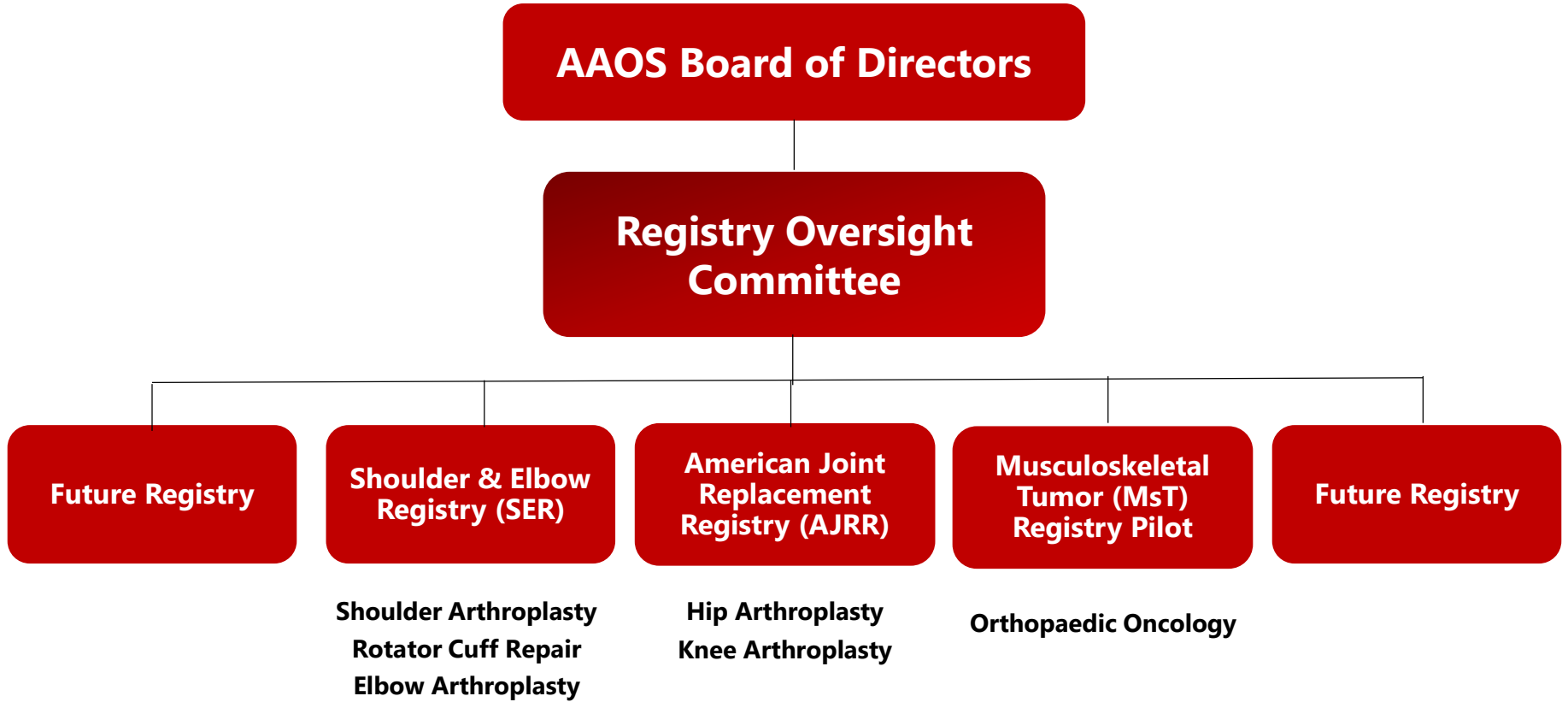
7 Benefits of AAOS Registry Program Participation

