



Registry Program
Improving Orthopaedic Care Through Data

Informing the Future of the Fracture & Trauma and Shoulder & Elbow Registries

February 15th, 2023

Agenda

- Introduction
- FTR – Data Snapshot
- FTR – Value of Registry Data & Benefits of Surgeon Participation
- FTR – Data in Practice
- FTR – Future Directions
- SER – Data at a Glance
- SER – Updates & Benefits
- SER – Data in Practice
- SER – Future Directions
- Registry Impact
- Q&A

SER & FTR | Introduction

Shoulder & Elbow Registry

Established in 2017, launched to public in 2018

3 modules:

- Shoulder Arthroplasty
- Elbow Arthroplasty
- Rotator Cuff Repair

Fracture & Trauma Registry

Established in 2021, launched to public in 2022

5 modules:

- Ankle Fracture
- Distal Femur Fracture
- Distal Radius Fracture
- Hip Fracture
- Proximal Humerus Fracture



FTR Steering Committee

- **Michael J. Gardner, MD, FAAOS – Chair**
Stanford University
- **Jaimo Ahn, MD, PhD, FAAOS:**
University of Michigan
- **Kyle J. Jeray, MD, FAAOS**
Prisma Health
- **Douglas W. Lundy, MD, MBA, FAAOS**
St. Luke's University Health Network
- **Saam Morshed, MD, PhD, MPH, FAAOS**
University of California, San Francisco
- **William T. Obrebsky, MD, MPH, FAAOS**
Vanderbilt Ortho Institute
- **Steven A. Olson, MD, FAAOS**
Duke Hospital
- **Heather A. Vallier, MD, FAAOS**
Case Western Reserve University
- **Philip R. Wolinsky, MD, FAAOS**
Dartmouth Medical Center

Thank you to our FTR Participating Sites

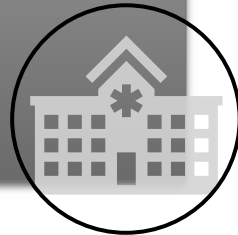
40 sites and growing...

- Hartford Hospital
- Lahey Hospital & Medical Center
- NYU Langone Medical Center
- Massachusetts General Hospital
- University of Pennsylvania Health System **(3)**
- Santa Clara University Hospital
- Stanford Health Care
- UCHealth (Colorado) **(12)**
- UCSF
- University of Louisville Hospital
- Vanderbilt University Medical Center
- Orthopedic One
- SSM Health DePaul Hospital - St. Louis
- St. Luke's University **(5)**
- Palomar Health
- University of Texas San Antonio
- NorthShore University
- UT Southwestern
- Ohio State University
- Jamaica Hospital Medical Center
- University of Arkansas for Medical Sciences
- OHSU - Oregon Health & Science University

