

Registry Program Improving Orthopaedic Care Through Data

AAOS Registry Program Benefits for ASCs and Private Practices

September 19th 2019



Introductions

- Phil Dwyer, Registry Engagement Manager
- o Mariah Matesi, Senior Registry Engagement Associate
- Kristine Sizemore, Registry Engagement Associate
- Review of AAOS Registry Program
- Benefits
- Q & A



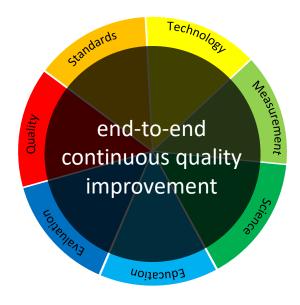
The AAOS Registry Program

Overview



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Quality Vision

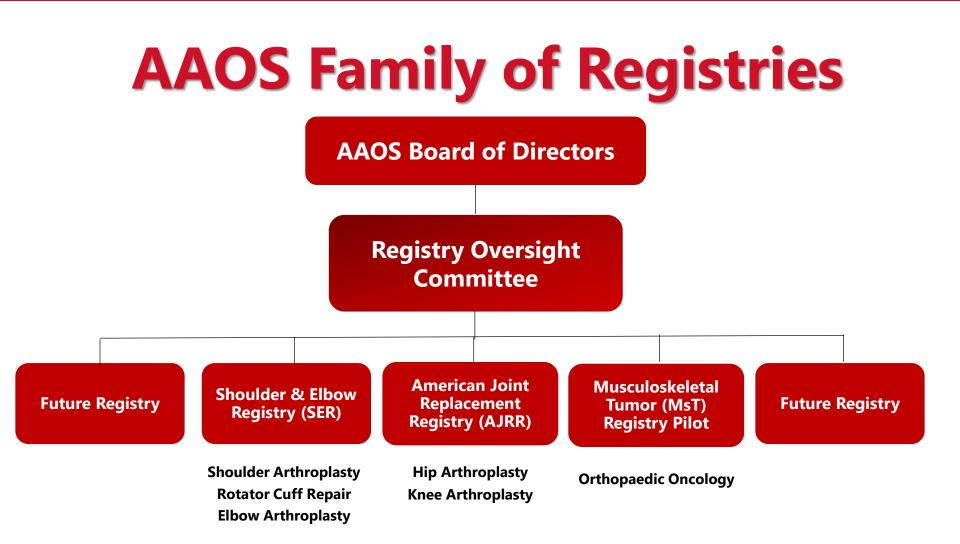


Registries

- 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







AAOS Registry Leadership

Registry Oversight Committee

William J. Maloney, MD, Chair David Halsey, MD Kevin J. Bozic, MD Steven D. Glassman, MD Gerald Williams, Jr., MD David S. Jevsevar, MD Ronald A. Navarro, MD Kurt P. Spindler, MD Michael J. Gardner, MD

SER Steering Committee

Gerald R. Williams Jr., MD – Chair Joaquin Sanchez-Sotelo, MD Ronald A. Navarro, MD John E. Kuhn, MD Stephen F. Brockmeier, MD Patrick St. Pierre, MD Grant E. Garrigues, MD Mark Baratz, MD

Musculoskeletal Tumor Registry Pilot Benjamin Miller, MD, Lead



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AJRR Steering Committee

Kevin J. Bozic, MD, MBA, Chair Bryan Springer, MD, Vice Chair David Lewallen, MD, Medical Director James R. Banks James A. Browne, MD James L. Huddleston III, MD Robert Krebbs Gregory B. Krivchenia II, MD David E. Mino, MD Brian S. Parsley, MD James D. Slover, MD Scott Sporer, MD Rick Seiden, Esq. Paul Voorhorst, MS

