

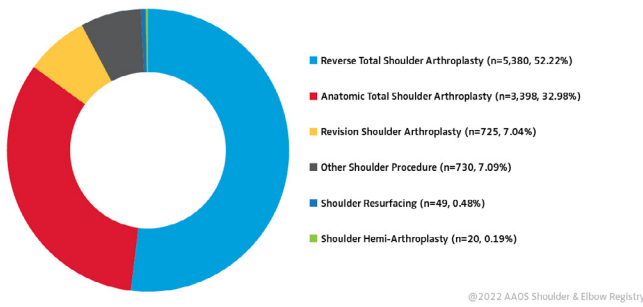
# Shoulder & Elbow Registry 2022 Annual Report Highlights

The AAOS Shoulder & Elbow Registry (SER) 2022 Annual Report is the third annual report reflecting data related to procedures performed in the SER participating institutions between 2015 and 2021. In total, there have been 17,617 submitted patient procedures among the 140 participating facilities including hospitals, private practices, and ambulatory surgical centers spanning 40 states across the U.S.

## Shoulder Arthroplasty

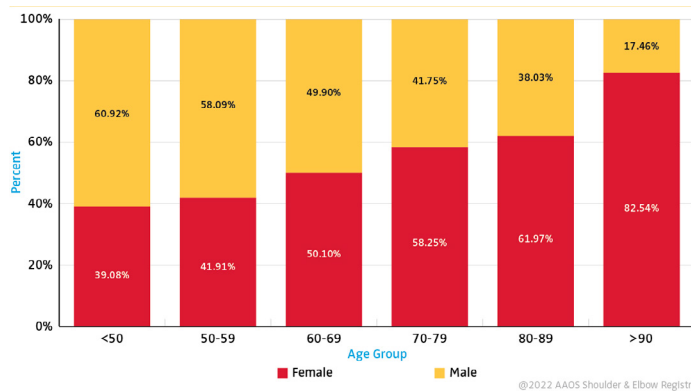
There were 10,302 shoulder arthroplasty procedures submitted to the SER dating 2015-2021. Of the total shoulder arthroplasty procedures, most were reverse total shoulder arthroplasty (52.2%) (Figure 2.1)

**Figure 2.1** Distribution of Shoulder Arthroplasty Procedures, 2015-2021 (N=10,302)



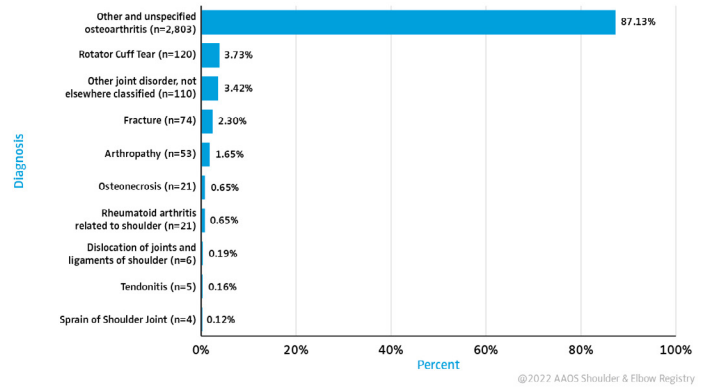
The sex distribution for shoulder arthroplasty procedures varied by age group (Figure 2.3). However, there was a decreasing trend in the proportion of males undergoing a shoulder arthroplasty with each increasing decade of life (Figure 2.3)

**Figure 2.3** Sex Distribution for All Shoulder Arthroplasty Procedures by Age Group, 2015-2021 (N=9,226)

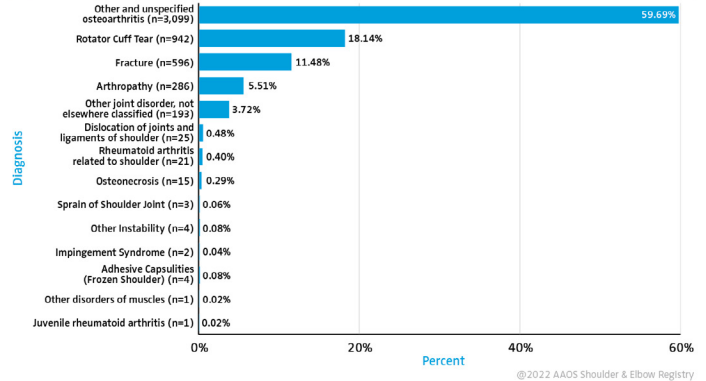


The most frequent primary diagnosis for total shoulder arthroplasty procedures was "other and unspecified osteoarthritis," which includes primary, secondary, and post-traumatic osteoarthritis (Figure 2.6a; Figure 2.6b). Rotator cuff tear was the second largest primary diagnosis for reverse total shoulder arthroplasty (18.1%) (Figure 2.6b).