FTR | Data at a Glance

24

Number of Sites
Submitting Data



14,310

Procedure
Count



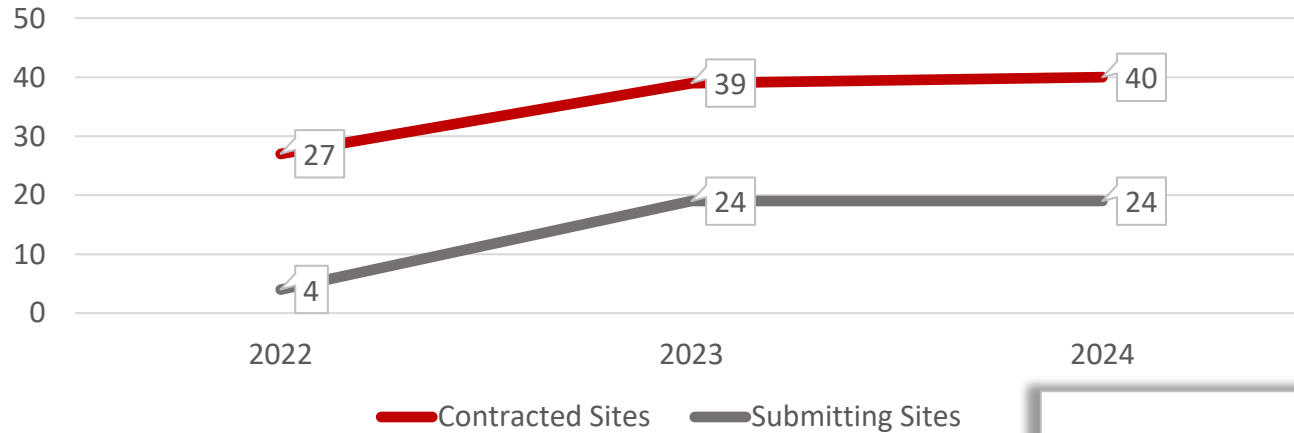
80

Linked PostOp
Count

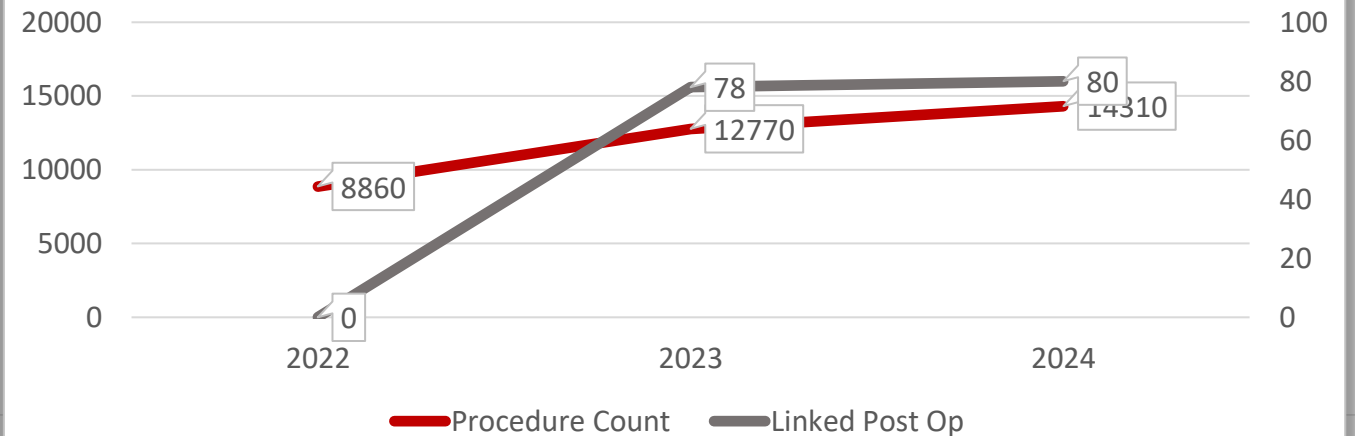


FTR | Growth Since Inception

Registry Participation



Case Counts



FTR | Powered by PatientIQ

Automated Submission to FTR

PatientIQ will aggregate, validate, format and submit all procedural, post-operative, & patient-reported data, and Supplemental Data to FTR



Delivering Value for AAOS Fracture & Trauma Surgeons



Compare your practice to **national performance benchmarks**



Access to on-demand surgeon specific **reports and dashboards**



Monitor longitudinal patient outcomes (**Medicare data**)



Attain certification credits for **ABOS MOC**



Facilitate site, practice-specific, **performance improvement & accreditation** programs such as Blue Distinction & DNV Centers of Excellence



Use for reporting to **quality improvement programs** such as the QPP Merit-based Incentive Payment System (MIPS)

