

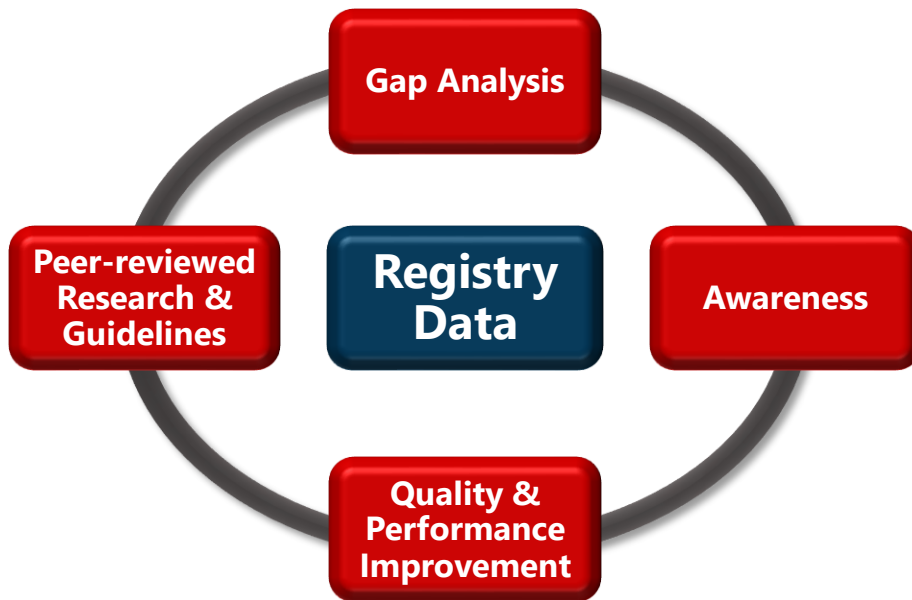
# **New AAOS Registry Insights Enhancements You Should Know About**

[www.aaos.org/registries](http://www.aaos.org/registries)

# Agenda

- **AAOS Registry Program Overview**
- Q4 2019 and 2020 Release Review
- RegistryInsights® Enhancements Review
- Question & Answer