July 17th 2019

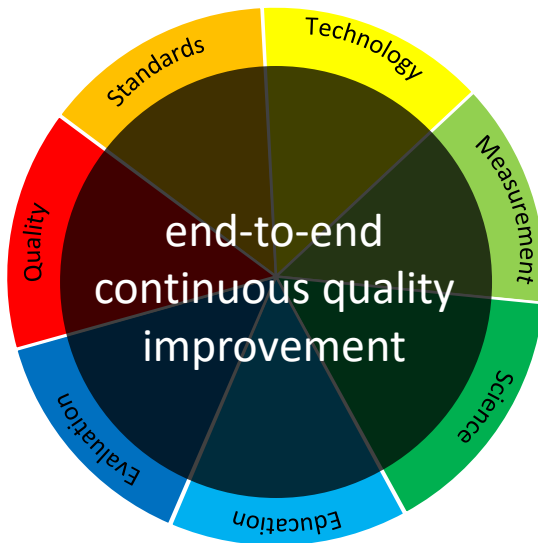
Agenda

- Introductions
 - Phil Dwyer, Registry Engagement Manager
 - Mariah Matesi, Senior Registry Engagement Associate
 - Frosiana Gjerazi, Registry Engagement Associate
 - Kristine Sizemore, Registry Engagement Associate
- Review of AAOS Registry Program
- Benefits
- What's New?
- Q & A

AAOS Family of Registries



Quality Vision



Registries

- **component of a larger quality vision**
- **provide data to inform AAOS guidelines and test performance measures**
- **provide feedback to providers to continuously improve their practice and healthcare outcomes**
- **allow AAOS to define what quality means in a value-based system**
- **reduce the reporting burdens on physicians**
- **help inform gaps in knowledge or areas for further education**

"If you can't measure it, you can't improve it" ~ Drucker

Registry Program Highlights



- The American Joint Replacement Registry (AJRR) was re-integrated into AAOS
- The Registry Oversight Committee (ROC) was created
- Additional staff hired and physician leadership groups created
- Shoulder & Elbow Registry developed and launched
- Strategy for building a scalable and sustainable Registry Program developed
- Revamp of data specifications and problem-solving for improved data capture within AJRR including release of revised specification

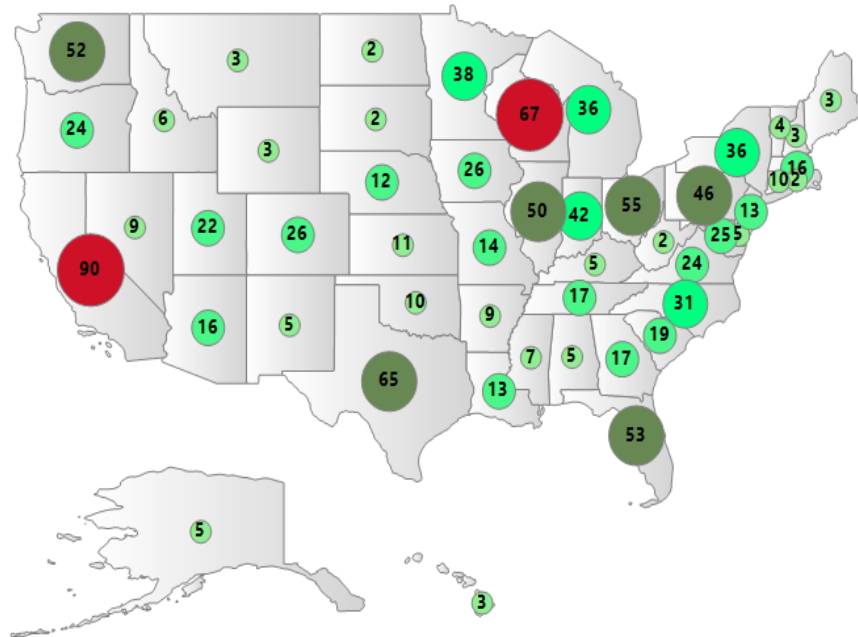
1. A Growing Hub of Orthopaedic Registries

AJRR is the largest national Orthopaedic Registry in the world by annual volume of procedures