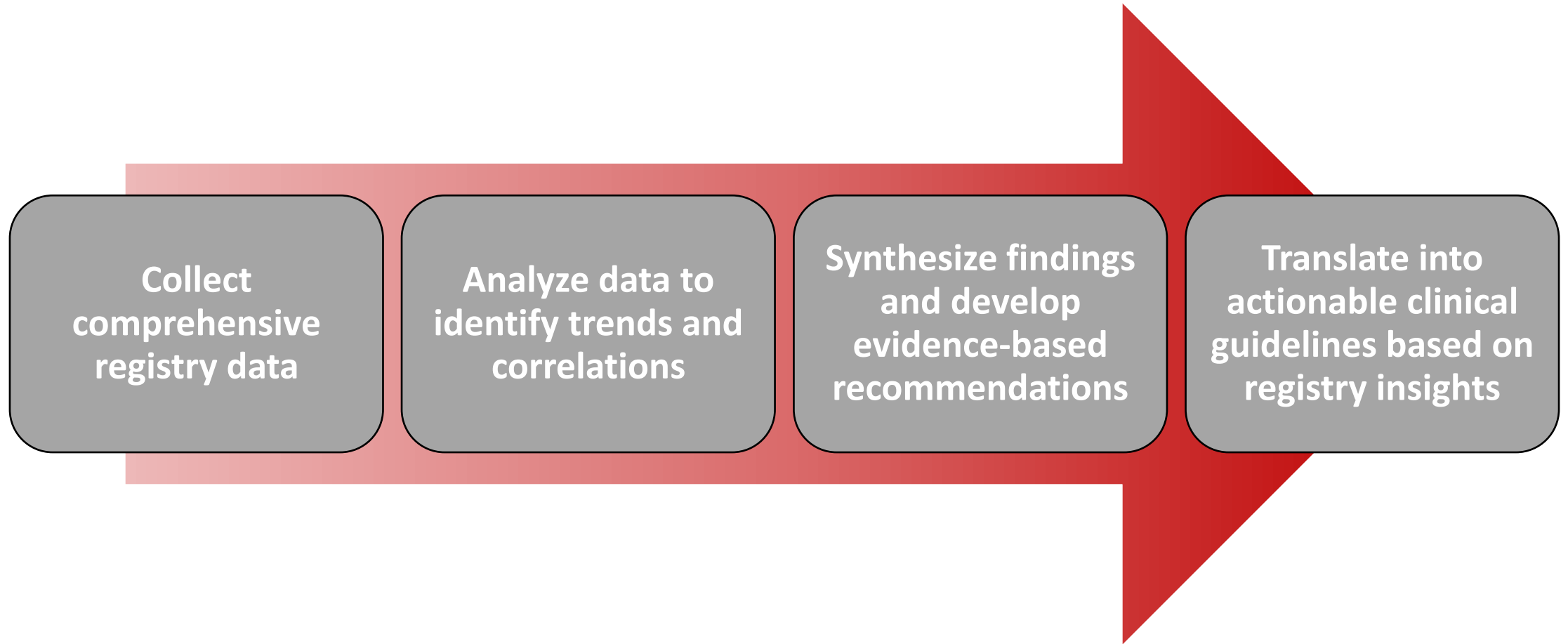


Inform orthopaedic practice & contribute to **orthopaedic advocacy**



Improve the **value of care** delivered to Patients

Data in Practice | Informing Future Measures



FTR | Future Directions

Enhanced Visualizations and Reports in FTR Dashboards:

Improved visual representations and reporting tools.

Advancement of Meaningful Measures for Fracture and Trauma Care:

Increasing the volume of post-operative data and patient-reported outcomes to aid in the development of Clinical Practice Guidelines.

Quality Reporting and Accreditation:

Inclusion in CMS Quality Payment Programs and compliance with Inpatient and Outpatient Quality Reporting standards.

Expanded Research Opportunities:

Development of an expanded fact sheet moving towards the creation of a comprehensive annual report.

New Participation Option:

Introduction of upcoming EPIC SmartForms currently being developed by Duke University.



Registry Program
Improving Orthopaedic Care Through Data

SER

Thank you to our SER Participating Sites

Over 150 Sites

- Atrium Health
- Baptist Health **(8)**
- Intermountain Hospital System **(19)**
- Main Line Health **(4)**
- Indiana University Health
- Massachusetts General Hospital
- Midwest Orthopaedic Specialty Hospital
- Northwell Health **(3)**
- Rush University Medical Center **(5)**
- St. Luke's Health System **(7)**
- Stanford Healthcare
- Trinity Health System **(28)**
- University of Iowa Hospitals and Clinics
- Vanderbilt University Medical Center
- Yale New Haven Hospital