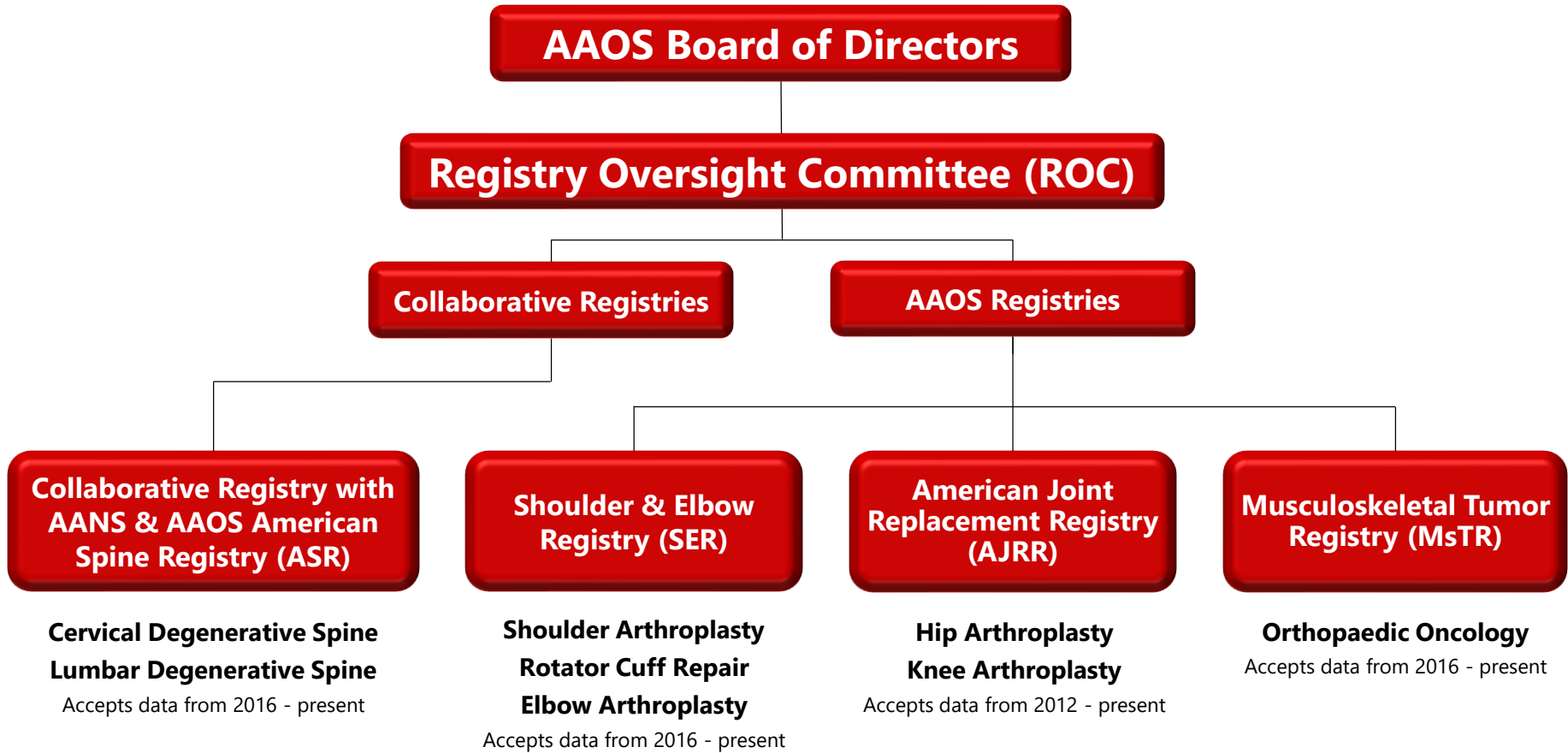
# At the Core of Academy Strategy



## Registry Effort Goals

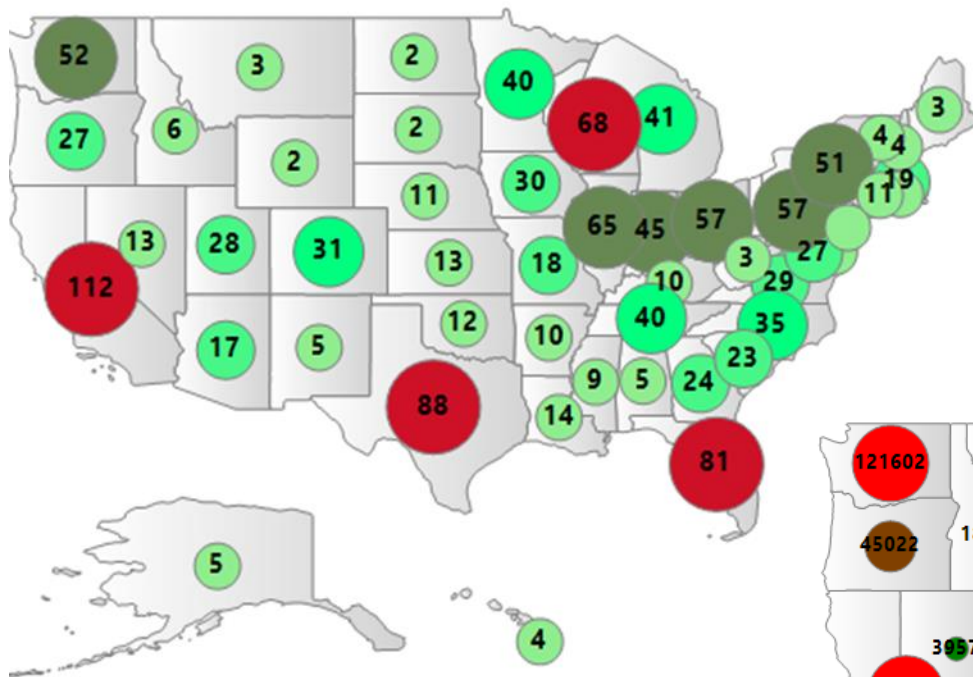
- ✓ Collect unique clinical information demonstrating ***real-world practice***
- ✓ Enable ***performance measurement*** by physicians for physicians
- ✓ Facilitate national registry-driven ***quality improvement*** programs
- ✓ Support novel scientific ***research***