**Figure 2.6a** Primary Diagnosis for Anatomic Total Shoulder Arthroplasty Procedures, 2015-2021 (N=3,217)



**Figure 2.6b** Primary Diagnosis for Reverse Total Shoulder Arthroplasty Procedures, 2015-2021 (N=5,192)



## Rotator Cuff Repair

There were 6,724 procedures submitted to the SER rotator cuff repair module dating 2015-2021. These procedures were categorized as arthroscopic rotator cuff repair, open rotator cuff repair, open rotator cuff repair w/ acromioplasty, and other shoulder procedure, all defined by CPT codes (Table 3.1).

**Table 3.1** Frequency and Age of Rotator Cuff Procedures by Group Type, 2015-2021

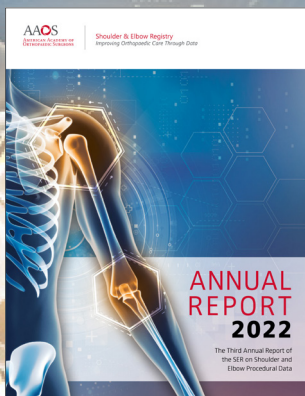
Rotator Cuff Procedural Grouping	CPT Code	Frequency	% of Total	Mean Age	SD Age
<b>Arthroscopic Rotator Cuff Repair (N=3,974)</b>	<b>29827</b>	<b>3,974</b>	<b>—</b>	<b>—</b>	<b>—</b>
w/ Subacromial Decompression	29826	3,096	77.9%	59.61	10.10
w/ Biceps Tenodesis	29828 or 23430	1,622	40.8%	58.89	9.69
w/ Distal Clavicle Excision	29824 or 23120	1,023	25.7%	59.76	9.80
w/ Debridement	29822 or 29823	891	22.4%	60.68	9.93
w/ SLAP Repair (Superior Labrum Anterior and Posterior)	29807	154	3.9%	54.58	11.34
w/ Lysis of Adhesions	29825	46	1.2%	62.20	8.73
w/ Capsulorrhaphy	29806	31	0.8%	51.00	16.77
w/ Bankart Procedure	23455	3	0.1%	52.33	6.66
<b>Open Rotator Cuff Repair (CPT 23410 or 23412) (N=210)</b>	<b>23410 or 23412</b>	<b>210</b>	<b>—</b>	<b>—</b>	<b>—</b>
w/ Arthroscopic Debridement	29823 or 29822	112	53.33%	59.82	11.24
w/ Distal Clavicle Excision	23120	60	28.57%	59.85	10.57
w/ Biceps Tenodesis	23430	70	33.33%	57.79	10.24
w/ SLAP Repair	29807	12	5.71%	55.42	9.99
w/ Bankart Procedure	23455	4	1.90%	47.75	15.48
w/ Capsulorrhaphy	29806	3	1.43%	39.67	8.39
w/ Acromioplasty	23130	2	0.95%	58.00	4.24
<b>Open Rotator Cuff Repair w/ Acromioplasty (Reconstruction of Complete Rotator Cuff Avulsion) (N=179)</b>	<b>23420</b>	<b>179</b>	<b>—</b>	<b>—</b>	<b>—</b>
w/ Distal Clavicle Excision	23120	132	73.74%	60.98	9.90
w/ Arthroscopic Debridement	29824 or 29822	128	71.51%	60.92	9.64
w/ Biceps Tenodesis	23430	25	13.97%	57.68	8.58
w/ SLAP Repair	29807	18	10.06%	58.72	9.69
w/ Capsulorrhaphy	29806	2	1.12%	67.00	12.73
<b>Other Shoulder Procedure Groupings (N=2,460)*</b>	<b>—</b>	<b>2,460</b>	<b>—</b>	<b>—</b>	<b>—</b>
Shoulder Arthroscopy, Extensive Debridement	29822 or 29823	730	29.67%	50.14	14.14
Shoulder Arthroscopy, Subacromial Decompression	29826	628	25.53%	51.33	12.31
Capsulorrhaphy	29806	410	16.67%	30.62	12.45
Biceps Tenodesis	23430 or 29828	457	18.58%	49.27	13.24
SLAP Repair	29807	394	16.02%	38.91	13.32
Shoulder Arthroscopy, Distal Clavicle Excision	29824	406	16.50%	52.57	12.69
Clavicular ORIF	23515	262	10.65%	42.56	17.46
Open Distal Clavicle Excision	23120	187	7.60%	48.56	12.79
Shoulder Arthroscopy with Lysis of Adhesions	29825	171	6.95%	52.65	10.56
Other Upper Arm Tendon or Muscle Repair	24341	112	4.55%	49.37	15.25

\*Excludes cases with CPT 29827, 23412, 23410, 23420

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## Reach out to learn more and get started with SER

- Participating surgeons receive personal data on procedure, post-op, and patient-reported outcome measures dashboards that provide national benchmarking
- Surgeons can obtain American Board of Orthopaedic Surgery Maintenance of Certification credit for utilizing the dashboards
- As a Qualified Clinical Data Registry, SER qualifies for quality and accreditation programs including Centers for Medicare & Medicaid Services Merit-based Incentive Payment System Promoting Interoperability and Det Norske Veritas Healthcare orthopaedic certifications
- The Registry Program advocates for your specialty by contributing available information on shoulder and elbow procedures and providing actionable data



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