SER Steering Committee

Grant E. Garrigues, MD, FAAOS – Chair

Midwest Orthopaedics at Rush

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Stephen C. Weber, MD, FAAOS

The Johns Hopkins School of Medicine

Mariano Menendez, MD

Oregon Shoulder Institute at Southern Oregon Orthopedics

Claude Jarrett, MD, FAAOS

Wilmington Health Orthopaedics and Sports Medicine

SER | Data at a Glance

150+

Number of
Contracted Sites



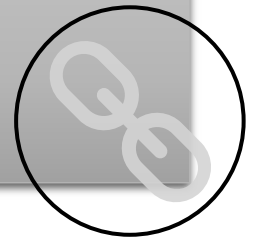
37K

Procedure
Count



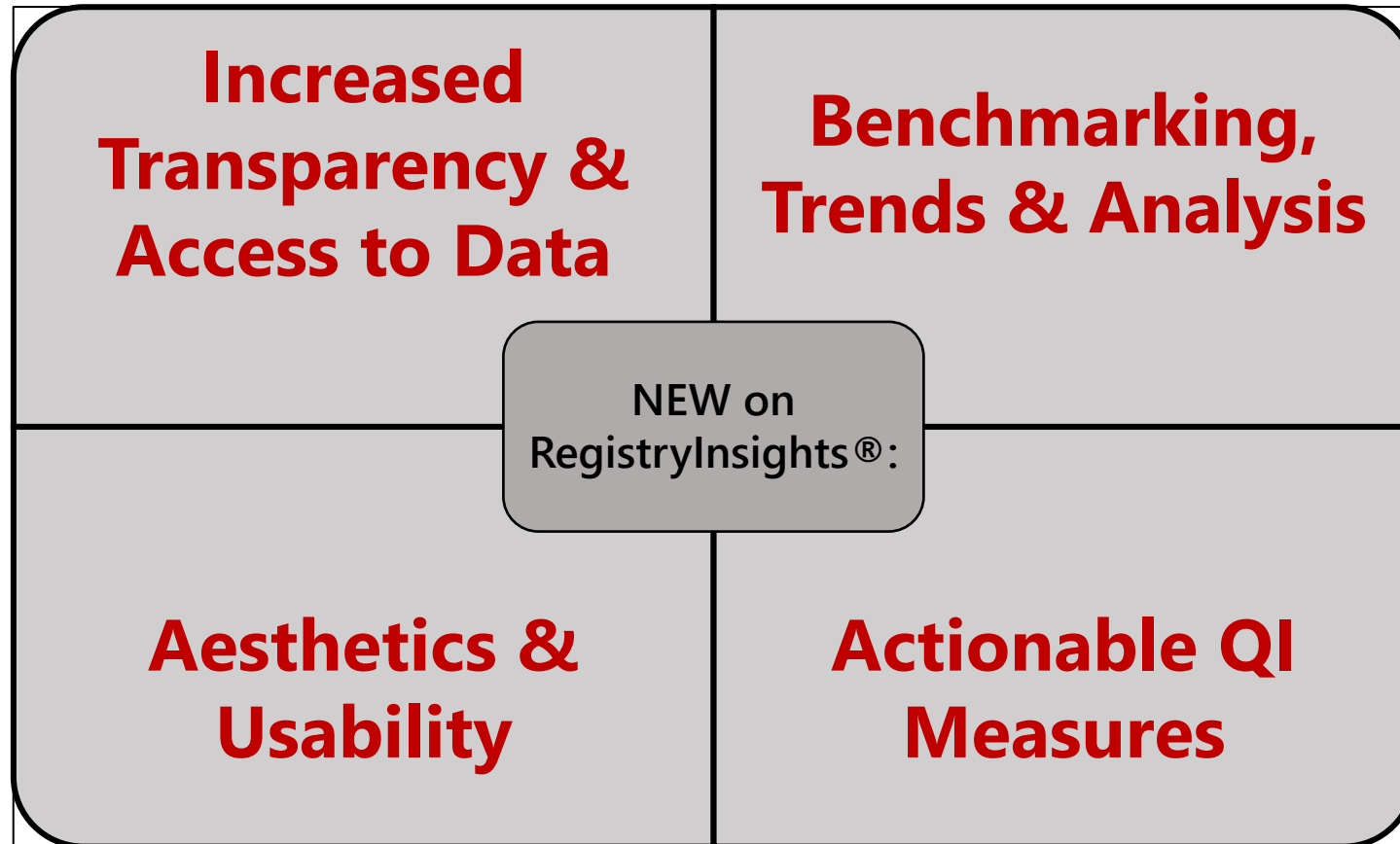
72

Linked PostOp
Count



SER | Enhancements and Updates

Upcoming: Next Gen Dashboards



SER | Benefits and Value

- Custom reports created by our analytics team
- Shoulder Arthroplasty Predictive Model (SHARP) created
- Facilitate site, practice-specific, payer-incentivized performance improvement programs
- Early access to surveillance alerts for poorly performing implants
- Ability to improve the value of care delivered to patients