Additional AJRR Committees

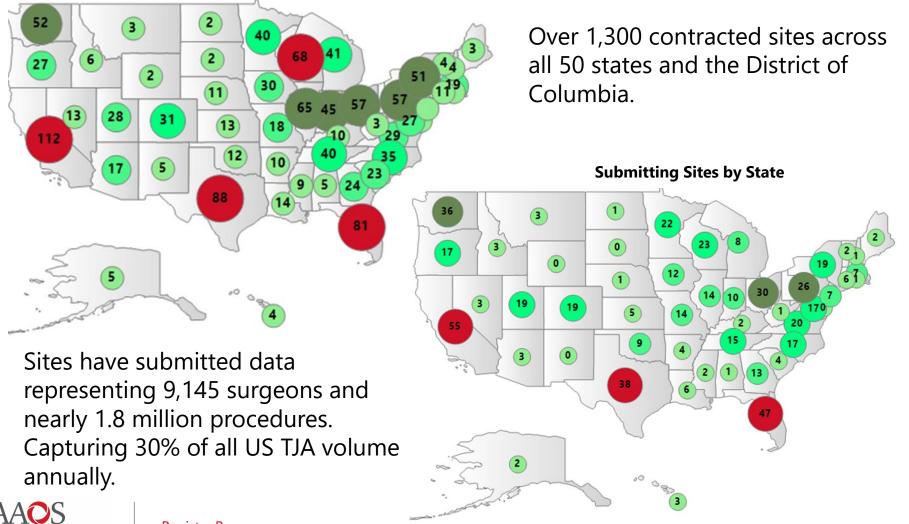
Bryan Springer, MD, Chair, Data Committee James A. Browne, MD, Chair, Publications Subcommittee Scott M. Sporer, MD, Chair, Data Elements Subcommittee Richard L. Illgen, II, MD, Chair, Research Subcommittee James I. Huddleston, III, MD, Chair, California State Registry Committee

Public Advisory Board

Rick Seiden, Esq., Chair

AAOS Participation

Contracted Sites by State



American Academy of

ORTHOPAEDIC SURGEONS



- AJRR was re-integrated into AAOS, the Shoulder & Elbow Registry (SER) & Musculoskeletal Tumor Registry (MsT) Pilot were developed and launched
- Investment in *technical infrastructure* to optimize user and multistakeholder experience
 - Development of *PROM dashboards*, data *access directly to AAOS surgeons*, and increased value of Registry InsightsTM
- Developed partnerships with ABOS, Joint Commission, CMMI for use of data in MOC, COE, MIPS, and more





- Launched *Registry Analytics Institute* to foster further dissemination of Registry Program data in literature, conferences, and across trainees
- Obtained *access to Medicare claims* data for linkage
- Selected for National Eval System for health Technology Coordinating Center (NESTcc) grant to participate in *feasibility pilot for data linkage from private payers*
- Developed partnership with ASCA and Ortho Forum
- Announced the **ASR** (American Spine Registry) as our next rollout



Registry Program Development Strategy

- Recruitment of new sites, expanding to more ambulatory surgical center (ASCs) and private practices
- Expansion of partnerships to bring re-use of data to participants
- Opportunities for collaboration around payer and certifying body incentive programs.
- Strategy for growing participation and building a self-sustaining program



The AAOS Registry Program

Benefits of Participation



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Why Do Sites Participate?

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





The Joint Commission Partnership







For more information, contact: Kayee Ip Maureen Lyons

847-384-4035 630-792-5171

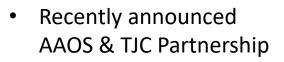
ip@aaos.org MLyons@jointcommission.org

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, III. (September 26, 2018)—The <u>American Academy of Orthopaedic Surgeons</u> (AAOS) has announced collaboration with <u>The Joint Commission</u> to incorporate AAOS clinical expertise into standards development and performance measurement requirements for <u>Total Hip and Knee</u> <u>Replacement</u> (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:



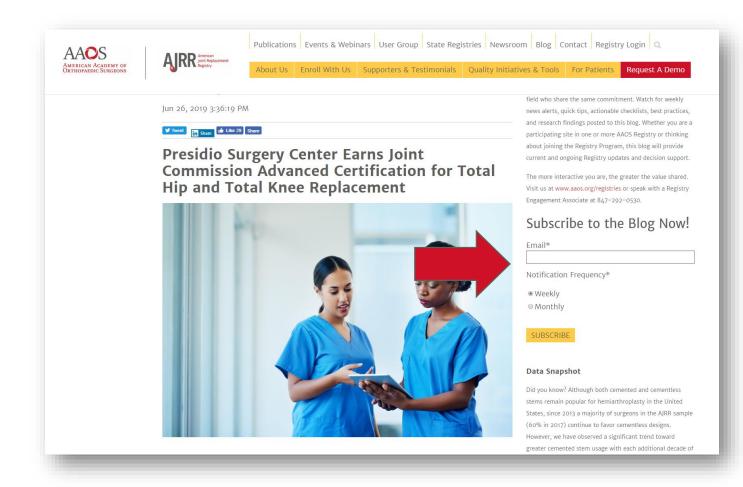
- AJRR serves to meet the requirements of the advanced certification for hip & knee
- Effective July 1, 2019, the AJRR became the sole pathway for meeting The Joint Commission's THKR certification registry requirement.