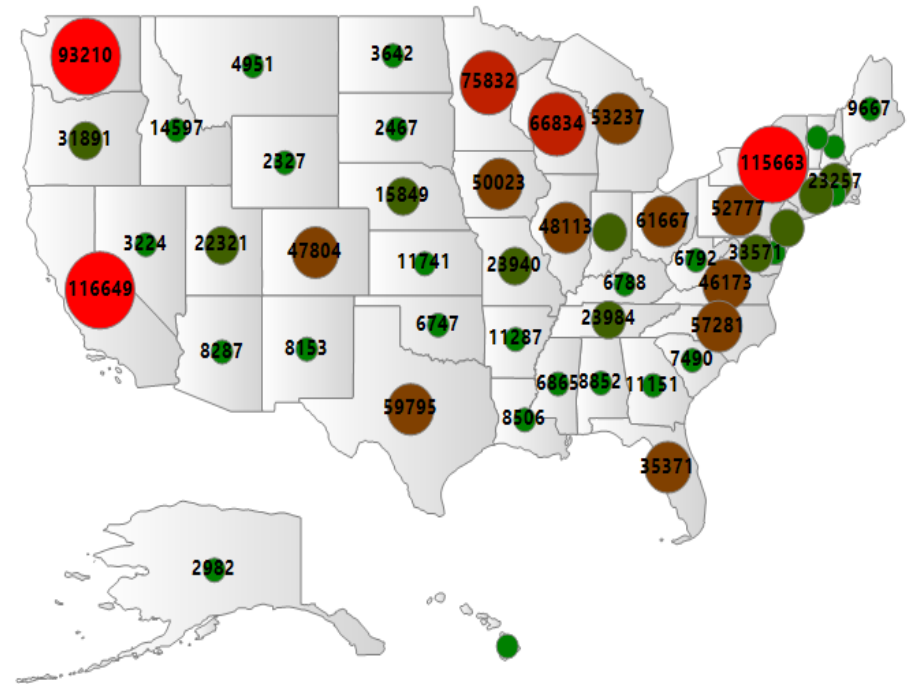
- Expanded Data Specs
- CMS Supplemental Data

We currently have 1300 subscribing sites, representing 1.7million procedures and over 10000 registered surgeons.

Participating Sites by State



Procedures by State



Registry Data Elements

Procedural

Patient

- Name (Last, First)
- Date of Birth
- Social Security Number
- Diagnosis (ICD-9/10)
- Gender
- Race/Ethnicity

Hospital

- Name and Address

Surgeon

- Name (National Provider Identifier)

Procedure

- Type (ICD-9/10)
- Date of Surgery
- Laterality
- Implants

Other

- Comorbidities (ICD-9/10)
- Height & Weight/Body Mass Index
- Length of Stay
- American Society of Anesthesiologists Score
- Operative Complications

Post-Op

Patient, Hospital, Surgeon, and Procedure Data Elements needed for matching

Post-operative Complications

90-day Re-admission

- Re-admission Diagnosis (ICD-9/10)
- Re-admission procedure type (ICD-9/10)
- Re-admission date/discharge date

PROMs

Patient, Hospital, Surgeon, and Procedure Data Elements needed for matching

Patient-reported Outcomes

Recommended:

- PROMIS-10 Global
- VR-12
- HOOS/KOOS, JR.
- CJR Risk Variables
- SANE
- ASES

PRO Tracking

- Collection Interval
- Completion Date

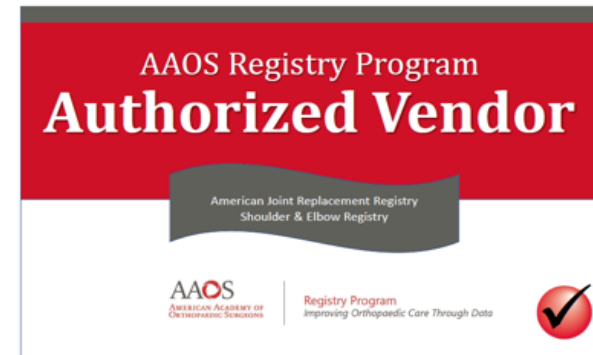
Ease of Use



- Easy enrollment into additional registries: AJRR, SER, MST and future registries
- Use the same Platform-RegistryInsights™
- Access to the same resources as AJRR
 - Registry Support
 - Analytics