Data in Practice | Enhancing Patient Care & Safety

Analyze SER data on post-operative outcomes

Correlate patient demographics and comorbidities with extended recovery

Develop targeted interventions based on patient characteristics

Optimize patient care by tailoring pathways to demographics and comorbidities

SER | Future Directions

Enhanced Filters and Benchmarks in SER Dashboards:

Identify variations in outcomes across gender, race, age, and care setting (IP vs OP)

Procedure Type

All

PX Code Type

All

Diagnosis

All

Length of Stay

All

Payer Status

All

Institution

All

Age Groups

All

Gender

All

Race

All

**These filters only affect the "National" values in the visuals below*

Institution Type

All

Bed Count

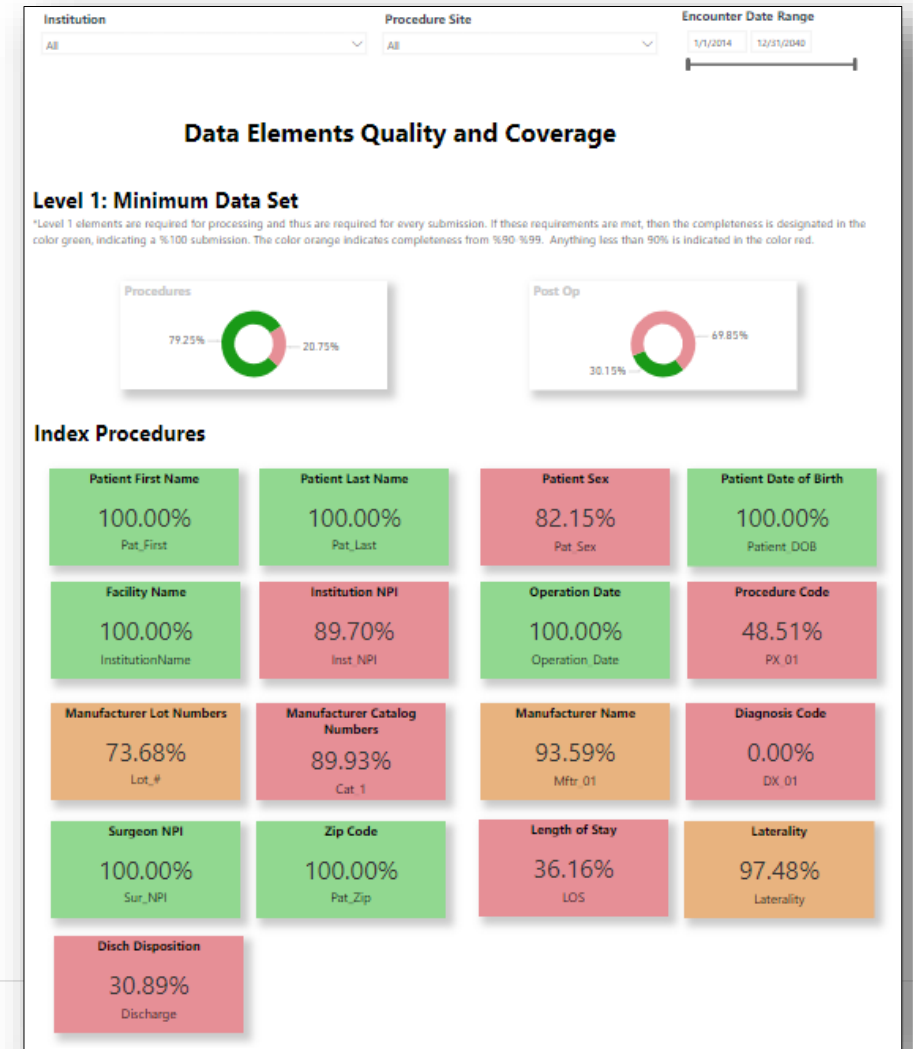
All

Teaching Status

All

Enhanced Visualizations and Reports in SER Dashboards:

