

Clinical Policy: Disc Decompression Procedures

Reference Number: LA.CP.MP.114 Date of Last Revision: 06/2307/24 Coding Implications
Revision Log

See <u>Important Reminder</u> at the end of this policy for important regulatory and legal information.

Description

Microdiscectomy or open discectomy (MD/OD) are the standard procedures for symptomatic lumbar disc herniation, and they involve removal of the portion of the intervertebral disc compressing the nerve root or spinal cord (or both) with or without the aid of a headlight loupe or microscope magnification. Potential advantages of newer minimally invasive discectomy (MID) procedures over standard MD/OD include less blood loss, less postoperative pain, shorter hospitalization and earlier return to work. ¹

Policy/Criteria

- **I.** It is the policy of Louisiana Healthcare Connections that open discectomy and microdiscectomy are **medically necessary** when meeting all of the following:
 - A. Age \geq 18 years;
 - B. Diagnosis of herniated lumbar disc;
 - C. Nerve root compression confirmed by imaging and one of the following:
 - 1. Unilateral radiculopathy Radiculopathy with motor deficit and one of the following:
 - a. Severe weakness in a nerve root distribution, as evidenced by: a score of ≤ 3 on the Medical Research Council 0 to 5 muscle strength scale, or the inability to ambulate:
 - b. Mild to moderate weakness in a nerve root distribution, as evidenced by a score of 3 or 4 on the Medical Research Council 0 to 5 muscle strength scale and one of the following:
 - i. Worsening weakness or motor deficit;
 - ii. Patient has failed to respond to conservative therapy, within the last year, including all of the following:
 - a) $\geq \frac{\sin x}{\sin x}$ weeks physical therapy or prescribed home exercise program;
 - <u>b</u>) ≥ four weeks activity modification;
 - c) One of the following:
 - b)1) Nonsteroidal anti-inflammatory drug (NSAID) or acetaminophen ≥ three weeks unless contraindicated or not tolerated;
 - c) ≥ six weeks activity modification;
 - 2) Unilateral radiculopathy Epidural steroid injection;
 - 2. <u>Radiculopathy</u> with sensory deficit as evidenced by pain, parasthesias or numbness in a nerve root distribution, and patient has failed to respond to conservative therapy including all the following:
 - a. $\geq \frac{1}{2} \frac{1}{2}$
 - b. \geq four weeks activity modification;
 - c. One of the following:
 - b.i. NSAID or acetaminophen ≥ three weeks unless contraindicated or not tolerated;
 - c. \geq six weeks activity modification.

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ii. Epidural steroid injection.

- **II.** It is the policy of Louisiana Healthcare Connections that the following minimally invasive procedures for spinal decompression have not been proven superior to other existing technologies:
 - A. Percutaneous Lumbar Discectomy (manual or automated [APLD] and/or MILD);
 - B. Percutaneous Laser Discectomy (PLD);
 - C. Laser-assisted Disc Decompression (LADD);
 - D. Percutaneous laser disc decompression (PLDD);
 - E. Percutaneous nuclectomy;
 - F. Percutaneous endoscopic discectomy;
 - G. Endoscopic laser percutaneous discectomy or LASE;
 - H. Endoscopic Spinal Surgery System;
 - I. Interspinous/interlaminar process stabilization/spacer device.

Background

A variety of discectomy techniques are available¹:

- The traditional open discectomy (OD) is performed with a standard surgical incision, often with the aid of eyepiece (loupe) magnification. It frequently involves a laminectomy (removal of the vertebral lamina to relieve pressure on nerve roots).
- Microdiscectomy (MD) is a refinement of open discectomy and involves a smaller incision in the back, with visualization through an operating microscope. This may include a laminotomy or hemilaminectomy in order to adequately visualize the disc, followed by removal of the disc fragment compressing the affected nerve or nerves.
- Minimally invasive discectomy (MID) techniques include percutaneous manual nucleotomy, automated percutaneous lumbar discectomy, laser discectomy, endoscopic discectomy, microendoscopic discectomy, coblation nucleoplasty, and the disc DeKompressor. Tubular or trochar discectomy is a less invasive technique in which a tubular retractor is inserted over a guidewire, gaining access to the disc by muscle splitting rather than muscle incision and detachment.

