

Registry Overview

January 16, 2019

Introductions

Presenters

Kristina Finney, MPH
Senior Manager, Registry

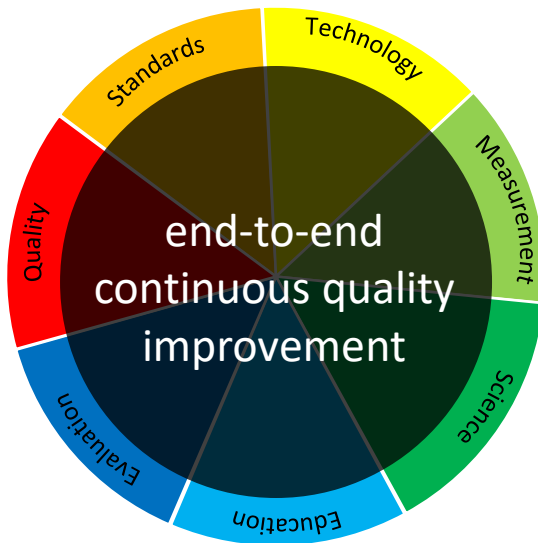
Dena Weitzman, OD
Analytics Lead, Registries

Maria Gomes
Registry Support Specialist

Frosiana Gjerazi
Registry Engagement Associate

Registry Program Overview

Quality Vision

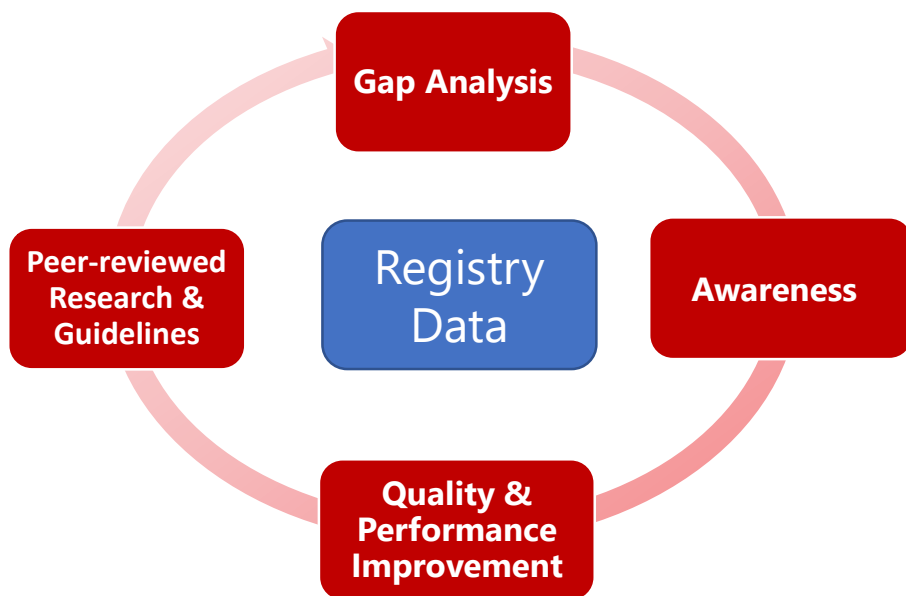


Registries

- **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

At the Core of Academy Strategy



Registry Effort Goals

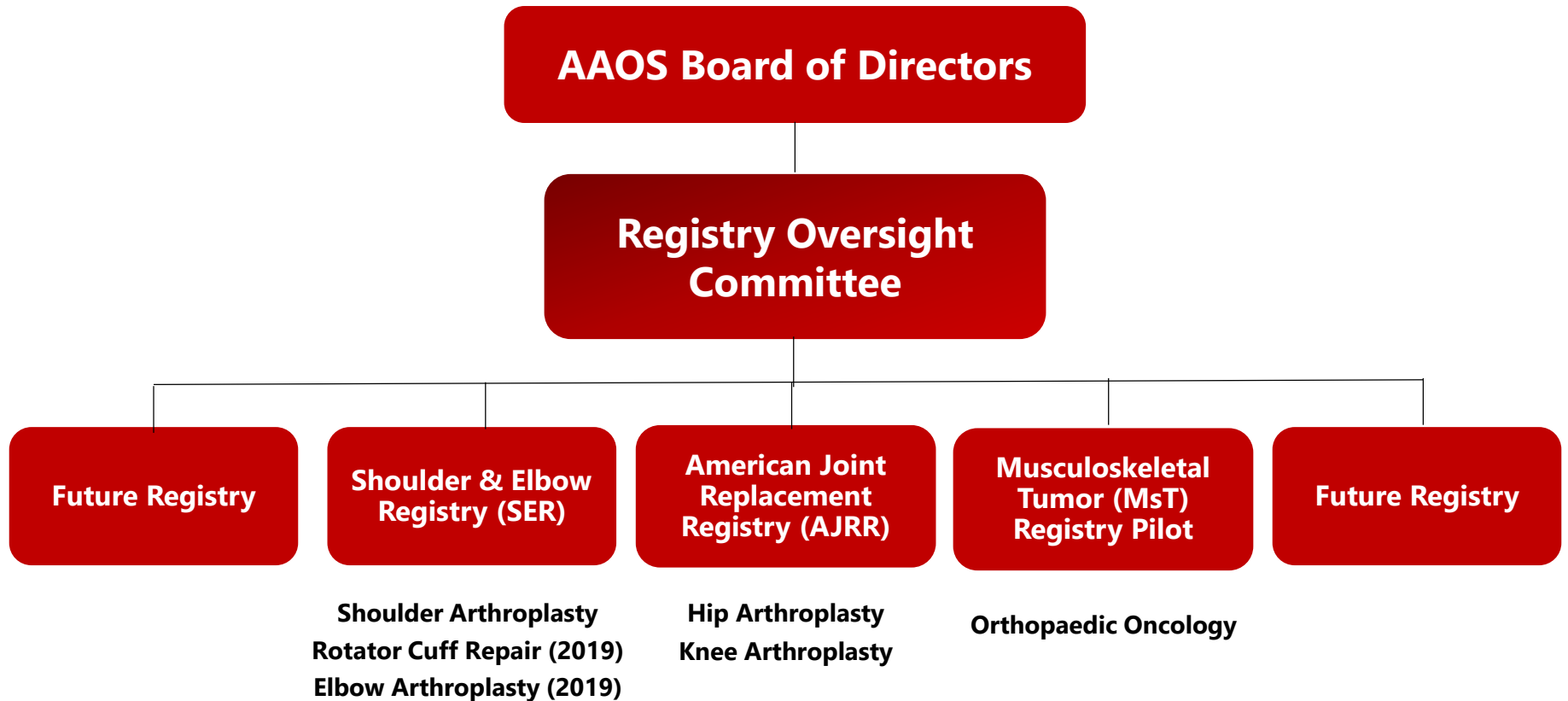
- ✓ Collect unique clinical information demonstrating ***real-world practice***
- ✓ Enable ***performance measurement*** by physicians for physicians
- ✓ Facilitate national registry-driven ***quality improvement*** programs
- ✓ Support novel scientific ***research***

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
- 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

AAOS Family of Registries



Data Insights for Orthopaedics

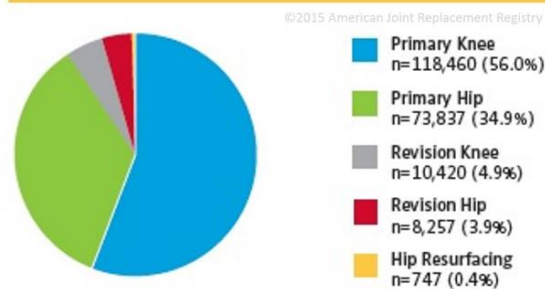
Detail Surgeon Activities and Case Numbers

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

Provide Distribution of Procedures

Figure 12: Distribution of Procedures (N=211,721)



Track Patient Reported Outcomes

HOME FROM HOME

Quick Links

- SEARCH AUTHOR
- CASE AUTHOR
- SURGEON AUTHOR

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	21.7%	0%	19.2%
AJRR Test Hospital 3	0%	0%	0%
AJRR Test Hospital 4	19.1%	7.7%	16.1%

