

# Anterior Cervical Discectomy and Fusion or Posterior Cervical Foraminotomy with or without Partial Discectomy for Cervical Radiculopathy

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| <a href="#">Coverage Policy</a>  | Surgical 177 |
| <a href="#">Version</a>          | 2            |

**Member-specific benefits take precedence over medical policy and benefits may vary across plans. Refer to the individual's benefit plan for details<sup>\*</sup>.**

### Purpose:

This policy addresses the medical necessity of **Cervical spinal surgeries**.

### Description & Definitions:

**Discectomy** is a procedure that involves removal of the herniated or degenerated disc, normally thought to be the cause of pain to relieve symptoms. Discectomy can be done by the standard open procedure or by microdiscectomy which is performed with an operating microscope through a smaller incision.

**Foraminotomy** is a procedure that involves removal of bone around the neural foramen thereby enlarging the space where the nerve root exists and relieving these nerve roots from compression.

**Fusion** is a procedure that unites(fuses) two or more vertebral bodies together. The goal is to restrict spinal motion, provide stability and relieve pain. All involve the placement of a bone graft between the vertebrae. Fusion can be performed with or without supplemental hardware (instrumentation) such as plates, screws or cages-for additional stability. Fusion can be performed at the Cervical, Thoracic, lumbar or sacral levels.

**Laminotomy** is a procedure that involves the removal of part or all of one or both lamina of the vertebra at the involved level. This is done to decompress the spinal canal in cases of spinal stenosis.

### Criteria:

**Anterior cervical discectomy and fusion or posterior cervical foraminotomy with or without discectomy** are considered medically necessary for **1 or more** of the following:

- Procedure is indicated for **1 or more** of the following:
  - Cervical radiculopathy and **ALL of the** following:

- Individual has significant (eg, impacts activities or sleep) signs or symptoms due to nerve root compression (eg, pain, weakness).
  - Confirmed by imaging studies (e.g., CT or MRI), or other neuroimaging finding correlates with clinical signs and symptoms of a herniated disc causing nerve root and/or spinal cord compression and/or spinal stenosis (central, lateral recess or foraminal stenosis) graded by a board-certified radiologist as moderate, moderate to severe or severe (not mild or mild to moderate) with unremitting pain, at the level expected to produce corresponding neurological findings.
  - Surgery appropriate, as indicated by **1 or more** of the following:
    - Failure of a 6 week trial of nonoperative/conservative treatment that includes **1 or more** of the following:
      - NSAIDs
      - Non-narcotic analgesics (eg, tricyclic antidepressants, anticonvulsants)
      - Narcotic analgesics
      - Cervical collar
      - Physical therapy with all of the following:
        - A discharge note from a physical therapist documents lack of utility of further physical therapy
      - Epidural or oral corticosteroids
    - Progressive and/or profound (ie, worsening) neurologic deficit (eg, weakness, paralysis)
- Cervical myelopathy (Note: may be combined with a laminectomy) and **ALL of the** following:
  - Signs or symptoms of myelopathy, as evidenced by **1 or more** of the following:
    - Upper limb weakness in more than single nerve root distribution
    - Lower limb weakness in upper motor neuron distribution
    - Loss of dexterity (eg, clumsiness of hands)
    - Bowel or bladder incontinence
    - Frequent falls
    - Hyperreflexia
    - Hoffmann sign
    - Increased extremity muscle tone or spasticity
    - Gait abnormality
    - Positive Babinski sign
    - Alternative clinical signs or symptoms of myelopathy
  - Confirmed by imaging studies (e.g., CT or MRI), or other neuroimaging finding correlates with clinical signs and symptoms of a herniated disc causing nerve root and/or spinal cord compression and/or spinal stenosis (central, lateral recess or foraminal stenosis) graded by a board-certified radiologist as moderate, moderate to severe or severe (not mild or mild to moderate) with unremitting pain, at the level expected to produce corresponding neurological findings.
  - Failure of a 6-week trial of nonoperative/conservative treatment that includes **1 or more** of the following:
    - NSAIDs
    - Non-narcotic analgesics (eg, tricyclic antidepressants, anticonvulsants)
    - Narcotic analgesics
    - Cervical collar
    - Physical therapy with **all of the** following:
      - A discharge note from a physical therapist documents lack of utility of further physical therapy
    - Epidural or oral corticosteroids
- Need for procedure as part of decompression procedure for primary or metastatic cervical spine tumors with **all of the** following:
  - Confirmed by imaging studies (e.g., CT or MRI), which may be combined with a laminectomy
- Need for procedure as part of decompression or debridement procedure for cervical spine infection with **all of the** following:
  - Confirmed by imaging studies (e.g., CT or MRI) and/or other studies (e.g., biopsy), which may be combined with a laminectomy
- Need for procedure as part of treating cervical spine injury/trauma confirmed by imaging studies (e.g., CT or MRI), which may be combined with a laminectomy, including **1 or more** of the following:

