MEDICAL POLICY

MEDICAL POLICY DETAILS

<table>
<thead>
<tr>
<th>Medical Policy Title</th>
<th>LUMBAR MICRODISCECTOMY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Policy Number</td>
<td>7.01.98</td>
</tr>
<tr>
<td>Category</td>
<td>Technology Assessment</td>
</tr>
<tr>
<td>Effective Date</td>
<td>06/21/18</td>
</tr>
<tr>
<td>Revised Date</td>
<td>12/20/18, 07/18/19</td>
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Product Disclaimer

- If a product excludes coverage for a service, it is not covered, and medical policy criteria do not apply.
- If a commercial product (including an Essential Plan product) or a Medicaid product covers a specific service, medical policy criteria apply to the benefit.
- If a Medicare product covers a specific service, and there is no national or local Medicare coverage decision for the service, medical policy criteria apply to the benefit.

POLICY STATEMENT

I. Based on our criteria and assessment of the peer-reviewed literature, an initial, primary lumbar microdiscectomy (laminotomy, laminectomy or hemilaminectomy) has been medically proven to be effective and is considered medically appropriate for radiculopathy/neurogenic claudication secondary to a herniated disc, synovial cyst or an arachnoid cyst, or central/lateral/foraminal stenosis when ALL the following have been met:
   A. Recent (within six months) plain x-rays of the lumbar spine have been performed;
   B. No previous surgeries on the disc(s) involved;
   C. All other sources of pain have been excluded;
   D. Absence of unmanaged significant behavioral health disorders (e.g., major depressive disorder, chronic pain syndrome, secondary gain, drug and alcohol use disorders)
   E. Subjective symptoms including at least two of the following:
      1. Significant level of pain on a daily basis defined as either of the following:
         a. Visual Analog Scale (VAS)/Numeric Rating Scale (NRS) as greater than or equal to seven;
         b. Severe, disabling, crippling, or incapacitating pain;
      2. Persistent radiating pain into the buttock(s) and/or lower extremity(ies) on a daily basis that has a documented negative impact on activities of daily living despite optimal conservative therapy; and
      3. Pain, cramping, weakness, or tingling in the lower back, buttock(s), and legs brought about by walking or positions that cause thecal sac or nerve root compression (e.g., standing, extension);
   F. Objective physical findings including any of the following:
      1. Nerve root tension sign including any of the following:
         a. positive straight leg raise,
         b. crossed straight leg raise, or
         c. femoral stretch test.
      2. Neurologic deficit including any of the following:
         a. Dermatomal sensory deficit;
         b. Functionally limiting motor weakness (e.g., foot drop, quadriceps weakness); or
         c. Reflex changes.
   G. Recent (within six months) MRI/CT identifies nerve root impingement and/or thecal sac impingement that correlates with patient symptoms and physical findings and is caused by ONE or MORE of the following:
      1. Herniated disc(s);
      2. Synovial cyst/arachnoid cyst;
      3. Central/lateral/foraminal stenosis.
   H. Less than clinically meaningful improvement with at least TWO of the following unless contraindicated:
      1. Prescription strength analgesics, steroids, and/or NSAIDS for six weeks;
      2. Provider-directed exercise program prescribed by a physical therapist, chiropractic provider, osteopathic or allopathic physician for 6 weeks; or

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3. Epidural steroid injections/selective nerve root block(s).

