SHOULDER REPLACEMENT SURGERY (ARTHROPLASTY)

Policy Number: CS109.1 Effective Date: April 1, 2019

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COVERAGE RATIONALE

Shoulder replacement surgery is proven and medically necessary in certain circumstances. For medical necessity clinical coverage criteria, see the following MCG™ Care Guidelines, 23rd edition, 2019:
- Shoulder Arthroplasty, S-634 (ISC)
- Shoulder Hemiarthroplasty, S-633 (ISC)

Click here to view the MCG™ Care Guidelines.

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>
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<tr>
<td>23472</td>
<td>Arthroplasty, glenohumeral joint; total shoulder (glenoid and proximal humeral replacement (e.g., total shoulder)</td>
</tr>
<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>
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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 who have 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, not regulated by the FDA. However, devices and instruments used during the surgery may 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. (Accessed December 14, 2018)

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. (Accessed January 4, 2019)

POLICY HISTORY/REVISION INFORMATION

<table>
<thead>
<tr>
<th>Date</th>
<th>Coverage Rationale</th>
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<tbody>
<tr>
<td>12/04/2019</td>
<td>• Added reference link to MCG™ Care Guidelines</td>
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| 04/01/2019 | • Reorganized policy template:  
  o Simplified and relocated Instructions for Use  
  o Removed Benefit Considerations section  
  o Revised coverage rationale:  
    o Replaced reference to "MCG™ Care Guidelines, 22nd edition, 2018" with  
      "MCG™ Care Guidelines, 23rd edition, 2019"; refer to 23rd edition for complete details on applicable updates to the MCG™ Care Guidelines  
    o Archived previous policy version CS109.H |
INSTRUCTIONS FOR USE

This Medical Policy provides assistance in interpreting UnitedHealthcare standard benefit plans. When deciding coverage, the federal, state or contractual requirements for benefit plan coverage must be referenced as the terms of the federal, state or contractual requirements for benefit plan coverage may differ from the standard benefit plan. In the event of a conflict, the federal, state or contractual requirements for benefit plan coverage govern. Before using this policy, please check the federal, state or contractual requirements for benefit plan coverage. UnitedHealthcare reserves the right 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 UnitedHealthcare Medical Policies 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.

ARCHIVED POLICY VERSIONS

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<th>Effective Date</th>
<th>Policy Number</th>
<th>Policy Title</th>
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<tr>
<td>06/01/2018 – 09/30/2018</td>
<td>CS109.G</td>
<td>Shoulder Replacement Surgery (Arthroplasty)</td>
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<td>04/01/2017 – 05/31/2018</td>
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<td>CS109.D</td>
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