

# Unicondylar Spacer Devices for Treatment of Pain or Disability (for Louisiana Only)

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## Application

This Medical Policy only applies to the state of Louisiana.

## Coverage Rationale

Unicondylar spacer devices are unproven and not medically necessary for treating knee joint pain or disability from any cause due to insufficient evidence of efficacy.

## Definitions

**Unicompartmental:** Related to either the inside (medial) or outside (lateral) half of the knee joint. (AAOS, 2013)

**Unicondylar Interpositional Spacer:** A specialized hemispheric metallic device that can be surgically implanted into the joint space of the knee; this device has been used as a treatment for arthritis that affects only part of the knee (unicompartmental arthritis). (AAOS, 2013)

## 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 Guidelines may apply.

| CPT Code | Description                       |
|----------|-----------------------------------|
| 27599    | Unlisted procedure, femur or knee |

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## Description of Services

The interpositional unicondylar spacer device was developed as an alternative treatment for individuals with severe knee pain who have exhausted traditional treatment plans such as anti-inflammatory medications and arthroscopy but are not yet ready for total knee replacement surgery.

Interpositional unicondylar spacers are metallic implants which are inserted into the joint space between the affected tibial plateau and femoral condyle. Instead of being fixed, the spacers are held in place by the geometry of the curved implant, ligament tension, and surrounding soft tissue structures.

## Clinical Evidence

Currently, there are few studies published in the medical literature that allow for adequate evaluation of the use of unicondylar interpositional spacers in the clinical setting.

Baillie et al. (2008) conducted a prospective study of 18 patients treated with the Unispacer to determine the early clinical results of this device. Mean follow-up was 19 months (12 to 26). Mean patient age was 49 years (40 to 57). Eight patients (44%) required revision within two years. Two patients required a revision to a larger spacer, and in 6, conversions to either a unicompartmental or total knee replacement was needed. The mean modified visual analogue score for these patients at follow-up was 3.0 (0 to 11.5). The mean pain level was 30% that of the mean pre-operative level of 10. The authors found the early clinical results disappointing and concluded that the use of the Unispacer in isolated medial compartment osteoarthritis is associated with a high rate of revision surgery and provides unpredictable relief of pain.

A study evaluated 24 patients (26 knees) with unicompartmental knee osteoarthritis who were managed with McKeever tibial hemiarthroplasty. A total of 13 knees were successfully revised at an average of 8 years after the original procedure. Ten knees retained devices with an average follow-up of 16.8 years. The investigators concluded that the McKeever device is a reasonable surgical option for patients who are not candidates for osteotomy or total knee replacement. (Springer, 2006)

Sisto and Mitchell (2005) reported on the experience of a single surgeon who performed 37 Unispacer arthroplasties for treatment of medial compartment arthritis in 34 patients. After a mean duration follow-up of 26 months, there were no excellent, 10 good, 15 fair, and 12 poor results. Six of the poor results occurred because of Unispacer dislocation. The investigators do not recommend Unispacer arthroplasty for treatment of arthritis of the knee.

Hallock and Fell (2003) reported 1- and 2-year data on 71 Unispacer knee devices. The mean Knee Society knee score improved 169% in the 1-year group and 193% in the 2-year group. A total of 5 implants were revised to total knee arthroplasty and 10 implants were revised to another Unispacer knee device.

### Professional Societies

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

In an updated 2013 guideline, the AAOS recommended against using a free-floating interpositional device for patients with symptomatic unicompartmental osteoarthritis of the knee. The guideline notes that the supporting evidence is lacking and requires the work group to make a recommendation based on expert opinion by considering the known potential harm and benefits associated with the treatment.

#### *California Technology Assessment Forum (CTAF)*

The CTAF (Tice, 2003) reported that no published studies are available to assess the safety and efficacy of the UniSpacer device. Surgical placement of knee joint spacer devices requires evaluations in controlled trials to determine safety and efficacy before widespread adoption can be recommended. Surgical placement of a knee joint spacer for the treatment of osteoarthritis did not meet the CTAF technology assessment criteria.

## Washington State Department of Labor and Industries

The Washington State Department of Labor and Industries (2005) has stated that it does not cover the UniSpacer device because of an absence of clinical data and published literature regarding its safety and efficacy.

## U.S. Food and Drug Administration (FDA)

This section is to be used for informational purposes only. FDA approval alone is not a basis for coverage.

The FDA currently lists five unicondylar spacer devices as having received 510(k) clearance for marketing in the United States.

Unicondylar spacer devices are regulated by the FDA as Class II devices under product code HSH. Additional information is available at: <http://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfPMN/pmn.cfm>. (Accessed June 17, 2020)

## References

American Academy of Orthopaedic Surgeons (AAOS). Treatment of Osteoarthritis of the Knee (Non-Arthroplasty). May 18, 2013.

Bailie AG, Lewis PL, Brumby SA, et al. The Unispacer knee implant: early clinical results. J Bone Joint Surg Br. 2008 Apr;90(4):446-50.

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Springer BD, Scott RD, Sah AP, et al. McKeever hemiarthroplasty of the knee in patients less than sixty years old. J Bone Joint Surg Am. 2006 Feb;88(2):366-71.

Tice JA. Knee joint spacer (UniSpacer) system for osteoarthritis of the knee. Technology Assessment. San Francisco, CA: California Technology Assessment Forum. Published February 12, 2003.

Washington State Department of Labor and Industries. UniSpacer Coverage Decision. Coverage Decisions for Medical Technologies and Procedures. Olympia, WA: Washington State Department of Labor and Industries; 2005.

## Policy History/Revision Information

| Date       | Summary of Changes   |
|------------|--|
| 04/01/2021 | <b>Template Update</b> <ul style="list-style-type: none"><li>Removed <i>Related Policies</i> and <i>CMS</i> sections</li><li>Updated <i>Instructions for Use</i>; replaced reference to “MCG™ Care Guidelines” with “InterQual® criteria”</li></ul>  |
| 10/01/2020 | <b>Template Update</b> <ul style="list-style-type: none"><li>Reformatted policy; transferred content to new template</li></ul> <b>Supporting Information</b> <ul style="list-style-type: none"><li>Updated <i>Clinical Evidence</i> and <i>CMS</i> sections to reflect the most current information</li><li>Archived previous policy version CS128LA.G</li></ul> |

## 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 InterQual® criteria, 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.