Registry Program

Improving Orthopaedic Care Through Data

Free Subscription to AAOS Registry Program Blog



Subscribe here.



Presidio Surgery Center, The Joint Commission, and AJRR

View Presidio Surgery Center's Registry and Joint Commission Certification story on the <u>Registry Program blog</u>.

"I think it surprised a lot of hospitals in the area that we were certified [Joint Commission Advanced THKR Certification] – and they weren't." Jessie Scott, Presidio Surgery Center Administrator.

Presidio Surgery Center

A California Pacific Medical Center Affiliate





The AAOS Registry Program

Getting Started



Getting Started

- 1. Contract with AAOS
- 2. Accounts are set-up
 - Site administrator
 - Data submission
 - Surgeon users
 - PROM administrators
- 3. Data Submission
 - Technical set-up
 - Test data submission
 - Live data submission
- 4. Use of data
 - Dashboards
 - Canned reports
 - Custom reporting





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 Anesthesiologis ts 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



Submission Best Practices

- Most participants submit monthly, active submission is at least every 90 days
- Ask your site's IT about setting up automated reports
- You can monitor data submission uploads and address errors by logging into <u>RegistryInsights</u>™
- To learn more about correcting cases with issues, follow the instructions in the <u>How-</u> <u>To Guide: Fix Rejected Data in Uploaded</u> <u>Files to AJRR</u>





Decreasing Data Burden

- 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





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



The AAOS Registry Program

Accessing Your Data





Three ways to access data

RegistryInsights[™] Dashboards

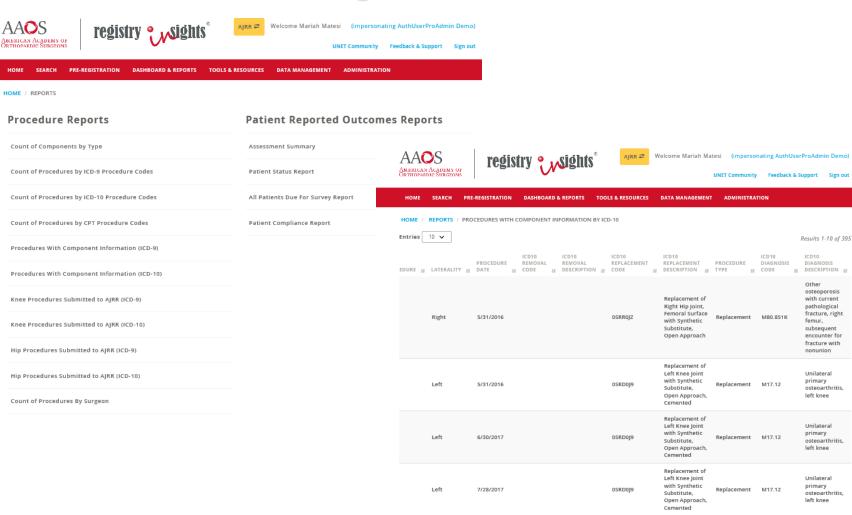
Registry Analytics Institute (RAI)

Custom Reports





Standard Reports



Left

7/31/2017



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05RD019

Replacement of Left Knee Joint

with Synthetic

Open Approach Cemented

Substitute,

Replacement M17.12

Unilateral

osteoarthritis, left knee

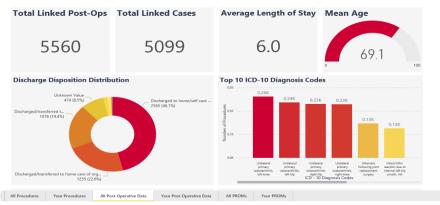
primary

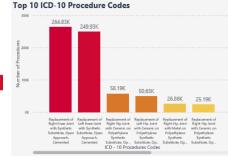
National Dashboards & Benchmarks

- Procedural Dashboards
- Post Op Complications
- PRO Dashboards

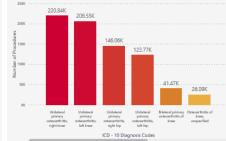


All Post-Operative Data - Nationally





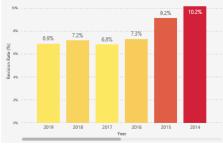












For this performance measurement, 0.0% means that there is qualifying procedure but no assessments vs when nothing shows up there were no qualifying procedures.

