SHOULDER REPLACEMENT SURGERY (ARTHROPLASTY)

Policy Number: CS109.F

Effective Date: April 1, 2017

INSTRUCTIONS FOR USE

This Medical Policy provides assistance in interpreting UnitedHealthcare benefit plans. When deciding coverage, the federal, state or contractual requirements for benefit plan coverage must be referenced. The terms of the federal, state or contractual requirements for benefit plan coverage may differ greatly from the standard benefit plan upon which this Medical Policy is based. In the event of a conflict, the federal, state or contractual requirements for benefit plan coverage supersedes this Medical Policy. All reviewers must first identify member eligibility, any federal or state regulatory requirements, and the contractual requirements for benefit plan coverage prior to use of this Medical Policy. Other Policies and Coverage Determination Guidelines may apply. UnitedHealthcare reserves the right, in its sole discretion, to modify its Policies and Guidelines as necessary. This Medical Policy is provided for informational purposes. It does not constitute medical advice.

UnitedHealthcare may also use tools developed by third parties, such as the MCG™ Care Guidelines, to assist us in administering health benefits. The MCG™ Care Guidelines are intended to be used in connection with the independent professional medical judgment of a qualified health care provider and do not constitute the practice of medicine or medical advice.

BENEFIT CONSIDERATIONS

Before using this policy, please check the federal, state or contractual requirements for benefit coverage.

COVERAGE RATIONALE

For information regarding medical necessity review, when applicable, see MCG™ Care Guidelines, 21st edition, 2017, Shoulder Arthroplasty, S-634 (ISC).

For information regarding medical necessity review, when applicable, see MCG™ Care Guidelines, 21st edition, 2017, Shoulder Hemiarthroplasty, S-633 (ISC).

APPLICABLE CODES

The following list(s) of procedure and/or diagnosis codes is provided for reference purposes only and may not be all inclusive. Listing of a code in this policy does not imply that the service described by the code is a covered or non-covered health service. Benefit coverage for health services is determined by federal, state or contractual requirements and applicable laws that may require coverage for a specific service. The inclusion of a code does not imply any right to reimbursement or guarantee claim payment. Other Policies and Coverage Determination Guidelines may apply.

<table>
<thead>
<tr>
<th>CPT Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>23470</td>
<td>Arthroplasty, glenohumeral joint; hemiarthroplasty</td>
</tr>
<tr>
<td>23472</td>
<td>Arthroplasty, glenohumeral joint; total shoulder (glenoid and proximal humeral replacement (e.g., total shoulder)</td>
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Shoulder Replacement Surgery (Arthroplasty)  
UnitedHealthcare Community Plan Medical Policy  

<table>
<thead>
<tr>
<th>CPT Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>23473</td>
<td>Revision of total shoulder arthroplasty, including allograft when performed; humeral or glenoid component</td>
</tr>
<tr>
<td>23474</td>
<td>Revision of total shoulder arthroplasty, including allograft when performed; humeral and glenoid component</td>
</tr>
<tr>
<td>23616</td>
<td>Open treatment of proximal humeral (surgical or anatomical neck) fracture, includes internal fixation, when performed, includes repair of tuberosity(s), when performed; with proximal humeral prosthetic replacement</td>
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</tbody>
</table>

PROFESSIONAL SOCIETIES

**American Academy of Orthopaedic Surgeons (AAOS)**


- Total shoulder arthroplasty and hemiarthroplasty are options when treating patients with glenohumeral joint osteoarthritis. **Strength of Recommendation: Weak**
- We suggest total shoulder arthroplasty over hemiarthroplasty when treating patients with glenohumeral joint osteoarthritis. **Strength of Recommendation: Moderate**
- An option for reducing immediate postoperative complication rates is for patients to avoid shoulder arthroplasty by surgeons who perform less than two shoulder arthroplasties per year. **Strength of Recommendation: Weak**
- In the absence of reliable evidence, it is the opinion of this work group that physicians use peri-operative mechanical and/or chemical VTE (venous thromboembolism) prophylaxis for shoulder arthroplasty patients. **Strength of Recommendation: Consensus**
- The use of either keeled or pegged all polyethylene cemented glenoid components are options when performing total shoulder arthroplasty. **Strength of Recommendation: Weak**
- In the absence of reliable evidence, it is the opinion of this work group that total shoulder arthroplasty not be performed in patients with glenohumeral osteoarthritis who have an irreparable rotator cuff tear. **Strength of Recommendation: Consensus**
- We are unable to recommend for or against biceps tenotomy or tenodesis when performing shoulder arthroplasty in patients who have glenohumeral joint osteoarthritis. **Strength of Recommendation: Inconclusive**
- We are unable to recommend for or against a subscapularis transtendonous approach or a lesser tuberosity osteotomy when performing shoulder arthroplasty in patients who have glenohumeral joint osteoarthritis. **Strength of Recommendation: Inconclusive**
- We are unable to recommend for or against a specific type of humeral prosthetic design or method of fixation when performing shoulder arthroplasty in patients with glenohumeral joint osteoarthritis. **Strength of Recommendation: Inconclusive**
- We are unable to recommend for or against physical therapy following shoulder arthroplasty. **Strength of Recommendation: Inconclusive**

**U.S. FOOD AND DRUG ADMINISTRATION (FDA)**

Shoulder replacement surgery is a procedure and therefore is not regulated by the FDA. However, devices and instruments used during the surgery require FDA approval. See the following website for additional information (product codes KWS, HSD, KWT): [http://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfPMN/pmn.cfm](http://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfPMN/pmn.cfm). (Accessed December 20, 2016)

FDA-approved total or partial shoulder replacement surgery devices are generally approved for the same indications, including any or all of the following:

- Non-inflammatory degenerative joint disease such as osteoarthritis or avascular necrosis (osteonecrosis) of the humeral head
- Rheumatoid arthritis
- Post-traumatic arthritis
- Complex fracture(s) of the proximal (upper) humerus
- Revision of failed shoulder replacement surgery
- Correction of functional deformity

FDA-approved reverse shoulder replacement surgery devices are generally approved for gross rotator cuff deficiency. The patient's joint must be anatomically and structurally suited to receive the selected implant(s), and a functional deltoid muscle is necessary to use the device.
CENTERS FOR MEDICARE AND MEDICAID SERVICES (CMS)

Medicare does not have a National Coverage Determination (NCD) for shoulder replacement surgery (arthroplasty). Local Coverage Determinations (LCDs) do not exist at this time.


POLICY HISTORY/REVISION INFORMATION

<table>
<thead>
<tr>
<th>Date</th>
<th>Action/Description</th>
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<tbody>
<tr>
<td>04/01/2017</td>
<td>• Reformatted and reorganized policy; transferred content to new template</td>
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<tr>
<td></td>
<td>• Revised coverage rationale; replaced references to &quot;MCG™ Care Guidelines, 20th edition, 2016&quot; with &quot;MCG™ Care Guidelines, 21st edition, 2017&quot;</td>
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<tr>
<td></td>
<td>• Updated list of applicable CPT codes; added 23616</td>
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<tr>
<td></td>
<td>• Archived previous policy version CS109.E</td>
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