Stats

Registry Total Procedures: **242.69 K**

Your Total Assessments: **58**

Your Pre vs Post Completions: **99%**

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

Characterize US Implant Usage Patterns

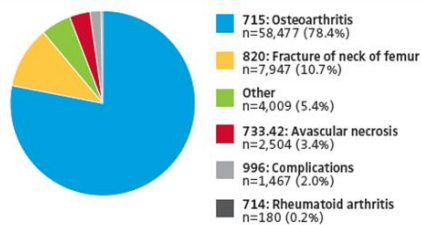
Table 2: Frequency and Percentage of Femoral Head Sizes Implanted by Year (N=74,833)

	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

Excludes hemiarthroplasty

Show Top Reasons for TJA Procedures

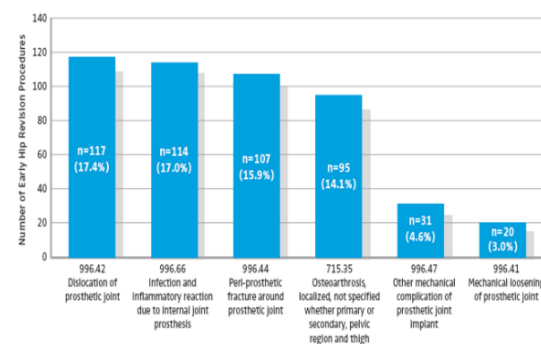
Figure 14: ICD-9 Diagnosis Codes for All Hip Arthroplasty Procedures (N=74,584)



Other codes include those in categories 716, 719, 733, 736, 755. See Appendix D for complete list of diagnosis codes included in each category.

Characterize Causes of Early Revision

Figure 27: Most Frequently Reported ICD-9 Diagnosis Codes for Hip Revisions (<3 Months to Revision)



Data Collection

Shoulder Arthroplasty Module Data Elements

Procedural

Patient

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

Hospital/Practice

- Name and Address

Surgeon

- Name (National Provider Identifier)