II. Based on our criteria and assessment of the peer-reviewed literature, a repeat lumbar microdiscectomy (laminotomy or laminectomy) at the same level has medically been proven to be effective and is medically appropriate when ALL the following have been met:
   A. Recent MRI without or without and with contrast/CT myelogram (within six months) confirms evidence of neural structure compression (e.g., either retained disc material or a recurrent disc herniation);
   B. Greater than 12 weeks since initial lumbar disc decompression surgery;
   C. Initial relief of symptoms following previous disc decompression procedure at the same level unless recent (within six months) post-operative imaging demonstrates persistent significant neurologic compression at the surgical level;
   D. Performed for ANY of the following:
      1. Radiculopathy/neurogenic claudication secondary to herniated disc;
      2. Synovial cyst/arachnoid cyst; or
      3. Central/lateral/foraminal stenosis.
   E. All other sources of pain have been excluded;
   F. Absence of unmanaged significant behavioral health disorders (e.g., major depressive disorder, chronic pain syndrome, secondary gain, drug and alcohol use disorders);
   G. Subjective symptoms including at least TWO of the following:
      1. Significant level of pain on a daily basis defined as either of the following:
         a. Visual Analog Scale (VAS)/Numeric Rating Scale (NRS) as greater than or equal to 7;
         b. Severe, disabling, crippling, or incapacitating pain;
      2. Persistent radiating pain into the buttock(s) and/or lower extremity(ies) on a daily basis that has a documented negative impact on activities of daily living despite optimal conservative therapy; or
      3. Pain, cramping, weakness, or tingling in the lower back, buttock(s), and legs brought about by walking or positions that cause thecal sac or nerve root compression (e.g., standing, extension).
   H. Objective physical examination findings including EITHER of the following:
      1. Nerve root tension sign including ANY of the following:
         a. positive straight leg raise,
         b. crossed straight leg raise, or
         c. femoral stretch test.
      2. Neurologic deficit including ANY of the following:
         a. Dermatomal sensory deficit;
         b. Functionally limiting motor weakness (e.g., foot drop, quadriceps weakness); or
         c. Reflex changes
   I. Less than clinically meaningful improvement with at least TWO of the following unless contraindicated:
      1. Prescription strength analgesics, steroids, and/or NSAIDS for six weeks;
      2. Provider-directed exercise program prescribed by a physical therapist, chiropractic provider, osteopathic or allopathic physician for six weeks; or
      3. Epidural steroid injections/selective nerve root block(s).

III. Based on our criteria and assessment of peer-reviewed literature, the performance of microdiscectomy (laminotomy, laminectomy, and hemilaminectomy) with laser technique is considered not medically necessary.

IV. Based on our criteria and assessment of peer-reviewed literature, initial and repeat lumbar microdiscectomy (laminotomy, laminectomy and hemilaminectomy) is considered not medically necessary for ANY of the following sole indications:
   A. Subjective symptoms and objective physical examination findings that are not concordant with imaging;
   B. Predominant lower back pain associated with disc degeneration with or without annular tears in the absence of a disc herniation;
   C. Patients who are asymptomatic with a normal physical examination regardless of the size of the disc herniation;
   D. Disc bulge with no neural impingement or cord compression on imaging;
   E. Concordant discography;
   F. Isolated axial lower back pain in the presence of disc herniation.

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POLICY GUIDELINES

I. Acceptable imaging modalities are CT scan, MRI and myelogram. Imaging must be performed and read by an independent radiologist. If discrepancies should arise in the interpretation of the imaging, interpretations by the radiologist will supersede. Discography results will not be used as a determining factor of medical necessity for any requested procedures. Use is not endorsed.

II. Clinically meaningful improvement is defined as global assessment showing at least 50% improvement.

DESCRIPTION

The procedure to relieve the pressure on a spinal nerve resulting from a herniated lumbar disc is referred to as a microdiscectomy. Microscopic lumbar discectomy surgery involves the use of a microscope to improve surgical lighting and vision, making the herniated lumbar disc surgery more precise and accurate. Specially designed surgical instruments are then used during microscopic discectomy to remove bone spurs and the lamina on the side of the approach. This is referred to as a laminectomy. The disc is then exposed by gently retracting the nerves. The fragments of herniated disc are then dissected free and carefully removed. Microdiscectomies can be performed using 3 main techniques:

I. Mini-open: This is similar to an open discectomy, but your surgeon uses advanced technology to view your spine through smaller incisions.

II. Tubular: Your surgeon inserts a tube through a small incision. This tube is gently pushed through your back muscles until it reaches your spine, and then a series of expanding tubes is inserted, one around the other. These tubes gradually open up (or dilate) the area where the surgery will be done. Your surgeon then uses specially-designed instruments to remove part of your disc through this tube.

III. Endoscopic: This involves inserting a tiny video camera (called an endoscope) through a tube to enable your surgeon to see your spine and remove disc material with miniaturized instruments.