Authorized Vendor Program

Registry Authorized Vendors

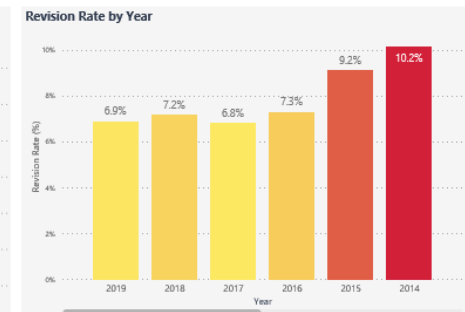
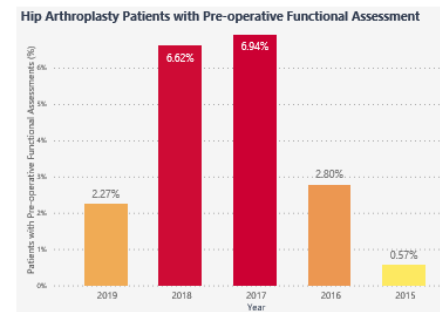
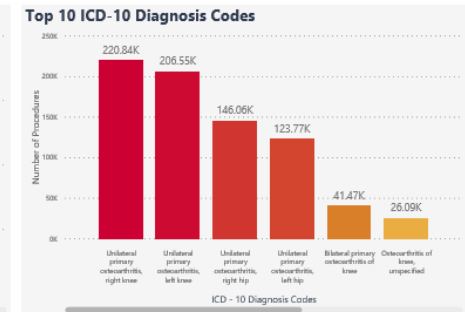
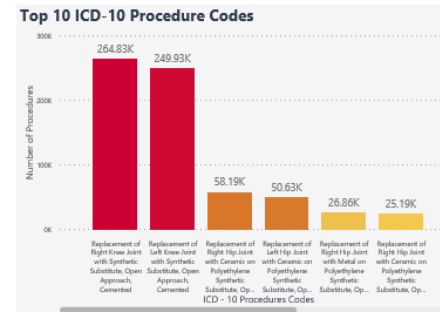
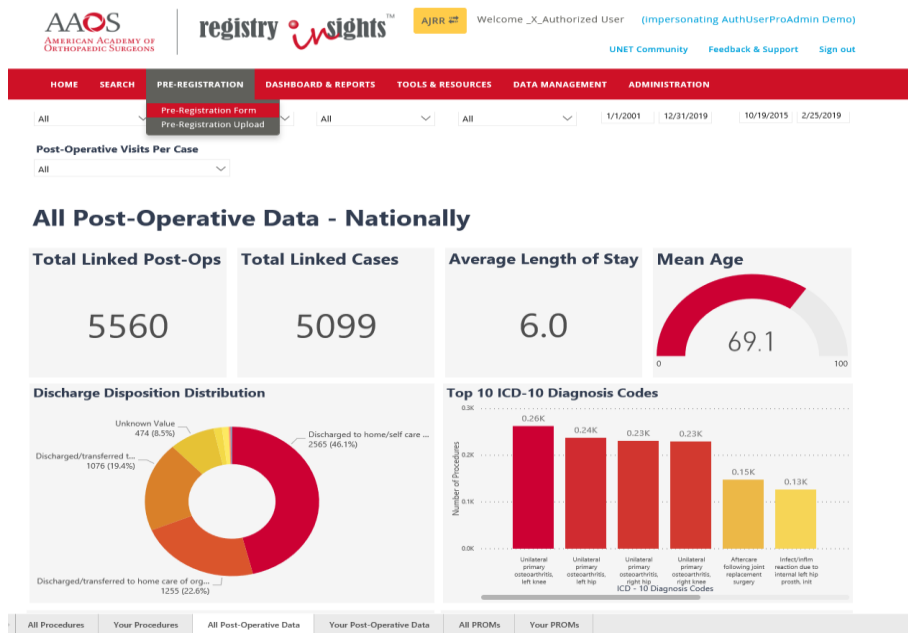


We've partnered with technology vendors to help with a seamless data submission process for our institutions