Procedure

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

Post-op/Comorbidities

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

Patient-reported Outcomes

- PROMIS-10 Global
- VR-12
- SANE
- ASES

First module around Shoulder Arthroplasty launched October 24, 2018

Future modules around Rotator Cuff Repair and Elbow Arthroplasty in 2019

Patient-Reported Outcomes

Supported PROMs for SER

Functional

PROMIS-10 Global

VR-12

Anatomical

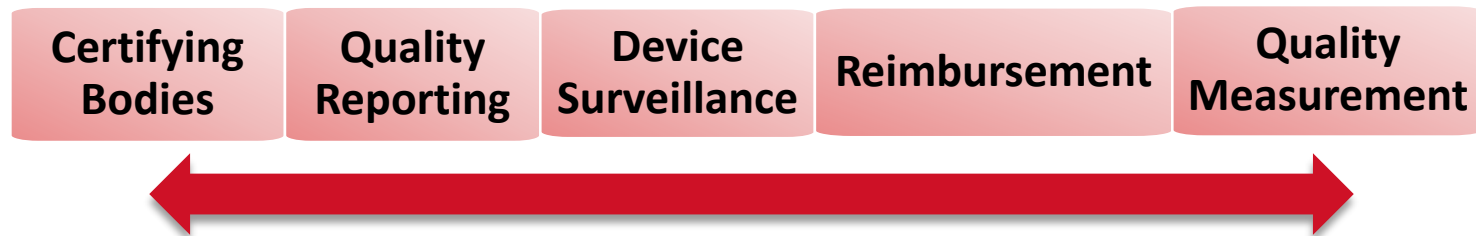
SANE

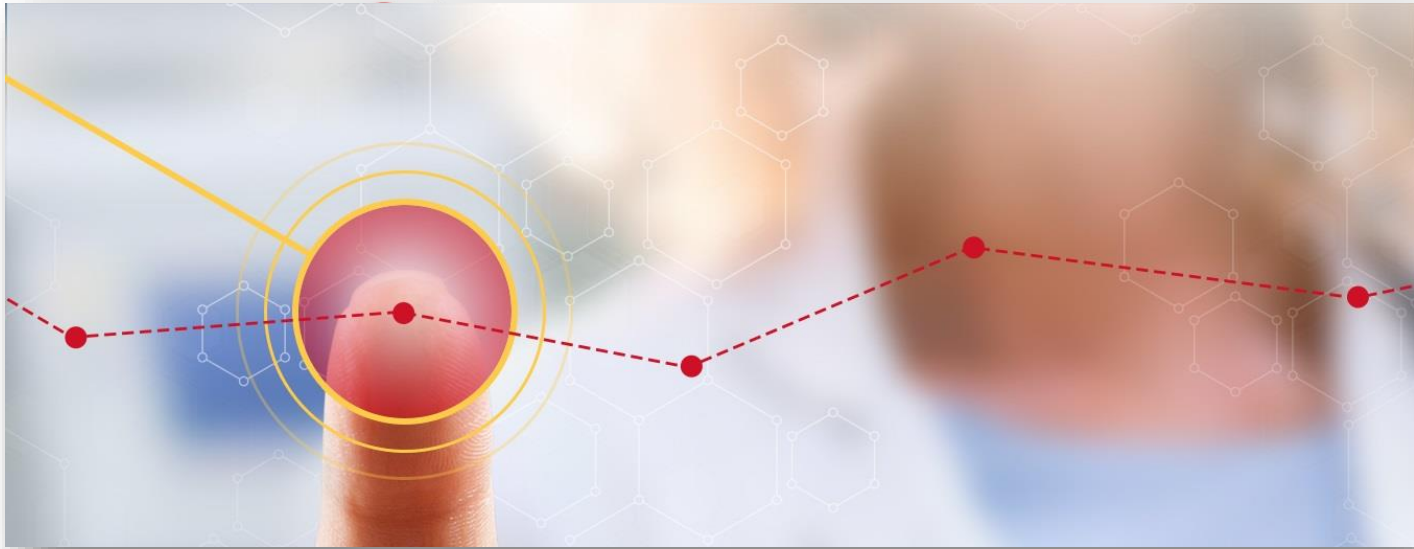
ASES

- We collect only these four
- Sites are not required to submit but at least one is recommended
- Submission can be done manually or automatically with our online kiosk