# AAOS Family of Registries



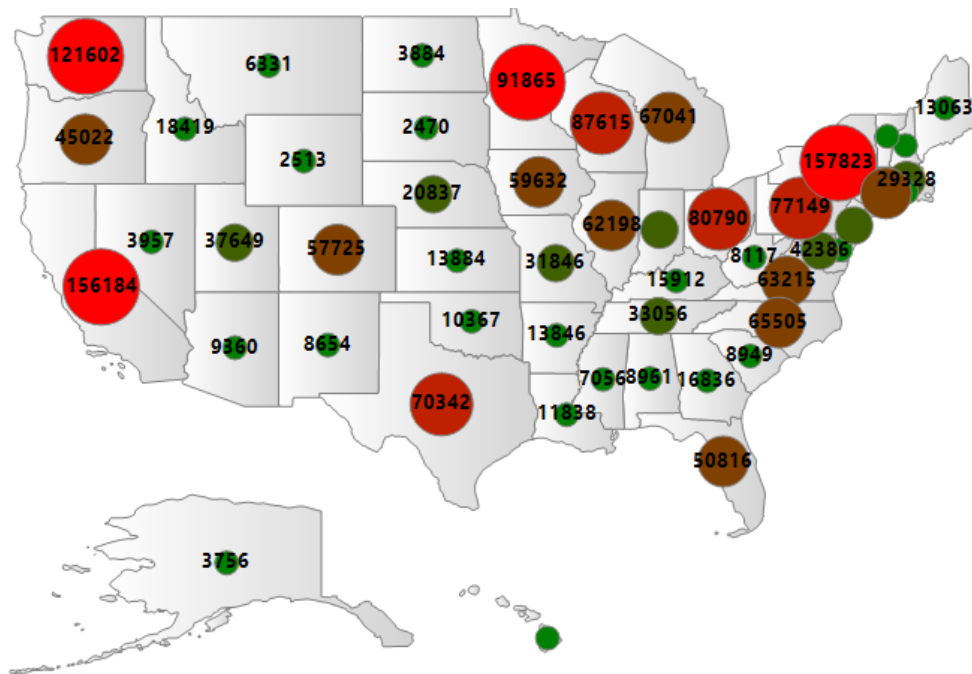
# Registry Participation

Sites by State



Over 1,450 participating sites contracted and 11,200 registered surgeons across all 50 states.

Procedures by State



Data representing over 1,860,000 procedures capturing over 40% of all US TJA volume annually.

# 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.

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- 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 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

**Registry Insights®  
Dashboards**



**Custom Reports**

**Registry Analytics  
Institute™**

# Custom Reports

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Custom reports created by our analytics team to help understand and package your site data in an actionable format

