

CMM-318: Shoulder Arthroplasty Replacement/Resurfacing/Revision /Arthrodesis

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CMM-318.1: Definition

- **Shoulder arthroplasty** is an orthopedic surgical procedure during which the articular surface of the shoulder joint is replaced, remodeled, or realigned.
- **Shoulder replacement** is a form of arthroplasty that includes the surgical replacement of the shoulder joint with a prosthesis.
- **Prosthesis** refers to an artificial device used to replace a structural element within a joint to improve and enhance function.
- **Hemi-arthroplasty (replacement)** is a surgical technique that involves replacing the humeral head and not replacing the glenoid (socket), which is typically the best option if the glenoid does not have any arthritis or if there is some concern that the glenoid component might fail if it is replaced.
- **Total shoulder arthroplasty (replacement)** is a surgical technique that involves replacing the humeral head and the glenoid. A total shoulder arthroplasty is typically the best option if the glenoid is damaged, but sufficient bone and rotator cuff remain to ensure that the glenoid component will last.
- **Reverse total shoulder arthroplasty (replacement)** is a surgical technique that involves replacing both the humeral head and the glenoid, but the ball and socket are reversed to improve muscle function. This allows the deltoid muscle, which has a longer movement arm, to generate greater force, allowing it to act in place of an inadequate functioning or torn rotator cuff.
- **Revision of shoulder arthroplasty (replacement)** is a technique that involves surgical reconstruction or replacement due to failure or complication of previous shoulder arthroplasty.
- **Shoulder resurfacing** is a surgical technique that involves replacing the diseased part of the shoulder joint without replacing the humeral head. Resurfacing of the humeral head involves a prosthetic metal covering or cap to provide complete or partial coverage. It can be performed alone (hemi-resurfacing) or in combination with glenoid resurfacing (total or partial shoulder resurfacing).
- **Shoulder arthrodesis** is a surgical resection and fusion of the shoulder (glenohumeral) joint.
- **Rotator cuff tear arthropathy** is a condition that results from **ALL** of the following:
 - ◆ Rotator cuff insufficiency (e.g., secondary to irreparable massive rotator cuff tear)
 - ◆ Advanced glenohumeral arthritis
 - ◆ Radiographically diminished acromio-humeral distance
- **Non-surgical management**, with regard to the treatment of shoulder pain, is defined as any provider-directed non-surgical treatment that has been demonstrated in the scientific literature to be efficacious and/or is considered reasonable care in the treatment of shoulder pain. The types of treatment involved can include, but are not limited to: relative rest/activity modification, supervised physiotherapy modalities and therapeutic exercises, oral prescription and non-prescription medications, assistive devices (e.g., sling, splint, brace) and/or injections (i.e., steroid).

CMM-318.2: General Guidelines

- The determination of medical necessity for the performance of shoulder surgery is always made on a case-by-case basis.
- Refer to **MS-12: Osteoarthritis** and **MS-19: Shoulder** for advanced imaging indications prior to shoulder arthroplasty/replacement surgery.

CMM-318.3: Indications and Non-Indications

Hemi-arthroplasty (Replacement)

- Hemi-arthroplasty (replacement) is considered **medically necessary** when **ALL** of the following criteria are met:
 - ◆ Function-limiting pain (e.g., loss of shoulder function which interferes with the ability to carry out age appropriate activities of daily living and/or demands of employment) for at least three (3) months
 - ◆ Failure of at least three (3) months of provider-directed non-surgical management
 - ◆ Radiographic imaging and/or an advanced diagnostic procedure (i.e., MRI, CT scan, etc.) is conclusive for the presence of **ANY** of the following and correlates with the individual's reported symptoms and physical exam findings:
 - Advanced destructive degenerative joint disease (i.e., rheumatoid arthritis or osteoarthritis) resulting in marked narrowing of the joint space
 - Arthritic conditions in which the glenoid bone stock is inadequate to support a glenoid prosthesis
 - Rotator cuff tear arthropathy (i.e., severe rotator cuff tearing and end-stage arthritic disease)
 - Avascular necrosis without glenoid involvement
- Hemi-arthroplasty (replacement) is considered **medically necessary** when radiographic imaging and/or an advanced diagnostic study (i.e., MRI, CT scan) is conclusive for the presence of a proximal humerus fracture that is not amenable to internal fixation. Criteria for duration and severity of symptoms, physical examination findings, and provider-directed non-surgical management are not required to be met.
- Hemi-arthroplasty (replacement) is considered **not medically necessary** for any other indication or condition, including the following:
 - ◆ Active local or systemic infection
 - ◆ Paralytic disorder of the shoulder (e.g., flail shoulder due to irreversible brachial plexus palsy, spinal cord injury, or neuromuscular disease)
 - ◆ One or more uncontrolled or unstable medical conditions that would significantly increase the risk of morbidity (e.g., cardiac, pulmonary, liver, genitourinary, or metabolic disease; hypertension; abnormal serum electrolyte levels)
 - ◆ Charcot arthropathy

CMM-318.4: Procedure (CPT®) Codes

This guideline relates to the CPT® code set below. Codes are displayed for informational purposes only. Any given code's inclusion on this list does not necessarily indicate prior authorization is required.

CPT®	Code Description/Definition
23330	Removal of foreign body, shoulder; subcutaneous
23333	Removal of foreign body, shoulder; deep (subfascial or intramuscular)
23334	Removal of prosthesis, includes debridement and synovectomy when performed; humeral or glenoid component
23335	Removal of prosthesis, includes debridement and synovectomy when performed; humeral and glenoid components (e.g. total shoulder)
23400	Scapulopexy (e.g. Sprengels deformity or for paralysis)
23470	Arthroplasty, glenohumeral joint; hemiarthroplasty
23472	Arthroplasty, glenohumeral joint; total shoulder (glenoid and proximal humeral replacement [e.g. total shoulder])
23473	Revision of total shoulder arthroplasty, including allograft when performed; humeral or glenoid component
23474	Revision of total shoulder arthroplasty, including allograft when performed; humeral and glenoid component
23800	Arthrodesis, glenohumeral joint
23802	Arthrodesis, glenohumeral joint; with autogenous graft (includes obtaining graft)

This list may not be all inclusive and is not intended to be used for coding/billing purposes. The final determination of reimbursement for services is the decision of the health plan and is based on the individual's policy or benefit entitlement structure as well as claims processing rules.

CMM-318.5: References

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