2. National Dashboards & Benchmarks

National Dashboards & Benchmarks

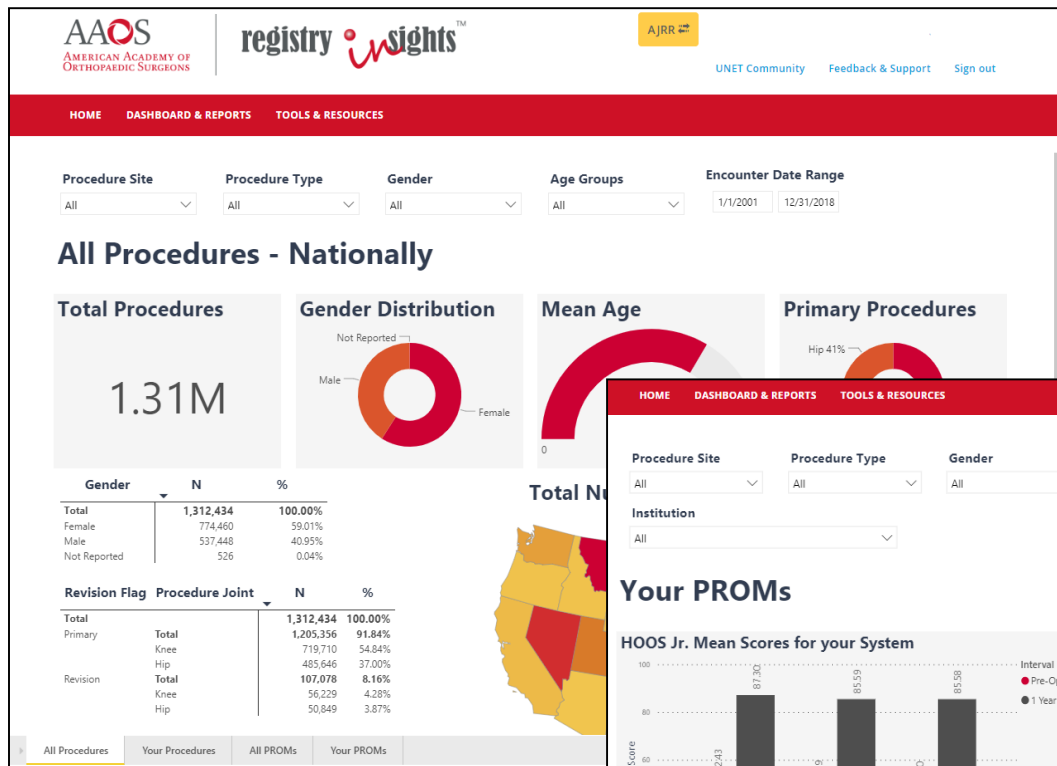
- Procedural Dashboards
- Post Op Complications
- PRO Dashboards



*For this performance measurement, 0.0% means that there is qualifying procedure but no assessments vs when nothing shows up there were no qualifying procedures.

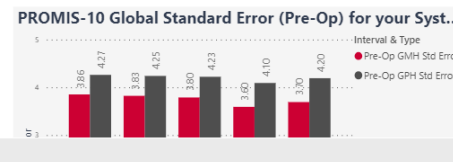
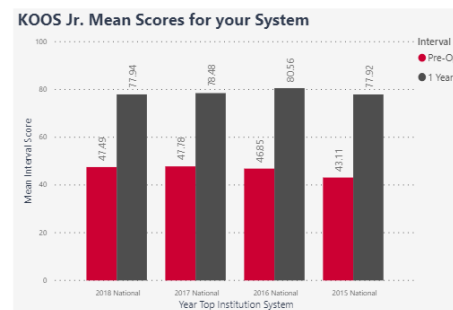
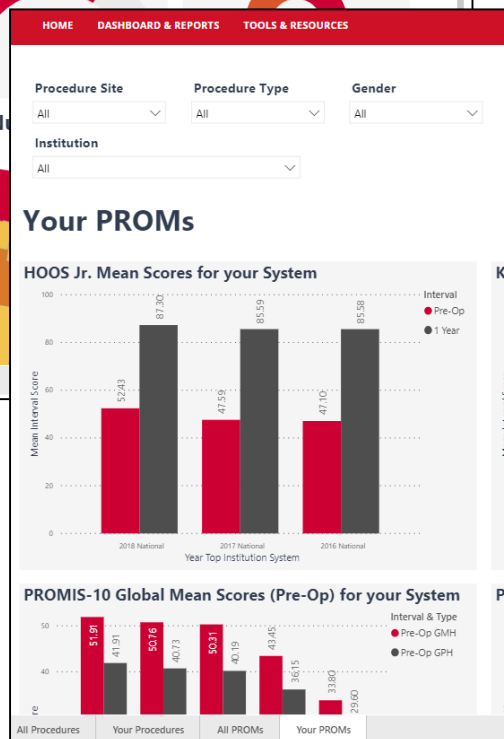
3. Surgeon Dashboards

Surgeon Dashboards



Surgeons have accounts where they are able to:

- see their procedural, post-operative and PROM data
- compare themselves to national benchmarks
- request custom reports
- opt to submit data for quality initiatives (e.g. MOC, QPP)



4. PROMs Collection Portal

AAOS Registry Program RegistryInsights™ Platform

AAOS
AMERICAN ACADEMY OF
ORTHOPAEDIC SURGEONS

registry insights™

AJRR Welcome Mariah Matesi (Impersonating ProSiteAdmin Demo)