- Spinal cord compression (central cord syndrome)
- Hyperextension injury, with or without avulsion fracture
- Unilateral or bilateral facet subluxation
- Unilateral or bilateral facet fracture dislocation
- Foreign bodies
- Bony fracture fragments
- Epidural hematoma
- Other severe or unstable injury
- Anterior cervical disectomy and fusion, posterior cervical foraminotomy with or without disectomy for 2-4 contiguous levels (Note: may be combined with a laminectomy) for individuals with **all of the following** (Note: For radiographic evidence of cervical cord compression, immediate surgical intervention will be authorized):
  - Skeletally mature persons
  - Symptomatic cervical degenerative disc disease or herniated disc at one level from C3 to T1 (e.g., radicular neck and/or arm pain and/or functional/neurological deficit)
  - Confirmed by imaging radiographic studies (e.g., CT, MRI, x-rays)
  - Failed at least 6 weeks of conservative management that includes **1 or more** of the following:
    - NSAIDS
    - Non-narcotic analgesics (eg, tricyclic antidepressants, anticonvulsants)
    - Narcotic analgesics
    - Cervical collar
    - Physical therapy with all of the following:
      - A discharge note from a physical therapist documents lack of utility of further physical therapy
    - Epidural or oral corticosteroids
- Cervical kyphosis associated with cord compression (Note: may be combined with a laminectomy)
- Symptomatic pseudarthrosis (non-union of prior fusion) with **1 or more** of the following:
  - Confirmed by imaging studies (e.g., CT or MRI) demonstration of non-union of prior fusion (lack of bridging bone or abnormal motion at fused segment) after 12 months since fusion surgery
  - Confirmed by imaging studies of hardware failure (fracture or displacement)
- Atlantoaxial (C1-C2) subluxation (e.g., associated with congenital anomaly, os odontoideum, or rheumatoid arthritis) noted as widening of the atlantodens interval greater than 3 mm with **all of the following**:
  - Confirmed by imaging studies (e.g., CT or MRI)
- Basilar invagination of the odontoid process into the foramen magnum
- Subaxial (C2-T1) instability with **all of the following**:
  - Confirmed by imaging studies, when **all of the following** are met:
    - Significant instability (sagittal plane translation of at least 3 mm on flexion and extension views or relative sagittal plane angulation greater than 11 degrees)
    - Symptomatic unremitting pain that has failed 3 months of conservative management (unless there is evidence of cervical cord compression or other indications for waiver of requirements for conservative management, noted below)
- Adjunct to excision of synovial cysts causing spinal cord or nerve root compression with unremitting pain with **all of the following**:
  - Confirmed by imaging studies (e.g., CT or MRI) and with corresponding neurological deficit
  - Failure of a 6-week trial of nonoperative/conservative treatment that includes **1 or more** of the following:
    - NSAIDs
    - Non-narcotic analgesics (eg, tricyclic antidepressants, anticonvulsants)
    - Narcotic analgesics
    - Cervical collar
    - Physical therapy with **all of the following**:
      - A discharge note from a physical therapist documents lack of utility of further physical therapy
    - Epidural or oral corticosteroids
- Clinically significant deformity of the spine (kyphosis, head-drop syndrome, post-laminectomy deformity) that meets **1 or more** of the following criteria:
  - The deformity prohibits forward gaze