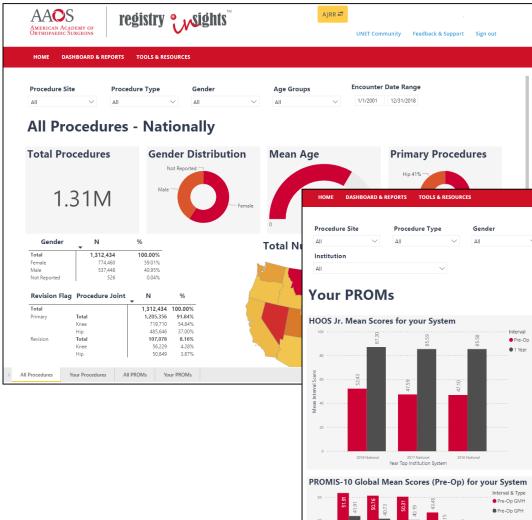
All Procedures Your Procedures All Post-Operative Data Your Post-Operative Data

ative Data All PROMs Your PROMs



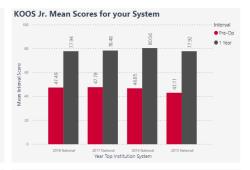
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Surgeon Dashboards



Surgeons have accounts where they are able to:

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







Improving Orthopaedic Care Through Data

All Procedu

All PROMs

Registry Program

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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 <u>RAI</u> site



Any questions and applications sent to: <u>Analyticsinstitute@aaos.org</u>



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



Email registryanalytics@aaos.org

The AAOS Registry Program

PROMs Portal



AAOS Registry Program RegistryInsights[™] Platform

	sights [™]	AJRR 🛱 🛛 Welcome N		nting ProSiteAdmin Demo) dback & Support Sign out
HOME SEARCH PRE-REGISTRATION DASHBOARD	D & REPORTS TOOLS & RE	SOURCES ADMINISTRATIO	N	
PROM HOME				
Quick Links	Participating	Pro Institution	s	
VIEW UPCOMING ASSESSMENTS	INSTITUTION NAME	RESPONSE RATE PRE-OP	RESPONSE RATE POST-OP	RESPONSE RATE ALL
VIEW OPCOMING ASSESSMENTS	AJRR Test Hospital 1	0.4%	0.1%	0.1%
VIEW PAST DUE ASSESSMENTS	AJRR Test Hospital 2	23.9%	D%	10.2%
	AJRR Test Hospital 3	0%	D%	0%
VIEW PRE-OP ASSESSMENTS	AJRR Test Hospital 4	20.9%	3.7%	14.1%
	AJRR Test Hospital 5	096	11.1%	5.6%
Registry Total Assessmen		You Pre (82.5 %) Post (17.5 %)	r Pre vs Post Complet	ions
Your Total Assessments			Actual Cases Earliest Procedure 10/20/2005 Latest Procedure 2/28/2018	
Assessments Due in next 7 Da	ays			MORE
PATIENT ID 11 LAST NAME 11 FIRST NAME	ME II CASEID	11 ASSESSMENT NAME	11 INTERVAL	II DUE DATE 🛉
7911 Last122444 First2387		CollaboRATE	Yearly	3/6/2019