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PROM HOME

Quick Links

- VIEW UPCOMING ASSESSMENTS
- VIEW PAST DUE ASSESSMENTS
- VIEW PRE-OP ASSESSMENTS

Participating Pro Institutions

INSTITUTION NAME	RESPONSE RATE PRE-OP	RESPONSE RATE POST-OP	RESPONSE RATE ALL
AJRR Test Hospital 1	0.4%	0.1%	0.1%
AJRR Test Hospital 2	23.9%	0%	10.2%
AJRR Test Hospital 3	0%	0%	0%
AJRR Test Hospital 4	20.9%	3.7%	14.1%
AJRR Test Hospital 5	0%	11.1%	5.6%

Stats

Registry Total Assessments
298.18 K

Your Total Assessments
65

Your Pre vs Post Completions

- Pre (82.5%)
- Post (17.5%)

Actual Cases
Earliest Procedure
10/20/2005
Latest Procedure
2/28/2018

Assessments Due in next 7 Days [MORE](#)

PATIENT ID	LAST NAME	FIRST NAME	CASE ID	ASSESSMENT NAME	INTERVAL	DUE DATE
7911	Last122444	First2387	PRC8097	CollaboRATE	Yearly	3/6/2019
7911	Last122444	First2387	PRC8097	KOOS	Yearly	3/6/2019

- View PRO benchmarks
- Assign and manage patient assessments
 - Time intervals
 - Type of assessment
- Preregister patients

Collecting and Submitting PRO's

PRO Collection

- *Through your EMR or paper, phone, email*
- Third Party Vendor
- RegistryInsights PRO Administration platform



PRO Submission

- *Via our file format upload-PROM layout*
- *Manually input data into an excel worksheet*
- Vendor signs AAOS agreement and submits on Participant's behalf, or
- Vendor collects PROs and sends to Participant to submit via a file upload
- Kiosk Mode
- Manual Entry
- Email

PROM Management

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Procedure Reports Patient Reported Outcomes Reports

Count of Components by Type Assessment Summary

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HOME / REPORTS / PROM PATIENT STATUS REPORT

Entries 10 Results 1-10 of 120,06

ACCOUNT ID	HOSPITAL/ASC NAME	PATIENT ID	PATIENT LAST NAME	PATIENT FIRST NAME	PATIENT DATE OF BIRTH	PATIENT EMAIL ADDRESS	PATIENT PHONE TYPE	PATIENT PHONE NUMBER	PROCEDURE	LATERALITY	PLANNED SURGERY DATE	SURGEON NPI
1041062	SER Test Hospital 1	PRP30258	atAAOS	johnny	1/1/1980				Shoulder Arthroplasty	Left	1/24/2019	
1041062	SER Test Hospital 1	PRP30258	atAAOS	johnny	1/1/1980				Shoulder Arthroplasty	Left	1/24/2019	
1041061	SER Test Hospital 5	PRP30261	Bobby	Ricky	7/16/2019				Rotator Cuff Repair	Left	2/28/2019	1619012200
1041061	SER Test Hospital 5	PRP30261	Bobby	Ricky	7/16/2019				Rotator Cuff Repair	Right	2/28/2019	1619012200
1041062	SER Test Hospital 1	PRP30246	Brown	Charlie	1/1/1980				Shoulder Arthroplasty	Left	1/20/2019	
1041062	SER Test Hospital 1	PRP30246	Brown	Charlie	1/1/1980				Shoulder Arthroplasty	Left	1/20/2019	
1041062	SER Test Hospital 1	PRP30235	butkus	dick	1/1/1980				Shoulder Arthroplasty	Left	1/20/2019	

PRE-REGISTRATION FORM PRE-REGISTRATION UPLOAD

This form allows AJRR Users to pre-register patients prior to surgery for pre-operative, patient-reported outcome measures (PROMs) data collection. Once the form has been submitted, a patient pre-operative case will be added to the Registry. The pre-registration process permits users to collect PROMs from patients via the AJRR platform through the patient kiosk or through manual entry of a patients' PROMs responses into the platform if collected by paper or clinician/surrogate administration.

PART 1: Patient demographic details

Please complete all applicable required and optional fields of the patient demographic section. Note: Email is conditionally required, however if you are administering assessments via email you must provide a patient email or the system will not be able to send the email to the patient.

If the Patient Social Security Number (SSN) is not available, please select the 'Not Available' option next to the Social Security field. Please note that the Registry also accepts the last 4 digits of the SSN. Patient SSN assists the Registry with achieving its mission through the ability to track longitudinal device information.