Data Elements and Quality Coverage dashboard will be available for a closer look at submissions

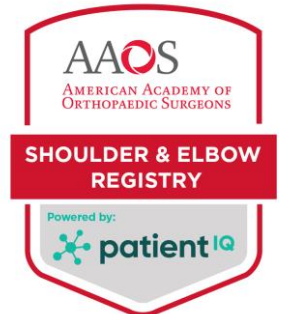


SER | Powered by PatientIQ Expansion

- **Within eight months, FTR Powered by PatientIQ yielded:**
 - A 20% increase in data submitted
 - 20 new participating sites
- Given the swift success of the offering, AAOS sought to expand access outside of the FTR to the other clinical registries, beginning with the SER

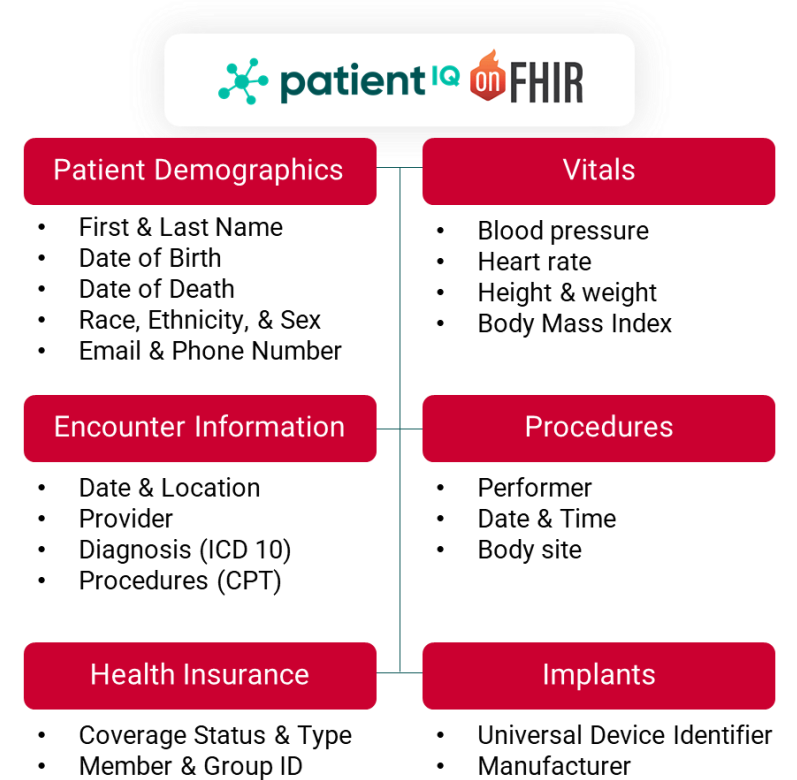
"Since the inception of the Shoulder & Elbow Registry, the AAOS has sought to revolutionize the way data can be leveraged to improve patient care. PatientIQ's technology and expertise in orthopedic data collection and analysis furthers our ability to establish best practices and optimize patient outcomes."

Grant E. Garrigues, MD, FAAOS
SER Steering Committee Chair



SER | Ease of Participation with PatientIQ

- Automated Patient Enrollment into SER Pathways
- Automated Patient Engagement to Collect PROs
- Required Data Auto-Extracted by PatientIQ
- Optional Supplemental Data Collection
- Monthly Automated Submission to SER



SER | Future Impact

The overall quality, accuracy, and completeness of Registry data will be enhanced by how robust the data set is, the ability to do research on the data brought in, as well as continuous advancements to the data

Enriched Data Set

Comprehensive and detailed datasets support more robust analyses, leading to better-informed decision-making, research outcomes, and quality improvement initiatives

Research

Opportunities are available when the data sets are standardized and thus able to be compared and analyzed to create patient-centered policies and guidelines to advance patient care

Continuous Advancement

Helps fill gaps and ensures that the more data we have collected the more attention we can give to featured that further this data

Learn More

- PatientIQ is exhibiting – Stop by booth #6141
- Get more information about the offering email RegistryEngagement@aaos.org, call 847-292-0530, or visit www.aaos.org/registries
- Learn more about PatientIQ by visiting www.patientiq.io



Questions?