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

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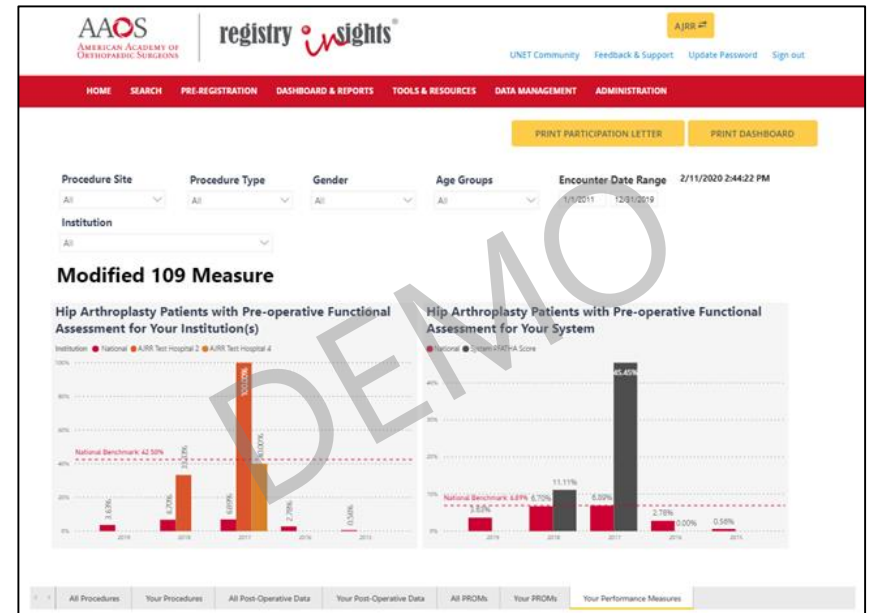
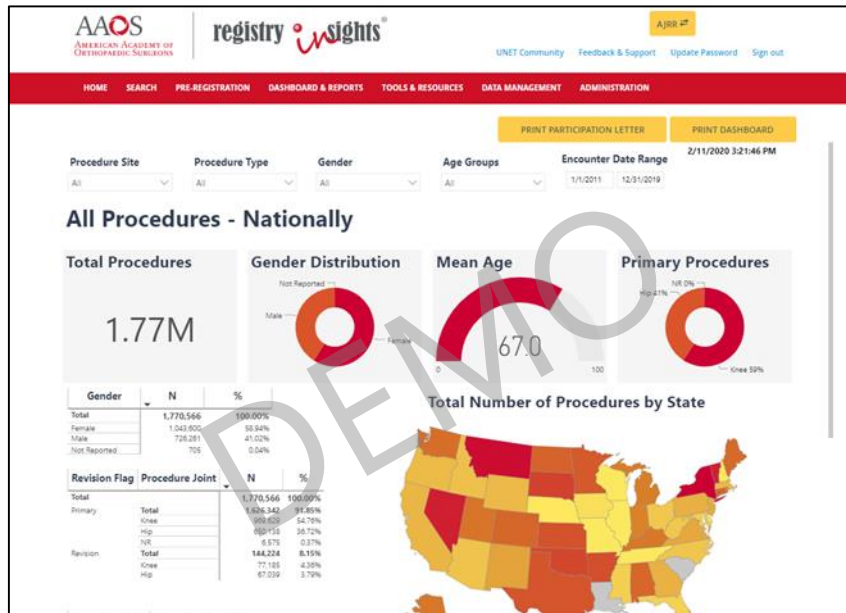
Aggregated reports and national benchmarks for every metric across all data submitted including procedural, post-operative and PROMs data can be provided at your site level

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# RegistryInsights® Dashboards

- On-demand practice specific dashboards
- Compare your practice to national performance benchmarks
- Unlimited surgeon accounts with access to system, site, and surgeon level dashboards



# PROM Management

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UNET Community Feedback & Support Sign out

HOME SEARCH PRE-REGISTRATION DASHBOARD & REPORTS TOOLS & RESOURCES DATA MANAGEMENT ADMINISTRATION

HOME / REPORTS

## Procedure Reports

Count of Components by Type

Count of Procedures by ICD-10 Procedure Codes

Count of Procedures With C

Shoulder Procedure

Count of Procedure

## Patient Reported Outcomes Reports

Assessment Summary

Patient Status Report

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.

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UNET Community Feedback

HOME SEARCH PRE-REGISTRATION DASHBOARD & REPORTS TOOLS & RESOURCES DATA MANAGEMENT ADMINISTRATION

HOME / REPORTS / PROM PATIENT STATUS REPORT

Entries 10

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	
1041062	SER Test Hospital 1	PRP30258	ataAOS	johnny	1/1/1980				Shoulder Arthroplasty	Left	1/24/20	
1041062	SER Test Hospital 1	PRP30258	ataAOS	johnny	1/1/1980				Shoulder Arthroplasty	Left	1/24/20	
1041061	SER Test Hospital 5	PRP30261	Bobby	Ricky	7/16/2019				Rotator Cuff Repair	Left	2/28/20	
1041061	SER Test Hospital 5	PRP30261	Bobby	Ricky	7/16/2019				Rotator Cuff Repair	Right	2/28/2019	1619012200 Bi Ct
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	

