

Disclosures

AAOS Board of Directors

Royalties Zimmer Stryker





"Form follows Function"

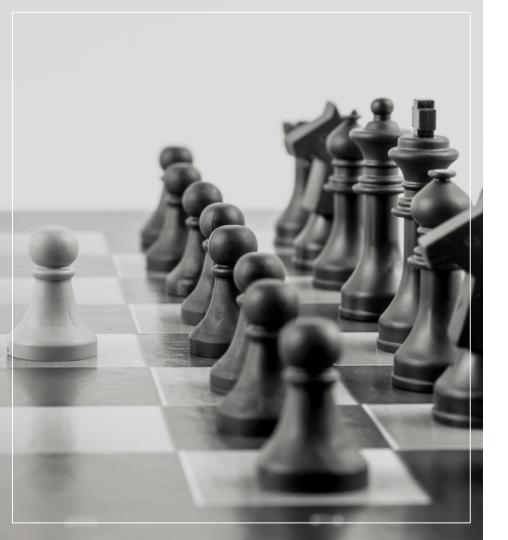
To help you grow professionally and provide the best possible care to your patients, the AAOS is evolving through four strategic initiatives in the coming year:

- Building new, more effective models for Governance and Strategy
- Managing Orthopaedic Tribalism through Partnership
- Enhancing the Value of your Academy Relationship
- Supporting Advocacy through Research & Quality.



High Level

Building new, more effective strategic plan and governance structure to operationalize that plan



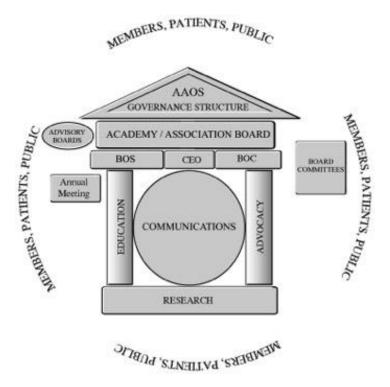
Shaping the Future – Strategic Planning

Given the pace of change and new Academy leadership, the Board of Directors approved a new Project Team to shape the next Strategic Plan

- 1. Understand our members needs
- 2. Focus on our core competencies
- 3. Strategic partnerships to create new member value & loyalty



Current Governance Structure





AAOS

Parallel Orthopaedic Organizations

 American <u>Association</u> of Orthopaedic Surgeons AAAOS

AMERICAN ASSOCIATION OF OKTHOPAEDE: SURGBONS

- ◆ 501 (c) (6) organization
- Maximizes our advocacy efforts
- Supports political action
- American <u>Academy</u> of Orthopaedic Surgeons
 - ◆ 501 (C) (3)





High-Performing Governance

- Comprehensive assessment of AAOS governance as compared to best practices
- 2. Formulate a set of principles, tailored to the AAOS, that specifies how AAOS Board will be structured and governed
- 3. Identify any changes to current AAOS governance to align with new set of principles







Partnership Summit Series

SUMMIT I 2018 Annual Meeting SUMMIT II 2018 NOLC

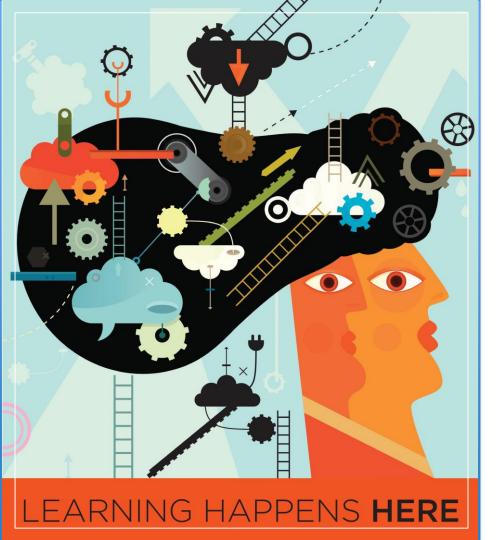
CREATE A PARTNERSHIP CULTURE that:

- · Promotes alignment, not rivalry
- Defines direction
- Allocates resources & clarifies roles
- · Provides mutual benefits and creates shared value
- · Holds people and their organizations accountable
- Ensures agility and innovation