Social Security*

 Not Available
 Email

PART 2: Pre-Operative Case Information

Please complete all applicable required and optional fields of the pre-operative case section. Case information is required for all cases to be added to the Registry. Please note that all case data requested pertains to future procedures.

Planned Proc Date

Procedure Site

 Shoulder
 Elbow

Institution

Surgeon

Payer Info

Access to PRO Instruments

Patients see PROMs survey questions asked in an easy to answer format



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Patient Gautam Jaiswal **Laterality** Left **Procedure Site** Knee **Surgeon**
Assessment KOOS JR **Version** 1 **Interval** 1 Year

General

How was this captured?

When was this captured?

Stiffness

The following question concerns the amount of joint stiffness you have experienced during the **last week** in your knee. Stiffness is a sensation of restriction or slowness in the ease with which you move your knee joint.

1. How severe is your knee stiffness after first wakening in the morning?

NONE	MILD	MODERATE	SEVERE	EXTREME
------	------	----------	--------	---------

Pain

What amount of knee pain have you experienced the **last week** during the following activities?

2. Twisting/pivoting on your knee

NONE	MILD	MODERATE	SEVERE	EXTREME
------	------	----------	--------	---------

3. Straightening knee fully

NONE	MILD	MODERATE	SEVERE	EXTREME
------	------	----------	--------	---------

4. Going up or down stairs

NONE	MILD	MODERATE	SEVERE	EXTREME
------	------	----------	--------	---------

5. Standing upright

NONE	MILD	MODERATE	SEVERE	EXTREME
------	------	----------	--------	---------

Function, daily living

The following questions concern your physical function. By this we mean your ability to move and activities please indicate the degree of difficulty you have experienced in the **last week** due to yo

6. Rising from sitting

NONE	MILD	MODERATE	SEVERE	EXTREME
------	------	----------	--------	---------

7. Bending to floor/pick up an object

NONE	MILD	MODERATE	SEVERE	EXTREME
------	------	----------	--------	---------

5. Standard and Custom Reports

Standard Reports



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Procedure Reports

- Count of Components by Type
- Count of Procedures by ICD-9 Procedure Codes
- Count of Procedures by ICD-10 Procedure Codes
- Count of Procedures by CPT Procedure Codes
- Procedures With Component Information (ICD-9)
- Procedures With Component Information (ICD-10)
- Knee Procedures Submitted to AJRR (ICD-9)
- Knee Procedures Submitted to AJRR (ICD-10)
- Hip Procedures Submitted to AJRR (ICD-9)
- Hip Procedures Submitted to AJRR (ICD-10)
- Count of Procedures By Surgeon

Patient Reported Outcomes Reports

- Assessment Summary
- Patient Status Report
- All Patients Due For Survey Report
- Patient Compliance Report



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Entries

Results 1-10 of 395

EDURE	LATERALITY	PROCEDURE DATE	ICD10 REMOVAL CODE	ICD10 REMOVAL DESCRIPTION	ICD10 REPLACEMENT CODE	ICD10 REPLACEMENT DESCRIPTION	PROCEDURE TYPE	ICD10 DIAGNOSIS CODE	ICD10 DIAGNOSIS DESCRIPTION
	Right	5/31/2016			0SRROJZ	Replacement of Right Hip Joint, Femoral Surface with Synthetic Substitute, Open Approach	Replacement	M80.851K	Other osteoporosis with current pathological fracture, right femur, subsequent encounter for fracture with nonunion
	Left	5/31/2016			0SRDOJ9	Replacement of Left Knee Joint with Synthetic Substitute, Open Approach, Cemented	Replacement	M17.12	Unilateral primary osteoarthritis, left knee
	Left	6/30/2017			0SRDOJ9	Replacement of Left Knee Joint with Synthetic Substitute, Open Approach, Cemented	Replacement	M17.12	Unilateral primary osteoarthritis, left knee
	Left	7/28/2017			0SRDOJ9	Replacement of Left Knee Joint with Synthetic Substitute, Open Approach, Cemented	Replacement	M17.12	Unilateral primary osteoarthritis, left knee
	Left	7/31/2017			0SRDOJ9	Replacement of Left Knee Joint with Synthetic Substitute, Open Approach, Cemented	Replacement	M17.12	Unilateral primary osteoarthritis, left knee



Registry Program
Improving Orthopaedic Care Through Data

8/5/2019

Custom Reports

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

6. Analytics Institute

Registry Analytic Institute (RAI)