### 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

Select One

Shoulder

Elbow

Institution

Select One

Surgeon

Select One

Payer Info

Select One

SUBMIT

### 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

# Registry Analytics Institute™

- 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

# Agenda

- AAOS Registry Program Overview
- **Q4 2019 and 2020 Release Review**
- RegistryInsights® Enhancements Review
- Question & Answer

# RegistryInsights®

## Quarter Four 2019 & Quarter One 2020:

- **4.1.4. Registry Insights Release: Launch of American Spine Registry Platform**
- **4.1.5. Registry Insights Release – Self Service User Management**
- **4.2 Registry Insights Release – Additional Self Service User management enhancements – Released on 4/8/20**



# 4.2 Release Details

- **Increased efficiency in the participant onboarding process** by providing an interface to upload test files, validating that file with the same logic that is currently used for Production data intake and providing a report back to the user that advises them of any errors or needed modifications in their submission.
- **Introducing Rotator Cuff** as a module within the Shoulder and Elbow Registry, enabling the processing of Rotator Cuff files and displaying Rotator Cuff dashboards and reports.

# 4.2 Release Details

- Displaying **new TJC visuals** on the Your Performance Measures tab in AJRR PowerBI dashboards.
- **Additional details for flagged and rejected records** to help participants troubleshoot file issues.

# Agenda

- AAOS Registry Program Overview
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- **RegistryInsights® Enhancements Review**
- Question & Answer



# RegistryInsights®

- **New Features and Functionality**

- Self Service User Management

- Authorized User can create Data submission User; Surgeon Authorized User; Prom Site Administrator and Clinician user.
    - All users can now update their passwords within Registry Insights Platform

[Feedback & Support](#) [Update Password](#) [Sign out](#)

The [Manage Clinician Users](#) section of the Administration tab is for assigning the Clinician role to the Providers and locations they are associated with for Patient-Reported Outcome collection.

As an Authorized User, you may assign the following roles on this page: Data Submission User, Surgeon Authorized User, Prom Site Administrator and, if applicable, Authorized User.

**Add Role**

Institutions

Roles

First Name

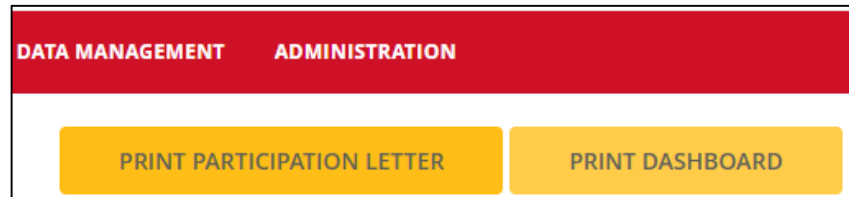
Last Name

Surgeon NPI

Email

# RegistryInsights®

- **New Features and Functionality**
  - Dashboard Functionality improvements
    - PROM and POST OP Dashboard Update
    - Printing Site Dashboard w/ timestamp
    - Printing Registry Participation Letter



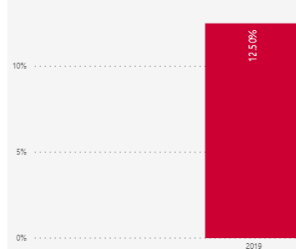
# RegistryInsights®

- **New Features and Functionality**
  - Performance Measures Dashboard Tab
    - TJC & 109 performance measurement visuals

The Joint Commission Advanced Certification for Total Hip and Knee Replacement (THKR) Measures

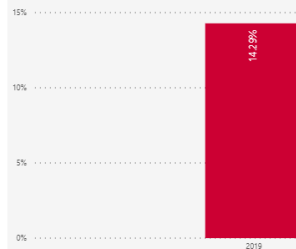
THKR-1 Regional Anesthesia (Hip)

Institution ● AJRR Test Hospital 1



THKR-1 Regional Anesthesia (Knee)