 View PRO benchmarks

 Assign and manage patient assessments

 Time intervals
 Type of assessment

Preregister patients



															PRE-REGISTRATION FORM PRE-REG	ISTRATION UP	LOAD
PR	0	M		M	8	n	a	g	Je	n	16	n	t				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 patient's PROMs response into the platform if
AAQOS AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS	reg	istry 🥠	sights	тм				UNET Com	_	ER 🗰 🦾	rt Sign out						collected by paper or clinician/surrogate administration. PART 1: Patient demographic details
HOME SEARCH P	PRE-REGISTRATIO	N DASHBOARD	& REPORTS	TOOLS &	RESOURCES	DATA MAN	AGEMENT	ADMINIS	STRATION								uetans
HOME / REPORTS										s Report:	s						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.
Count of Component	ts by Type				Asse	ssment Sum	mary										If the Patient Social Security Number (SSN) is not available, please select the 'Not Available' option next to
Count of Prc	AAQO AMERICAN AG ORTHOPAEDIC	CADEMY OF	regis	stry °		ġhts™				UNET	Community	SER 🗰 🕞	upport Sign out	PART 2: P Informati	re-Operative Case ion		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*
Procedures	HOME S	EARCH PRE-RE	GISTRATION	DASHBO	DARD & REP	ORTS TOO	LS & RESOU	RCES D	DATA MANAG	EMENT ADN	INISTRATION				ete all applicable required and optional pre-operative case section. Case		Not Available
Shoulder Pro	HOME / RE	PORTS / PROM I	PATIENT STAT	ILIS REPOR	т									Registry. Pleas	s required for all cases to be added to the se note that all case data requested iture procedures.		Email
Count of Pro	Entries 10											Resu	lts 1-10 of 120,065	Planned Proc Dat			
	ACCOUNT ID †	HOSPITAL/ASC NAME	PATIENT ID	PATIENT LAST NAME	PATIENT FIRST NAME	PATIENT DATE OF BIRTH	PATIENT EMAIL ADDRESS	PATIENT PHONE TYPE	PHONE	PROCEDURE	LATERALITY	PLANNED SURGERY DATE	SURGEON NPI SI	Procedure Site Select One Select One		·	
	1041062	SER Test Hospital 1	PRP30258	atAAOS	johnny	1/1/1980				Shoulder Arthroplasty	Left	1/24/2019		Shoulder Elbow			
© 2012 - 2019 An	1041062	SER Test Hospital 1	PRP30258	atAAOS	johnny	1/1/1980				Shoulder Arthroplasty	Loft	1/24/2019		Select One		•	
	1041061	SER Test Hospital 5	PRP30261	Bobby	Ricky	7/16/2019				Rotator Cuff Repair	Left	2/28/2019	1619012200 B C	Select One Payer Info Select One		•	
	1041061	SER Test Hospital 5	PRP30261	Bobby	Ricky	7/16/2019				Rotator Cuff Repair	Right	2/28/2019	1619012200 B C	SUBMIT			
	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	,				

AAQOS American Academy of Orthopaedic Surgeons

Access to PRO Instruments

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

		AJRR 🛱 🛛 Welcome Mar	iah Matesi (impersonating ProSiteAdmin D		Pain				
AMERICAN ACADEMY OF	stry °√sights™				What amount of kr	nee pain have yo	ou experienced the la	ast week during	the following activities?
ORTHOPAEDIC SURGEONS	•		UNET Community Feedback & Support Si	ign out	2. Twisting/pivo	ting on your kne	ee		
HOME SEARCH PRE-REGISTRATION	DASHBOARD & REPORTS TOOLS & RE	SOURCES ADMINISTRATION			NONE	MILD	MODERATE	SEVERE	EXTREME
					3. Straightening	knee fully			
HOME / SEARCH / CASE DETAIL / KOC	DS JR				NONE	MILD	MODERATE	SEVERE	EXTREME
Patient Gautam Jaiswal	Laterality Left	Procedure Site Knee	Surgeon		4. Going up or o	lown stairs			
Assessment KOOS JR	Version 1	Interval 1 Year			NONE	MILD	MODERATE	SEVERE	EXTREME
General					5. Standing upri	ght			
General					NONE	MILD	MODERATE	SEVERE	EXTREME
How was this captured?	When was this capture	d?							
SELECT	×				Function,	daily livi	ng		
						_			

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	s your knee stiff	ness after first wake	ning in the morni	ng?
NONE	MILD	MODERATE	SEVERE	EXTREME

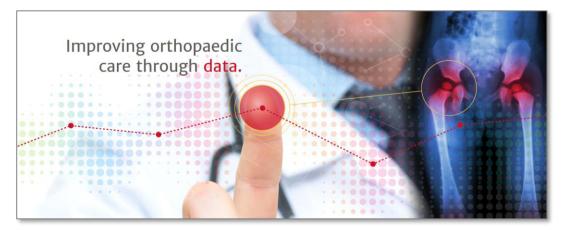
6. Rising from si	itting							
NONE	MILD	MODERATE SEVERE EXTREM						
7. Bending to flo	oor/pick up an o	object						
NONE	MILD	MODERATE	SEVERE	EXTREME				

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



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THANK YOU!



Contact us:

RegistryEngagement@aaos.org

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