A resource to the scientific community to further understand and improve orthopaedic and musculoskeletal care



The Institute gives clinicians and clinician-scientists the opportunity to submit proposals to answer hypothesis



For more information visit the [RAI](#) site

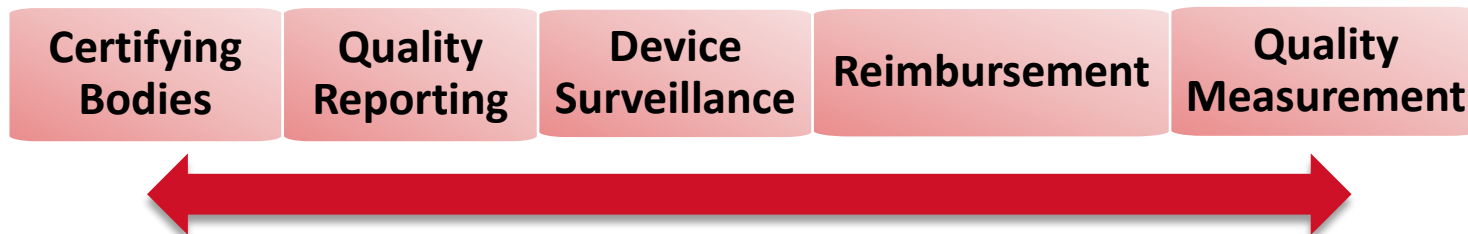


Any questions and applications sent to: Analyticsinstitute@aaos.org

7. Reuse and Accreditation

Increasing Re-Use of Data

- Calculate national performance benchmarks
- Qualify for national distinctions such as the Joint Commission advanced certification in hip or knee replacement
- Access to on-demand practice specific quality reports and dashboards to compare locally, regionally, and nationally
- Track and monitor outcomes with longitudinal patient information
- Reduce complications and revision rates across sites
- Receive surveillance alerts for poorly performing implants
- Support quality initiatives and participation in payer incentivized QI
- Improve data to support orthopaedic care and best practices
- Allow for re-use of data towards programs like MIPS, MOC, CME



The Joint Commission Partnership



For more information, contact:

Kayee Ip

847-384-4035

ip@aaos.org

Maureen Lyons

630-792-5171

MLyons@jointcommission.org

American Academy of Orthopaedic Surgeons and The Joint Commission collaborate to help further standardize care and quality improvement in hip and knee replacement surgeries

ROSEMONT, Ill. (September 26, 2018)—The [American Academy of Orthopaedic Surgeons](#) (AAOS) has announced collaboration with [The Joint Commission](#) to incorporate AAOS clinical expertise into standards development and performance measurement requirements for [Total Hip and Knee Replacement](#) (THKR) Certification. The Joint Commission established the voluntary advanced certification in 2016 for accredited hospitals, critical access hospitals and ambulatory surgery centers (ASCs) seeking to elevate the quality, consistency and safety of their services and patient care.

Through the new collaboration, the AAOS and The Joint Commission will jointly oversee scientific issues, performance measurement, quality improvement activities, education, data sharing and research related to the certification—with continued commitment to constantly assessing and evaluating quality for the safety and benefit of orthopaedic patients. This includes, as of January 1, 2019, implementation of a new THKR certification requirement for hospitals and ASCs to participate in a national registry, like the American Joint Replacement Registry (AJRR), to further help standardize care and quality improvement in hip and knee replacements.

Awarded for a two-year period, the THKR certification addresses the growing number of patients undergoing total hip or total knee replacement surgeries, and increases focus on clinical evidence-based patient care as it relates to pain management, quality of life issues, functional limitation in mobility and return to normal daily activities. It provides hospitals and ASCs performing orthopaedic procedures with a framework and pathway for improving patient outcomes by:

- Recently announced AAOS & TJC Partnership
- AJRR serves to meet the requirements of the advanced certification for hip & knee
- Effective July 1, 2019, the AJRR will become the sole pathway for meeting The Joint Commission's THKR certification registry requirement.

New Features

- Surgeon Dashboards
- Post-Op Dashboards
- Analytics Institute
- Shoulder and Elbow Registry(SER)
- Additional Registries
- Additional and unlimited Data Uploader Roles

THANK YOU!



Contact us:

RegistryEngagement@aaos.org

www.aaos.org/registries | RegistryInfo@aaos.org