RATIONALE

Overall, the literature suggests that lumbar discectomy provides effective clinical benefit in carefully selected patients with sciatica. There is strong evidence in favor of microdiscectomy surgery over conservative treatment at short-term follow-up. The comparative evidence on lumbar discectomy versus conservative care consists of a small number of RCTs and nonrandomized comparative studies. The RCT evidence is limited by a lack of high-quality trials. In most, a high percentage of patients in the conservative care group crossed over to receive surgery. This high degree of contamination reduced the power to detect a difference when assessed by ITT analysis. Analysis by treatment received was also flawed because of the potential noncomparability of groups resulting from the high crossover. Despite the methodologic limitations of the evidence, the RCTs are consistent in demonstrating a probable short-term benefit for surgery and a more rapid resolution of pain and disability. For the ITT analyses, there were small differences in favor of surgery, which sometimes were statistically significant and other times not. In contrast, on analysis by treatment received and in the nonrandomized comparative studies, there were larger differences in favor of surgery that exceed the threshold for clinical significance. At time points of one year or longer, outcomes from surgery and conservative care appear to be equivalent.

In 2015, Lewis and colleagues published a network meta-analysis comparing 21 different strategies for treatment of sciatica. Reviewers included a total of 122 comparative studies, 90 of which were RCTs. For disc surgery, 8 studies compared surgery with conservative care (three RCTs, one quasi-RCT, four cohort studies), and 34 studies compared discectomy with alternative treatments, including other surgical variations. For the main outcome (overall recovery), surgery was better than exercise therapy, traction, and percutaneous discectomy. However, for the outcome of pain, disc surgery was not found to be better than alternative treatments.
A systematic review based on a Cochrane review was published by Jacobs, et al. in 2011. Reviewers evaluated surgery and conservative management of sciatica due to lumbar herniated disc. They included five RCTs, four of which are discussed below, with the additional trial being a 1983 trial excluded from this review. Reviewers assigned a low risk of bias to two of the four trials, the randomized (Spine Patient Outcomes Research Trial [SPORT]) and the Leiden-The Hague Spine Intervention Prognostic Study. They determined that pooling of the results was not appropriate due to differences in study methodologies, so a qualitative synthesis of the data was performed. Reviewers concluded that surgery was likely to lead to better short-term control of leg pain, but that the overall quality of the body of evidence for this outcome was low. No differences were demonstrated between surgical and conservative care outcomes at 1 year and beyond.

Chou et al. (2009) published a systematic review of the evidence for efficacy of different surgical procedures for back pain, in conjunction with development of clinical guidelines for the American Pain Society. For the comparison of discectomy with nonsurgical care, 4 studies were included, 3 of which are reviewed below. Studies were not pooled. Reviewers found that discectomy, performed either by open surgery or microdiscectomy, had superior outcomes for pain and disability at up to 3 months, but no definite benefits at longer time points.

Weinstein et al. (2006) reported on SPORT, a moderately large trial that compared discectomy to nonoperative care in patients with lumbar disc herniation and included both a randomized and a nonrandomized component. The RCT included 501 patients randomized to discectomy or to usual care. Discectomy was performed by the open technique and, in some cases, the medial border of the superior facet joint was removed. Crossover was allowed during the trial, 107 of 245 patients assigned to usual care underwent surgery, and 140 of 245 patients assigned to the surgery group underwent surgery. The main outcomes were changes from baseline in the bodily pain and physical function subscales of the SF-36 and the modified Oswestry Disability Index (ODI) measured at time points up to 2 years. Secondary outcomes included self-reported improvement, work status, satisfaction with care, and a symptom severity measure (Sciatica Bother-someness Index). For the primary outcomes evaluated using intention-to-treat (ITT) analysis, improvements in ODI scores were superior for the surgery group at three months, but, at the one- and two-year follow-ups, there were no significant group differences on either primary outcome. For secondary outcomes, there were significant improvements for the surgery group on the Sciatica Bother-someness Index at all time points, and satisfaction with care was superior for the surgery group at 3 months, but not at longer time points. A secondary analysis was performed on a treatment-received basis, and this analysis showed significantly greater improvements for the surgery group at all time points. The estimated treatment effects for the SF-36 bodily pain and physical function subscales were 15.0 and 17.5, respectively, on a 0-to-100 scale. The estimated change in the ODI score was -15.0 on a 0 to 100 scale.