Re-use of Registry Data

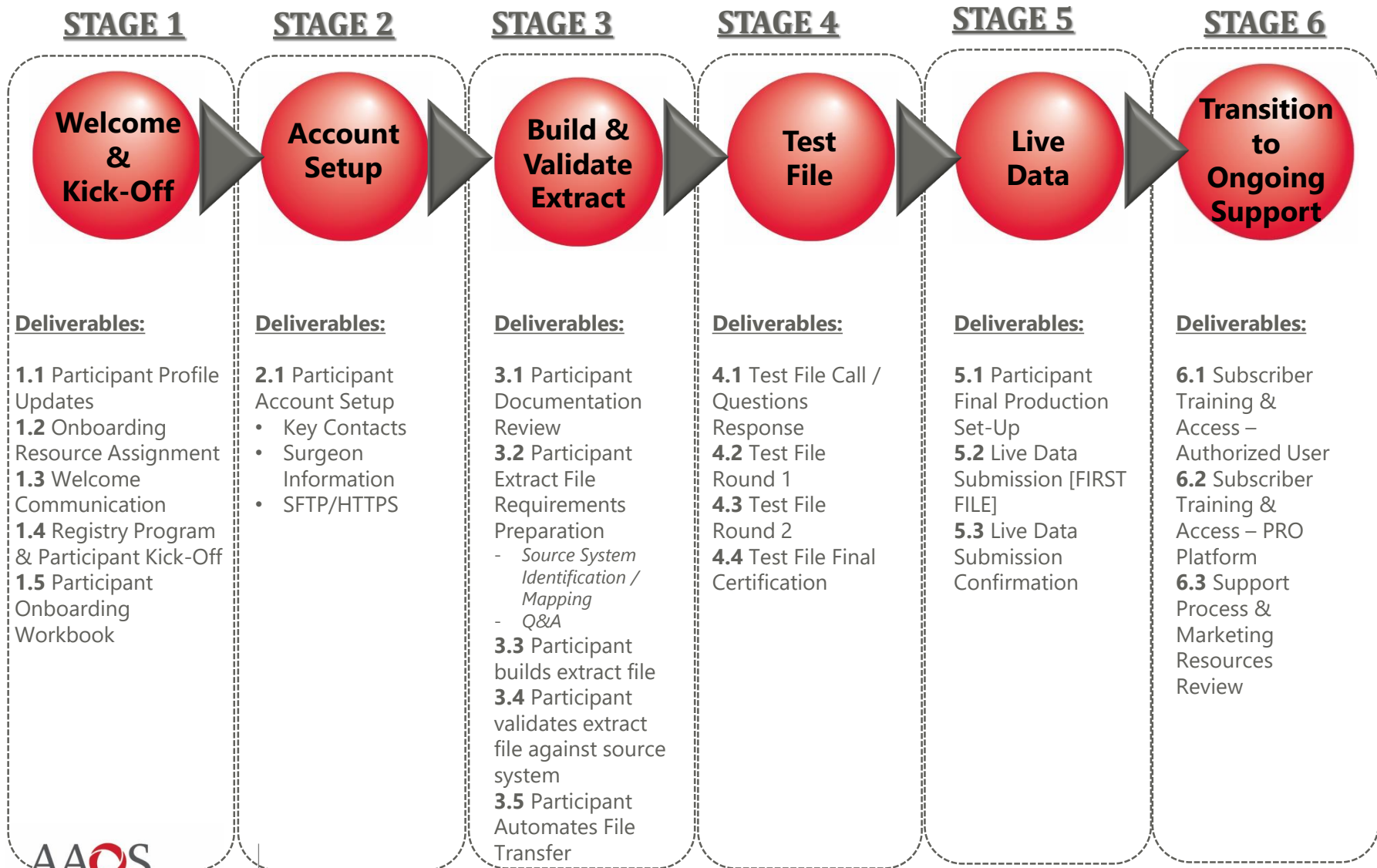
- Calculate national performance benchmarks
- Access to on-demand practice specific quality reports and dashboards to compare locally, regionally, and nationally
- Track and monitor outcomes with longitudinal patient information
- Reduce complications and revision rates across sites
- Support quality 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, TJC





Onboarding

SIX STAGES TO SUCCESSFUL SUBMISSION




Data Submission Options

Upload File

Please provide a valid excel file to preregister patients and cases in bulk.

Institution*



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

Submission Best Practices

- You can monitor data submission uploads and errors by logging into [RegistryInsights™](#)
- On Homepage: ***Latest file Upload***
 - Indicates when the last file was uploaded
 - Number of cases submitted
 - Number of cases with issues
 - Option to correct & resubmit
- Most participants submit monthly but we encourage submitting at least every 90 days
- We can work with your site's technology team or vendor to set-up automated submissions

Getting Started

Contracting

- Master Participation Agreement
 - Simple 2-page appendix for current AJRR participants
- Business Associate/Data Usage Agreement
- Security Assessment

Participation Fee Structure

- Single institution, 1-year licensing fee **\$3,500**
- **\$750** 1x configuration fee
- Discounts are available
- Includes
 - ✓ Unlimited access to RegistryInsights™ dashboards and reports
 - ✓ PRO Platform – can administer surveys
 - ✓ Ongoing support
 - ✓ Inclusion in User Group Network (Unet)