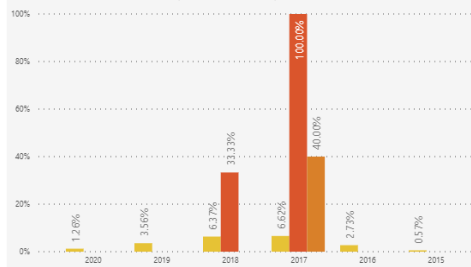
Institution ● AJRR Test Hospital 1



Modified 109 Measure

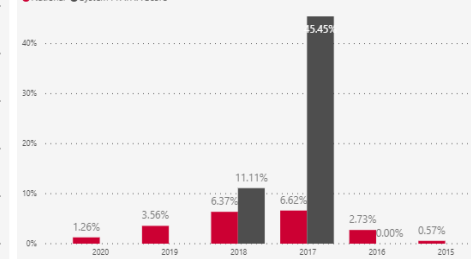
Hip Arthroplasty Patients with Pre-operative Functional Assessment for Your Institution(s)

Institution ● National ● AJRR Test Hospital 2 ● AJRR Test Hospital 4



Hip Arthroplasty Patients with Pre-operative Functional Assessment for Your System

● National ● System PFATHA Score

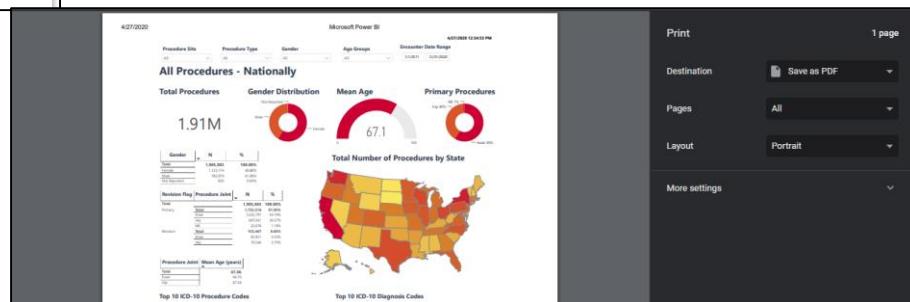
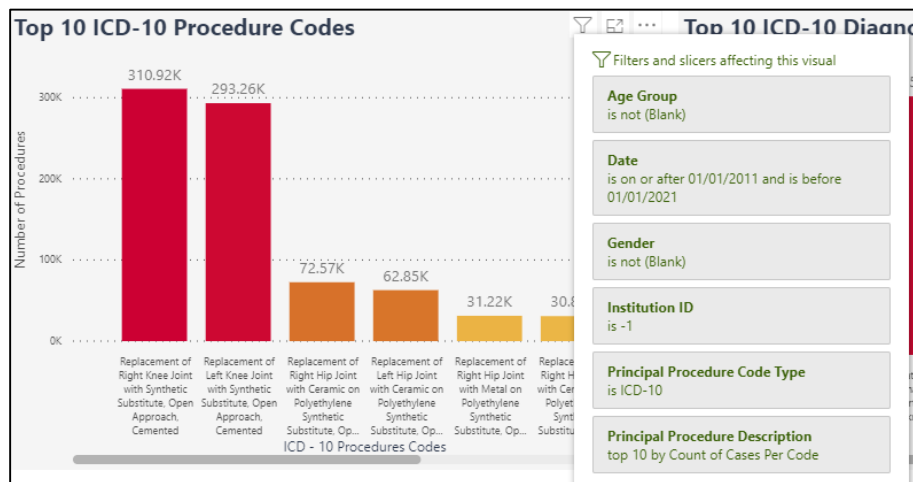