MID procedures involve smaller incisions and surgery with the aid of indirect visualization. Some techniques employ lasers to vaporize parts of the disc or automated techniques for removing portions of the disc. There is the potential advantage of quicker recovery from surgery compared to standard OD or MD.¹

A systematic review of MID versus MD/OD for symptomatic lumbar disc herniation found MID may be inferior in terms of relief of leg pain, low back pain and re-hospitalization. Additionally, MID may be associated with lower risk of infection and shorter hospital stay, but more research is needed due to inconsistent evidence.²

Evaniew and colleagues came to a similar conclusion in their 2014 systematic review of MID versus open surgery for cervical and lumbar discectomy.³ They state that moderate-quality evidence suggests no advantage of MID in short- and long-term function, and low-quality evidence shows no advantage in short-and long-term pain.³ At this time the risks due to the more

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technically complicated MID and potential for inadequate decompression render more conventional spinal decompression procedures the preferred choice.

Chou echoes the findings of the systematic reviews, stating that definitive evidence of advantages of MID techniques is needed before adopting them over OD or MD.¹

The National Institute for Health and Clinical Excellence (NICE)

According to NICE, evidence regarding automated percutaneous mechanical lumbar discectomy does not show any major safety concerns at this time. Evidence of efficacy is limited and "based on uncontrolled case series of heterogeneous groups of patients, but evidence from small randomized controlled trials shows conflicting results." Special arrangements should be used for consent and audit or research due to the incertitude regarding the efficacy of this procedure.

Coding Implications

This clinical policy references Current Procedural Terminology (CPT®). CPT® is a registered trademark of the American Medical Association. All CPT codes and descriptions are copyrighted 20222023, American Medical Association. All rights reserved. CPT codes and CPT descriptions are from the current manuals and those included herein are not intended to be all-inclusive and are included for informational purposes only. Codes referenced in this clinical policy are for informational purposes only and may not support medical necessity. -Inclusion or exclusion of any codes does not guarantee coverage. Providers should reference the most up-to-date sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

NOTE: Coverage is subject to each requested code's inclusion on the corresponding LDH fee schedule. Non-covered codes are denoted (*) and are reviewed for Medical Necessity for members under 21 years of age on a per case basis.

CPT Codes That Support Coverage Criteria

| CPT ® | Description | | | |
|--------------|---|--|--|--|
| Codes | | | | |
| 622871 | Decompression procedure, percutaneous, of nucleus pulposus of intervertebral disc, any method utilizing needle based technique to remove disc material under fluoroscopic imaging or other form of indirect visualization, with discography and/or epidural injection(s) at the treated level(s), when performed, single or multiple levels, lumbar | | | |
| 63075 | Discectomy, anterior, with decompression of spinal cord and/or nerve root(s), | | | |
| 03073 | including osteophytectomy; cervical, single interspace | | | |
| 63076 | Discectomy, anterior, with decompression of spinal cord and/or nerve root(s), including osteophytectomy; cervical, each additional interspace (List separately in addition to code for primary procedure) | | | |
| 63077 | Discectomy, anterior, with decompression of spinal cord and/or nerve root(s), including osteophytectomy; thoracic, single interspace | | | |

¹ This code encompasses various disc procedures, not all of which are considered medically necessary by Louisiana Healthcare Connections. To determine medical necessity, the actual procedure to be performed must be specified.



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| CPT ® | Description |
|--------------|---|
| Codes | |
| 63078 | Discectomy, anterior, with decompression of spinal cord and/or nerve root(s), |
| | including osteophytectomy; thoracic, each additional interspace (List |
| | separately in addition to code for primary procedure) |