- The deformity is associated with severe neck pain, difficulty ambulating, and interference with activities of daily living
  - Documented progression of the deformity
- The requirement for a trial of nonoperative/conservative measures may be waived in **1 or more** of the following situations indicating need for urgent intervention:
  - Spinal cord compression (this does not include nerve root compression)
  - Stenosis causing cauda equina syndrome
  - Stenosis causing myelopathy
  - Stenosis causing severe weakness (graded 4 minus or less on MRC scale)
  - Severe stenosis associated with instability ((dynamic excursion of greater than 1mm translation or greater than 5 degrees angulation at an interspace) when fusion is requested (not just decompression only)
  - Progressive neurological deficit on serial examinations
  - For individual with residual menstrual bleeding after androgen treatment in an individual with confirmed gender dysphoria and/or undergoing female to male hormonal gender reassignment therapy

**Anterior cervical disectomy and fusion, posterior cervical foraminotomy** with or without disectomy is **not medically necessary** for any use other than those indicated in clinical criteria, to include but not limited to:

- Microsurgical anterior foraminotomy for cervical spondylotic myelopathy or other indications
- Percutaneous cervical disectomy
- Stereotactic computer-assisted (navigational) procedure for cervical spinal fusion
- ZERO-P implant, also known as Zero-P PEEK device intended for use in cervical interbody fusion

### Coding:

#### Medically necessary with criteria:

| Coding | Description  |
|--------|--|
| 20930  | Allograft, morselized, or placement of osteopromotive material, for spine surgery only (List separately in addition to code for primary procedure)   |
| 20931  | Allograft, structural, for spine surgery only (List separately in addition to code for primary procedure)  |
| 20932  | Allograft, includes templating, cutting, placement and internal fixation, when performed; osteoarticular, including articular surface and contiguous bone (List separately in addition to code for primary procedure)  |
| 20933  | Allograft, includes templating, cutting, placement and internal fixation, when performed; hemicortical intercalary, partial (ie, hemicylindrical) (List separately in addition to code for primary procedure)  |
| 20936  | Autograft for spine surgery only (includes harvesting the graft); local (eg, ribs, spinous process, or laminar fragments) obtained from same incision (List separately in addition to code for primary procedure)  |
| 20939  | Bone marrow aspiration for bone grafting, spine surgery only, through separate skin or fascial incision (List separately in addition to code for primary procedure)  |
| 22548  | Arthrodesis, anterior transoral or extraoral technique, clivus-C1-C2 (atlas-axis), with or without excision of odontoid process  |
| 22551  | Arthrodesis, anterior interbody, including disc space preparation, discectomy, osteophytectomy and decompression of spinal cord and/or nerve roots; cervical below C2  |
| 22552  | Arthrodesis, anterior interbody, including disc space preparation, discectomy, osteophytectomy and decompression of spinal cord and/or nerve roots; cervical below C2, each additional interspace (List separately in addition to code for separate procedure) |