# RegistryInsights®

- **New Features and Functionality**

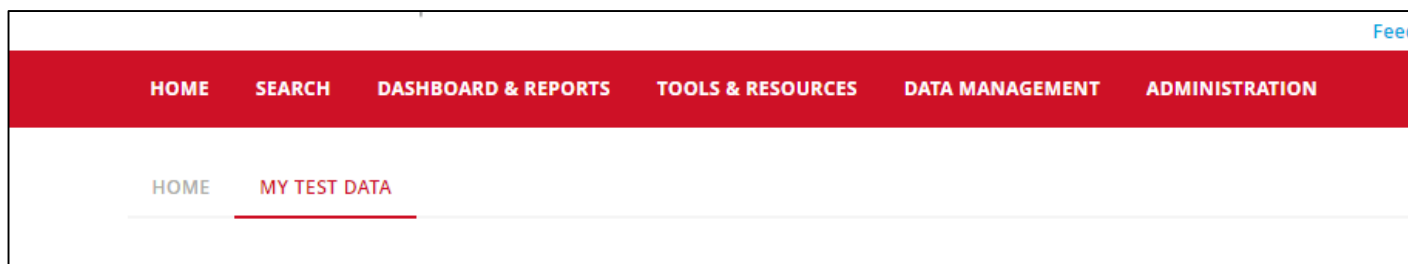
- Dashboard Functionality improvements

- Improved Filter functionality on institution dashboards



# RegistryInsights®

- **New Features and Functionality**
  - My Test Data Section
    - Authorized Users and Data Submission Users



A screenshot of the 'Latest File Upload' section, titled 'Latest File Upload Last 6 months' with a 'MORE' button. The table below lists file uploads with columns for 'UPLOADED ON', 'SUBMITTED BY', 'FILENAME', 'TOTAL CASES', and 'TOTAL REJECTED'. Each row includes a 'View' link.

UPLOADED ON	↑ SUBMITTED BY	FILENAME	TOTAL CASES	TOTAL REJECTED	
4/6/2020	AJRR Test Healthcare System	1040823_20200406221119_AJRR Post-Op - Legacy - R4.2 Deployment Validation.xlsx	4	0	<a href="#">View</a>
4/6/2020	AJRR Test Healthcare System	1040823_20200406221124_AJRR PRO - Legacy - R4.2 Deployment Validation.xlsx	7	0	<a href="#">View</a>
4/6/2020	AJRR Test Healthcare System	1040823_20200406221113_AJRR Procedure - Legacy - R4.2 Deployment Validation.xlsx	7	0	<a href="#">View</a>
4/6/2020	AJRR Test Healthcare System	1040823_20200406173357_AJRR Post-Op - 2020 - R4.2 Deployment Validation.xlsx	8	0	<a href="#">View</a>
4/6/2020	AJRR Test Healthcare System	1040823_20200406173410_AJRR PRO - 2020 - R4.2 Deployment Validation.xlsx	8	0	<a href="#">View</a>

# RegistryInsights®

- **New Features and Functionality**

- My Test Data Section

- Data management now has test upload section dropdown
    - Search section now has Test vs Production dropdown

HOME / QUICK PATIENT SEARCH

TEST PATIENT SEARCH TEST CASE SEARCH

Entries 10 ▾ Results 1-10 of 15

PATIENT ID	FIRST NAME	LAST NAME	MIDDLE NAME	DOB	CITY	STATE	ZIP
ID	First	Last	Middle	DOB	City	State	Zip

SEARCH

**Upload Test Cases** DOWNLOAD MACRO

Please provide a valid Excel file.

Institution\*  
Select one ▾

File Type\*  
Select one ▾

Drag Files Here  
Excel File (.xlsx)

SELECT FILE

UPLOAD FILE

# RegistryInsights®

- **New Features and Functionality**
  - Flagged and Rejected Records Review

Case Flagged records are reviewed by AAOS staff and no action is required.

Flagged records were successfully processed, but contain values for individual data element(s) that do not align to AAOS' data specifications. These values are excluded from the case details.