OUTCOME: AAOS becomes the trusted "hub" for orthopaedics through transparent and accountable partnerships that enhance member value







NEW ONLINE LEARNING PLATFORM

learn.aaos.org

Convenient, comprehensive and engaging content, including:

- All self-assessment examinations
- 60+ surgical techniques microlearning modules
- All AAOS Practice Prep Plans
- Orthopaedic Video Theater

Free to AAOS members



Educational Programs

NEW MEMBER BENEFIT **ORTHOPAEDIC VIDEO THEATER**

- New dynamic interface makes it easier to search, download, bookmark, and rate videos through the AAOS Access app
- 700 videos from top experts worldwide
- 200+ videos now offering CME





Resident Education

AAOS is committed to helping residents prepare for clinical rotations, Board exams, and practice.

- Orthopaedic Video Theater
- OrthoBullets
- NEW: Blueprint for OITE and Part I
- NEW: Oncology Review Course
- NEW: ResStudy Platform features a build-a-quiz tool and 3,000+ self-assessment questions from specialty practice exams, OKU, and OITEs



Educational Programs

Successful partnerships with AOSSM, AAHKS, AAPA, AOFAS, ASES, The Hip Society, The Knee Society, OTA, POSNA, AANA, WOA

New Joint Arthroplasty Mountain Meeting (JAMM) presented by The Hip Society, The Knee Society, and AAOS,

New AAOS/ABOS/AOA/OREF collaboration to advance the role of simulation in surgical skills training & assessment







Maintenance of Certification

'MOC'





I: Professional Standing: Unrestricted License/Privileges

II: Continuing Medical Education: 240 CME/40 SAE

III: Knowledge Assessment: Proctored Examination

IV: Practice Improvement: Peer Review / Case List



Summer/Fall 2017: Survey on Maintenance of Certification (MOC) Part III sent to all ABOS Diplomates who had a time-limited Certificate

Response Rate: 60% (>10,000 Diplomates)

"Of the four MOC Part III Knowledge Assessment options, which one would you prefer to complete when your next Knowledge Assessment is due?"

Computer-Based Examination 41.2%

Longitudinal Assessment 39.8%

Virtual Practice Assessment 14.2%

Oral Recertification Examination 3.9%

ABOS Response: Announced launch of Web-Based Longitudinal Assessment (ABOS WLA) at the 2018 AAOS Annual Meeting



ABOS Certification Specialists



Last names beginning with **A-B**:

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Last names beginning with **C-G**:

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American Board of Orthopaedic Surgery: Web-Based Longitudinal Assessment Program

ABOS WLA





On the Forefront of Practice

Effective practice today is driven by a focus on quality.

AAOS satisfaction research shows that quality resources focused on evidence-based medicine are the most important products/services AAOS offers members.





Registries STRATEGIC PRIORITY

Academy Board approved significant multi-year investment to develop a family of orthopaedic registries

VALUE TO MEMBERS & PATIENTS

- 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



About AJRR



AJRR

- Founded in 2009, originally affiliated with AAOS
- From 1-15 to 10-17 independent organization
- Located in Orthopaedic Headquarters in Rosemont, IL



About AJRR



AJRR

- Longitudinal Registry focused on safety, recalls, and survivorship
- Evolved into a Registry that can assist with quality initiatives
 - Level III Patient-reported outcomes PRO (2016)
 - Level II Comorbidities and complications (2017)
- Majority of data come from where procedures are performed (hospitals, surgery centers) – component information
 - However, patient-reported outcomes are often captured in the practice
- AJRR Contracts with facilities
 - Submission of all procedural information on all of their surgeons



AJRR Data Elements

LEVEL I

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

LEVEL II

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

LEVEL III (Patient-reported Outcomes)

Recommended:

- PROMIS-10 Global
- VR-12
- HOOS/KOOS, JR.