CPT Codes That Do Not Support Coverage Criteria

| CPT ® | Description | | |
|----------------|--|--|--|
| Codes | | | |
| 0275T* | Percutaneous laminotomy/laminectomy (interlaminar approach) for decompression of neural elements, (with or without ligamentous resection, discectomy, facetectomy and/or foraminotomy), any method, under indirect image guidance (eg, fluoroscopic, CT), single or multiple levels, unilateral or bilateral; lumbar | | |
| 22867 * | Insertion of interlaminar/interspinous process stabilization/distraction device, without fusion, including image guidance when performed, with open decompression, lumbar; single level | | |
| 22868* | Insertion of interlaminar/interspinous process stabilization/distraction device, without fusion, including image guidance when performed, with open decompression, lumbar; second level (List separately in addition to code for primary procedure) | | |
| 22869* | Insertion of interlaminar/interspinous process stabilization/distraction device, without open decompression or fusion, including image guidance when performed, lumbar; single level | | |
| 22870* | Insertion of interlaminar/interspinous process stabilization/distraction device, without open decompression or fusion, including image guidance when performed, lumbar; second level (List separately in addition to code for primary procedure) | | |

HCPCS Codes That Support Coverage Criteria

| HCPCS | Description | |
|--------|--|--|
| Codes | | |
| S2350* | Diskectomy, anterior, with decompression of spinal cord and/or nerve root(s), | |
| | including osteophytectomy; lumbar, single interspace | |
| S2351* | Diskectomy, anterior, with decompression of spinal cord and/or nerve root(s), | |
| | including osteophytectomy; lumbar, each additional interspace (list separately | |
| | in addition to code for primary procedure) | |

HCPCS Codes That Do Not Support Coverage Criteria

| HCPCS Codes | Description |
|----------------|---|
| C1821* | Interspinous process distraction device (implantable) |



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| HCPCS Codes | Description |
|----------------|---|
| S2348* | Decompression procedure, percutaneous, of nucleus pulposus of intervertebral disc, using radiofrequency energy, single or multiple levels, lumbar |

| Reviews, Revisions, and Approvals | | Approval Date |
|---|----------------|------------------|
| Converted corporate to local policy. | 08/15/202 0 | |
| Changed policy statement in II. regarding minimally invasive procedures from "investigational" to stating that the listed procedures are not superior to other technologies. Codes and references reviewed and updated. Replaced all instances of "member" with "member/enrollee." | 1/2022 | 1/2022 |
| Annual review. Added code S2348 to table of HCPCS codes that do not support coverage criteria. References reviewed and updated. Changed "date," in the revision log header to, "revision date." | 7/22 | 9/26/22 |
| Annual review. Minor rewording in Description, Criteria, and Background sections with no impact on criteria. ICD-10 codes removed. References reviewed and updated. Added CPT codes 63075, 63076, 63077, and 63078. Added footnote to code 62287 | 06/23 | 8/24/23 |
| Annual review. Removed "unilateral" for radiculopathy in Criteria I.C.1. Updated muscle strength score in Criteria I.C.1.a. from < 3 to ≤ 3. Updated muscle strength score in Criteria I.C.1.b. from 3 or 4 to 4. Added "within the last year" for conservative therapy in Criteria I.C.1.b.ii. Updated physical therapy from ≥ six weeks to ≥ four weeks in Criteria I.C.1.b.ii.a). Updated activity modification from ≥ six weeks to ≥ four weeks in Criteria I.C.1.b.ii.b). Updated Criteria I.C.1.b.ii.c) to specify one of the following: 1) NSAID or acetaminophen ≥ 3 weeks unless contraindicated or not tolerated 2) Epidural steroid injection. Removed "unilateral" for radiculopathy in Criteria I.C.2. Updated physical therapy from ≥ six weeks to ≥ four weeks in Criteria I.C.2.a. Updated activity modification from ≥ six weeks to ≥ four weeks in Criteria I.C.2.b. Updated Criteria I.C.2.c. to specify one of the following: i. NSAID or acetaminophen ≥ 3 weeks unless contraindicated or not tolerated ii. Epidural steroid injection. References reviewed and updated. Reviewed by external specialist. Removed CPT codes 63075, 63076, 63077, and 63078. | 07/24 | |

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Important Reminder

This clinical policy has been developed by appropriately experienced and licensed health care professionals based on a review and consideration of currently available generally accepted

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standards of medical practice; peer-reviewed medical literature; government agency/program approval status; evidence-based guidelines and positions of leading national health professional organizations; views of physicians practicing in relevant clinical areas affected by this clinical policy; and other available clinical information. LHCC makes no representations and accepts no liability with respect to the content of any external information used or relied upon in developing this clinical policy. This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved.

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