### Processing Details

Entries: 10 Results 1-10 of 38

RAW KEY	MESSAGE	FAILED FIELD NAME	STATUS	INTERNAL REVIEW	SUBMITTED RECORD
3451086	Case: Missing/Multiple Site(s)	N/A	CaseFlagged	No	<a href="#">View</a>
3451087	Case: Missing/Multiple Site(s)	N/A	CaseFlagged	No	<a href="#">View</a>
3451086	Case: Missing/Multiple Site(s)	N/A	CaseFlagged	No	<a href="#">View</a>
3451087	Case: Missing/Multiple Site(s)	N/A	CaseFlagged	No	<a href="#">View</a>
3451084	Invalid Value	Patient Height Metric	Flagged <span style="color: red;">!</span>	No	<a href="#">View</a>
3451085	Invalid Value	Patient Height Metric	Flagged <span style="color: red;">!</span>	No	<a href="#">View</a>
3451087	Invalid Value	Patient Height Metric	Flagged <span style="color: red;">!</span>	No	<a href="#">View</a>
3451082	Invalid Value	Patient Height Metric	Flagged <span style="color: red;">!</span>	No	<a href="#">View</a>
3451083	Invalid Value	Patient Height Metric	Flagged <span style="color: red;">!</span>	No	<a href="#">View</a>
3451086	Invalid Value	Patient Height Metric	Flagged <span style="color: red;">!</span>	No	<a href="#">View</a>

Previous 1 2 3 4 Next

## Rejected Field Detail

Patient Weight (08/07/1900) is not Numeric

[CLOSE](#)

# RegistryInsights®

- **New Features and Functionality**
  - Registry Module Drop Down

**Latest File Upload** *Last 6 months* MORE


Module  
Rotator Cuff

UPLOADED ON	SUBMITTED BY	FILENAME	TOTAL CASES	TOTAL REJECTED	
4/7/2020	AJRR Test Healthcare System	1040823_20200408014700_Rotator Cuff Post-Op - Legacy - R4.2 Deployment Validation.xlsx	9	0	<a href="#">View</a>
4/7/2020	AJRR Test Healthcare System	1040823_20200408014705_Rotator Cuff PRO - Legacy - R4.2 Deployment Validation.xlsx	9	0	<a href="#">View</a>
4/7/2020	AJRR Test Healthcare System	1040823_20200408014650_Rotator Cuff Procedure - Legacy - R4.2 Deployment Validation.xlsx	9	0	<a href="#">View</a>

**Upload Cases**  
Please provide a valid Excel file.

Institution\*  
Select one

Registry Module\*  
Select one



**Drag Files Here**  
Excel File (.xlsx or .xls)

SELECT FILE

UPLOAD FILE

Procedure Site: All
Procedure Type: All
Gender: All
Age Groups: All
Encounter Date Range: 1/1/2011 - 12/31/2020

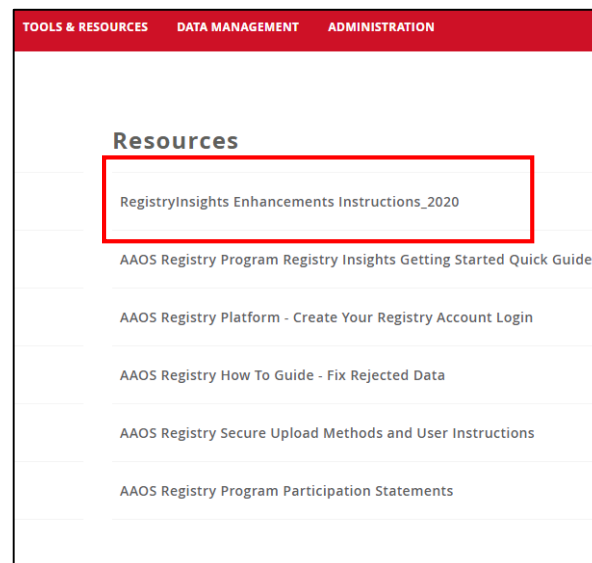
Institution: All
Module: All

Rotator Cuff  
 Shoulder Arthroplasty



# RegistryInsights®

- New Features and Functionality
  - Roadmap for 2020
    - Self Service Functionality
    - UNET Section of RI
  - Enhancement User Feedback
    - Performance Measures
    - User Role Management



# Agenda

- AAOS Registry Program Overview
- Q4 2019 and 2020 Release Review
- RegistryInsights® Enhancements Review
- **Question & Answer**

# Question & Answer

[www.aaos.org/registries](http://www.aaos.org/registries)

[Olsen@aaos.org](mailto:Olsen@aaos.org)