Also Available:

- 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)

AJRR History & Milestones



AJRR

- 2010 started pilot program with 15 hospitals
- 2013 reached 200 hospitals
- 2014 received quality clinical data registry (QCDR) designation by CMS
- 2015 achieved coverage in all 50 states
- 2016 patient reported outcomes (Level III) launched
- 2017 officially endorsed by the Ambulatory Surgery Center Association (ASCA) and released LII comorbidities/complications data specs
- 2018 CMS Medicare claims data incorporation for risk adjustment







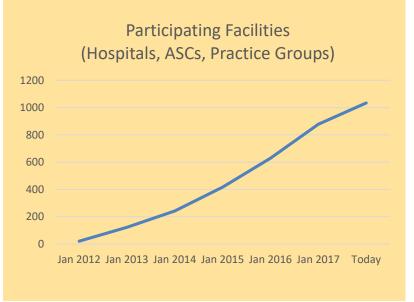


AJRR Stats Today:

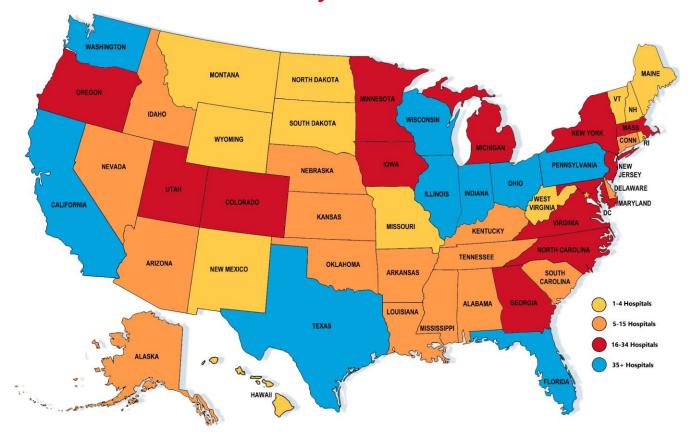
>1,000,000 PROCEDURES



surgeons



AJRR Hospital Recruitment: July 2017











White Memorial Medical Center

-Adventist Health





El Paso Specialty Hospital
Surgical Care Redefined
Proudly Physician Owned

Over 1,000 Current Locations















AN HCA AFFILIATE / A CAMPUS OF CJW MEDICAL CENTER







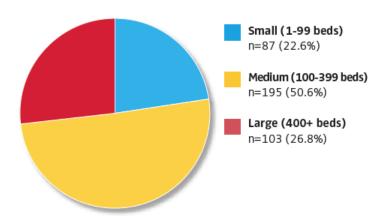


Hospital Size of AJRR Submitting Hospitals



AJRR

Figure 5: Hospital Size (Bed Count) of Submitting Hospitals (N=385)



Source: AHA Annual Survey Database Fiscal Year 2013

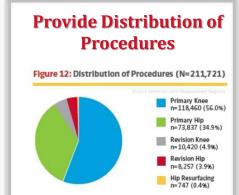
* Not all submitting hospitals had relevant data in the AHA survey

What Can AJRR Data Do Now?

Detail Surgeon Activities and Case Numbers

Table 1: 2014 Average Procedural Volume for Participating Surgeons (N=2,247)

	Total Surgeons	Total Procedures	Per Surgeon Average	Range	Number of Surgeons Who Submitted Only One Procedure
HIP					
Primary	1,822	42,249	23.2	1-317	295
Revision	757	4,624	6.1	1-76	229
KNEE					
Primary	1,617	64,552	39.9	1-522	182
Revision	1,045	6,143	5.9	1-103	308





Characterize US Implant Usage Patterns

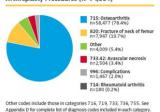
Table 2: Frequency and Percentage of Femoral Head Sizes Implanted by Year (N=74,833)

Excludes hemiarthroplasty

	2012 n(%)	2013 n(%)	2014 n(%)
<28mm	537 (4.9)	704 (3.2)	1,176 (2.8)
28mm	1,049 (9.6)	2,902 (13.2)	5,752 (13.7)
32mm	3,112 (28.5)	6,025 (27.4)	10,790 (25.7)
36mm	4,890 (44.8)	9,828 (44.7)	19,607 (46.7)
40mm	808 (7.4)	1,165 (5.3)	2,225 (5.3)
>40mm	515 (4.7)	1,363 (6.2)	2,435 (5.8)
Total	10,911	21,987	41,985



Figure 14: ICD-9 Diagnosis Codes for All Hip Arthroplasty Procedures (N=74,584)