CODES

- Eligibility for reimbursement is based upon the benefits set forth in the member’s subscriber contract.
- CODES MAY NOT BE COVERED UNDER ALL CIRCUMSTANCES. PLEASE READ THE POLICY AND GUIDELINES STATEMENTS CAREFULLY.
- Codes may not be all inclusive as the AMA and CMS code updates may occur more frequently than policy updates.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>62380</td>
<td>Endoscopic decompression of spinal cord, nerve root(s), including laminotomy, partial facetectomy, foraminotomy, discectomy, and/or excision of herniated intervertebral disc, 1 interspace, lumbar</td>
</tr>
<tr>
<td>63030</td>
<td>Laminotomy (hemilaminectomy), with decompression of nerve root(s), including partial facetectomy, foraminotomy and/or excision of herniated intervertebral disc; 1 interspace, lumbar</td>
</tr>
<tr>
<td>63035</td>
<td>Laminotomy (hemilaminectomy), with decompression of nerve root(s), including partial facetectomy, foraminotomy and/or excision of herniated intervertebral disc; each additional interspace, cervical or lumbar [when specified as lumbar]</td>
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<tr>
<td>Code</td>
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<tr>
<td>63042</td>
<td>Laminotomy (hemilaminectomy), with decompression of nerve root(s), including partial facetectomy, foraminotomy and/or excision of herniated intervertebral disc, re-exploration, single interspace; lumbar</td>
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<tr>
<td>63044</td>
<td>Laminotomy (hemilaminectomy), with decompression of nerve root(s), including partial facetectomy, foraminotomy and/or excision of herniated intervertebral disc, re-exploration, single interspace; each additional lumbar interspace</td>
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<td>63056</td>
<td>Transpedicular approach with decompression of spinal cord, equine and/or nerve root(s) (e.g., herniated intervertebral disc), single segment; lumbar (including transfacet, or lateral extraforaminal approach) (e.g., far lateral herniated intervertebral disc)</td>
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<tr>
<td>63057</td>
<td>Transpedicular approach with decompression of spinal cord, equina and/or nerve root(s) (eg, herniated intervertebral disc), single segment; each additional segment, thoracic or lumbar [when specified as lumbar]</td>
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<td>63267</td>
<td>Laminectomy for excision or evacuation of intraspinal lesion other than neoplasm, extradural; lumbar</td>
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<td>63272</td>
<td>Laminectomy for excision of intraspinal lesion other than neoplasm, intradural; lumbar</td>
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<tr>
<td>63277</td>
<td>Laminectomy for biopsy/excision of intraspinal neoplasm; extradural, lumbar</td>
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**HCPCS Codes**

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<tr>
<td>S2350</td>
<td>Discectomy, anterior with decompression of spinal cord and/or nerve root(s); including osteophytectomy; lumbar, single interspace</td>
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<tr>
<td>S2351</td>
<td>Discectomy, anterior with decompression of spinal cord and/or nerve root(s); including osteophytectomy; lumbar, each additional interspace</td>
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**ICD10 Codes**

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<th>Code</th>
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<tr>
<td>D16.6</td>
<td>Benign neoplasm of vertebral column</td>
</tr>
<tr>
<td>D32.1</td>
<td>Benign neoplasm of spinal meninges</td>
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<tr>
<td>D33.4</td>
<td>Benign neoplasm of spinal cord</td>
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<td>M51.06</td>
<td>Intervertebral disc disorders with myelopathy, lumbar region</td>
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<td>M51.16-M51.17</td>
<td>Intervertebral disc disorders with radiculopathy, lumbar/lumbosacral regions</td>
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<td>M51.26-M51.27</td>
<td>Other intervertebral disc displacement, lumbar/lumbosacral regions</td>
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<td>M51.36-M51.37</td>
<td>Other intervertebral disc degeneration, lumbar/lumbosacral regions</td>
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<td>M51.46-M51.47</td>
<td>Schmorl’s nodes, lumbar/lumbosacral regions</td>
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<tr>
<td>M51.86-M51.87</td>
<td>Other intervertebral disc disorders, lumbar/lumbosacral regions</td>
</tr>
<tr>
<td>M54.16-M54.17</td>
<td>Radiculopathy, lumbar/lumbosacral regions</td>
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REFERENCES


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*Key Article

**KEY WORDS**

Hemilaminectomy, Laminectomy, Laminotomy, Microdiscectomy

**CMS COVERAGE FOR MEDICARE PRODUCT MEMBERS**

Based upon review, lumbar microdiscectomy is not specifically addressed in a National or Local Medicare coverage determination or policy.