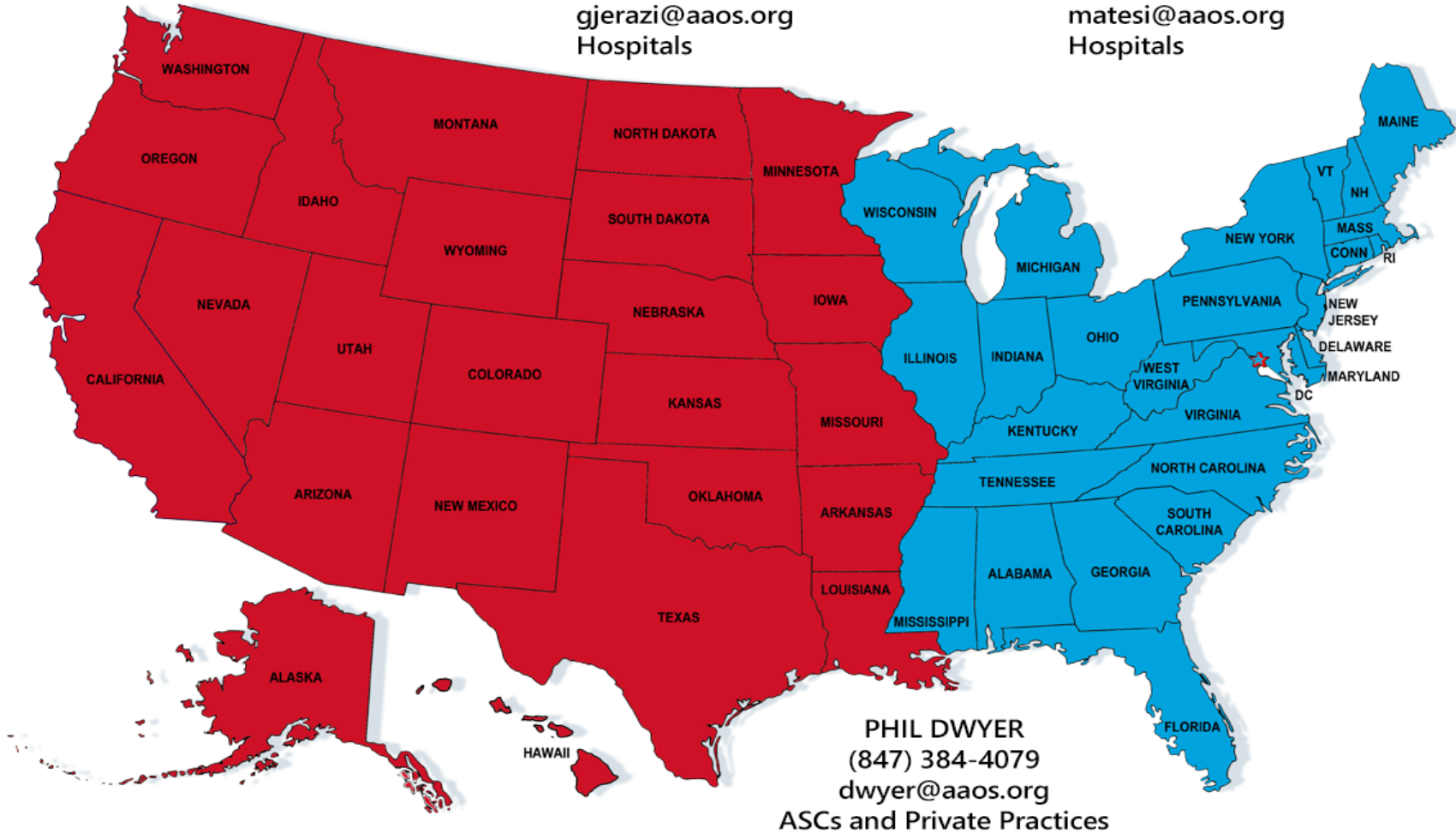
Contact Your Registry Engagement Associate



FROSIANA GJERAZI
(847) 384-4193
gjerazi@aaos.org
Hospitals



MARIAH MATESI
(847) 384-4080
matesi@aaos.org
Hospitals



PHIL DWYER
(847) 384-4079
dwyer@aaos.org
ASCs and Private Practices

Thank you!

*NEXT
WEBINAR* >

“RegistryInsights Surgeon
Dashboards 101”

Date: 2/13/2019

Time: Noon CST

Kristina Finney (finney@aaos.org)

Dena Weitzman (weitzman@aaos.org)

Maria Gomes (gomes@aaos.org)

Frosiana Gjerazi (gjerazi@aaos.org)

Commonly Asked Questions

Data Submission

- What is the format of data to be uploaded?
- How often should a site submit?
- Are all data elements required?
- If a site is utilizing a 3rd party to collect data, is it necessary to collect the same data twice?

Participation and Fees

- How much does it cost to participate?
- Are fees for each Registry separate?

PROMS

- What Patient-Reported Outcomes are collected? Are all mandatory?
- At what intervals are PROMS collected?
- Can a site choose which PROM to use?
- How are PROMs submitted?