Evolving Roles of Registry Data



Maintenance of Certification



Quality Reporting
MACRA/MIPS



Device Surveillance

- Pre- and Post-Market Studies
- Component Recalls



Reimbursement

- CMS
- Health Plans and Insurer Distinction Programs
- ASCs



Quality Measurement

 Hospital and Physician Level Benchmarking and Public Reporting



Lessons Learned / Barriers to Overcome

High cost of data entry, chart abstraction and audits

- ✓ Data entry must be electronic
- ✓ Use data elements from existing clinical documentation when possible
- ✓ Leverage existing HIT systems to reduce data entry and abstraction

Technical and legal obstacles for participation

- ✓ Need IT buy in lots of competing projects
- ✓ Surgeon champion extremely helpful
- ✓ A business associate agreement is required for every hospital and ASC – these need to be standardized

Unclear value proposition

- ✓ Provide pathways to satisfy reporting requirements CME, MOC, MACRA/MIPS, post-market surveillance, clinical trials
- ✓ Enhance quality assurance by regional and national benchmarking
- ✓ Provide centralized, scalable suite of registries to reduce costs and burden of participation



AAOS Future Registry Plans

Moving Forward

- √ 2017 strategic decision to develop a family of orthopaedic registries
- ✓ Established the Registry Oversight Committee that reports to the Board of Directors

Chaired by Dan Berry

Charged with developing priorities for registry development

Shoulder and Elbow next registry

Both total shoulder replacement and rotator cuff repair are in Medicare's top ten

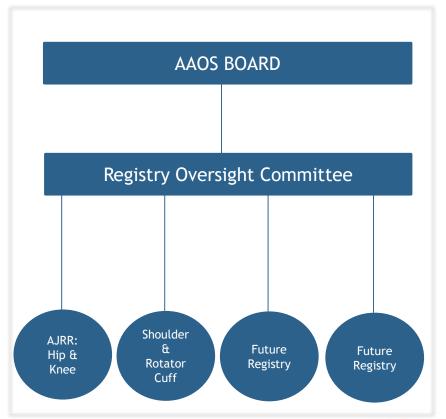
Shoulder and Elbow committee established and will meet at the AAOS meeting in New Orleans

- ✓ Envision registry presence in all nine orthopaedic specialties
- ✓ ? Biologics

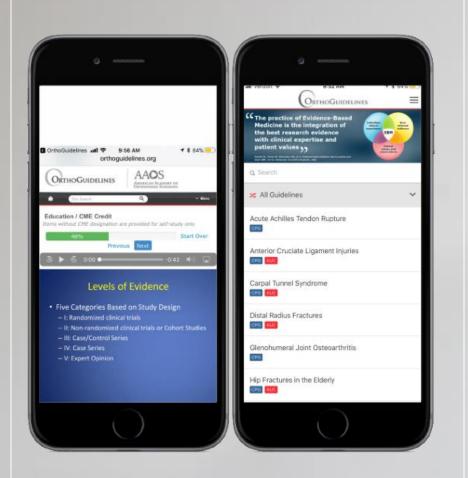
A RR American Joint Replacement Registry

Improving Orthopaedic Care Through Data









Quality Resources

CLINICAL PRACTICE GUIDELINES AND AUCS

OrthoGuidelines app developed for timely access

- 18 clinical practice guidelines
- 14 appropriate use criteria

NEW - Management of Osteoarthritis of the Hip CPG & AUC

Awarded \$1.5 million by the Department of Defense to develop 6 new guidelines and 6 new AUCs





Resident Assembly

Allows residents and residency programs to identify important issues and bring advisory opinions to the AAOS Board

- 152 delegates representing 70% of all U.S. and Canadian programs
- Five webinars for residents garnered 136 live attendees and 434 replays on demand





Physician Assistant & DO Membership

- New membership category for Physician Assistants
- Reviewing pathway for DO members to become full Fellows of the AAOS





International Engagement

 Currently there are 4,222 AAOS international members from 119 countries

 25 AAOS Fellows will serve as faculty in 10 international education programs in 7 countries in 2018

 The first AAOS Regional Meeting will be held in Dubai in 2019

Advocacy is Important







Advocacy

COLLABORATIVE APPROACH

AAOS achieves advocacy success by working collaboratively on leadership and outreach levels















Advocacy work ...

"NATIONAL WINS"

- Passed IPAB repeal
- Accomplished significant downsizing of mandatory CJR areas and cancellation of SHFFT bundled payment model
- Passed legislation to protect sports medicine professionals through the U.S. House of Representatives
- Passed legislation to reform unfair antitrust laws and ensure insurance company competition
- Attained increased protection for small, solo, and rural practices under the Quality Payment Program



- Submitted comments that resulted in the withdrawal of a harmful proposed rule on orthotics/prosthetics
- Received unprecedented access/representation at over 600 political events via Orthopaedic PAC
- Obtained CMS code change for total ankle



Advocacy works ...

STATE WINS

South Carolina Supreme Court agreed with two orthopaedic surgeons in their long fight protecting the integration of physical therapy and physician services.

Maryland Orthopaedic Association successfully advocated for an exemption from prohibition against self-referral as long as that compensation was from an advanced payment model.

In Nevada, Georgia, Tennessee, and Maine, governors signed laws allowing visiting sports team physicians to practice in a state where they are not licensed as long as they are licensed in another state.



Pennsylvania Orthopaedic Society successfully advocated for a state bill that ends harmful healthcare insurer practice of clawing back paid claims.





Advocacy

2018 PRIORITIES - DRIVEN BY THE AAOS UNIFIED ADVOCACY AGENDA

- Ensuring orthopaedic priorities in the implementation of MACRA's Quality Payment Program
- IPO List changes TKA --> THA → TSA -→ Spine
- Supporting medical liability and antitrust reform
- Preserving in-office ancillary services, physician owned hospitals, and other ownership issues
- Securing appropriations for orthopaedic research
- Championing orthopaedic concerns related to payment reform



Your Role ...

Engage: Ask questions, reach out to your State and Regional Orthopaedic Society

Explore our growing offering of free educational content for members at learn.aaos.org

Support





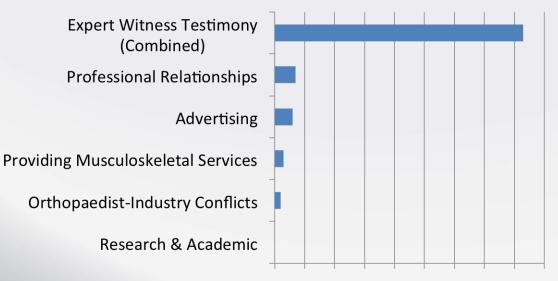
Help make the AAOS, your Academy ...





Standards of Professionalism (SOPs)

Percentage of Grievances Filed by SOPs



0% 10%20%30%40%50%60%70%80%90%



Professional Compliance Program Grievance Statistics 2005 - 2014

Total Grievances Submitted – 172

Grievances Dismissed (no prima facie) – 40

Grievances dropped/failed Admin Review – 58

Total Hearings:

Committee on Professionalism – 64 Judiciary Committee – 22 Board of Directors - 37



Professional Compliance Program

AAOS Professional Compliance Program
Grievance Actions

	Sanction	Forms of Publication			
		Letter to Opposing Party	AAOS Now	Medical board, ABOS, state orthopaedic societies	NPDB (patient care only) Total 22 to date
UNOFFICIAL ACTION	Letter of Concern (sent to either party)	Notice without details			
OFFICIAL	Reprimand	Notice with details			
	Censure	1	1	1	
	Suspension	1	1	1	1
	Expulsion	1	1	1	1



Professional Compliance Program Board Compliance Actions

- Letter of Concern 4

 (unofficial action that can be sent to Grievant or Respondent)
- Censure 12
- ➤ Suspension 24
- ➤ Expulsion 1

TOTAL BOARD ACTIONS - 41

Less than 25% of grievances submitted to date have resulted in compliance action (official and unofficial) by the Board of Directors.



Considerable Litigation

10 Legal cases so far --

Total Legal Expenses Paid by Insurance and AAOS through April 28, 2014:

\$6,041,851 (estimated figure)

Total AAOS Out of Pocket Legal Expenses Paid by AAOS through April 28, 2014:

\$2,064,460