|       |  |
|-------|--|
| 22554 | Arthrodesis, anterior interbody technique, including minimal discectomy to prepare interspace (other than for decompression); cervical below C2  |
| 22590 | Arthrodesis, posterior technique, craniocervical (occiput-C2)  |
| 22595 | Arthrodesis, posterior technique, atlas-axis (C1-C2)   |
| 22600 | Arthrodesis, posterior or posterolateral technique, single interspace; cervical below C2 segment   |
| 22840 | Posterior non-segmental instrumentation (eg, Harrington rod technique, pedicle fixation across 1 interspace, atlantoaxial transarticular screw fixation, sublaminar wiring at C1, facet screw fixation) (List separately in addition to code for primary procedure)  |
| 22841 | Internal spinal fixation by wiring of spinous processes (List separately in addition to code for primary procedure)  |
| 22842 | Posterior segmental instrumentation (eg, pedicle fixation, dual rods with multiple hooks and sublaminar wires); 3 to 6 vertebral segments (List separately in addition to code for primary procedure)  |
| 22843 | Posterior segmental instrumentation (eg, pedicle fixation, dual rods with multiple hooks and sublaminar wires); 7 to 12 vertebral segments (List separately in addition to code for primary procedure)   |
| 22844 | Posterior segmental instrumentation (eg, pedicle fixation, dual rods with multiple hooks and sublaminar wires); 13 or more vertebral segments (List separately in addition to code for primary procedure)  |
| 22845 | Anterior instrumentation; 2 to 3 vertebral segments (List separately in addition to code for primary procedure)  |
| 22846 | Anterior instrumentation; 4 to 7 vertebral segments (List separately in addition to code for primary procedure)  |
| 22853 | Insertion of interbody biomechanical device(s) (eg, synthetic cage, mesh) with integral anterior instrumentation for device anchoring (eg, screws, flanges), when performed, to intervertebral disc space in conjunction with interbody arthrodesis, each interspace (List separately in addition to code for primary procedure)   |
| 22854 | Insertion of intervertebral biomechanical device(s) (eg, synthetic cage, mesh) with integral anterior instrumentation for device anchoring (eg, screws, flanges), when performed, to vertebral corpectomy(ies) (vertebral body resection, partial or complete) defect, in conjunction with interbody arthrodesis, each contiguous defect (List separately in addition to code for primary procedure) |
| 63001 | Laminectomy with exploration and/or decompression of spinal cord and/or cauda equina, without facetectomy, foraminotomy or discectomy (eg, spinal stenosis), 1 or 2 vertebral segments; cervical   |
| 63015 | Laminectomy with exploration and/or decompression of spinal cord and/or cauda equina, without facetectomy, foraminotomy or discectomy (eg, spinal stenosis), more than 2 vertebral segments; cervical  |
| 63020 | Laminotomy (hemilaminectomy), with decompression of nerve root(s), including partial facetectomy, foraminotomy and/or excision of herniated intervertebral disc; 1 interspace, cervical  |
| 63035 | 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 (List separately in addition to code for primary procedure)  |
| 63040 | Laminotomy (hemilaminectomy), with decompression of nerve root(s), including partial facetectomy, foraminotomy and/or excision of herniated intervertebral disc, reexploration, single interspace; cervical  |

|       |   |
|-------|---|
| 63043 | Laminotomy (hemilaminectomy), with decompression of nerve root(s), including partial facetectomy, foraminotomy and/or excision of herniated intervertebral disc, reexploration, single interspace; each additional cervical interspace (List separately in addition to code for primary procedure)  |
| 63045 | Laminectomy, facetectomy and foraminotomy (unilateral or bilateral with decompression of spinal cord, cauda equina and/or nerve root[s], [eg, spinal or lateral recess stenosis]), single vertebral segment; cervical   |
| 63048 | Laminectomy, facetectomy and foraminotomy (unilateral or bilateral with decompression of spinal cord, cauda equina and/or nerve root[s], [eg, spinal or lateral recess stenosis]), single vertebral segment; each additional vertebral segment, cervical, thoracic, or lumbar (List separately in addition to code for primary procedure) |
| 63075 | Discectomy, anterior, with decompression of spinal cord and/or nerve root(s), including osteophylectomy; cervical, single interspace  |
| 63076 | Discectomy, anterior, with decompression of spinal cord and/or nerve root(s), including osteophylectomy; cervical, each additional interspace (List separately in addition to code for primary procedure)   |
| 63270 | Laminectomy for excision of intraspinal lesion other than neoplasm, intradural; cervical  |
| 63280 | Laminectomy for biopsy/excision of intraspinal neoplasm; intradural, extramedullary, cervical   |
| 63285 | Laminectomy for biopsy/excision of intraspinal neoplasm; intradural, intramedullary, cervical   |

#### Considered Not Medically Necessary:

| Coding | Description |
|--------|-------------|
|        | None        |

U.S. Food and Drug Administration (FDA) - approved only products only.

#### Document History:

##### Revised Dates:

- 2022: November
- 2020: August
- 2016: April
- 2015: February, May, September
- 2014: January, June, August, November
- 2013: May, June
- 2012: February, May
- 2011: May, June, November
- 2010: May
- 2009: May
- 2008: May
- 2006: October
- 2004: September
- 2002: August

##### Reviewed Dates:

- 2023: October
- 2019: April
- 2018: November
- 2017: December
- 2016: May
- 2014: May

- 2010: April
- 2007: December
- 2005: February, October
- 2004: July

2003: July Effective Date:

- May 2002

## References:

Specialty Association Guidelines; Government Regulations; Winifred S. Hayes, Inc; UpToDate; Literature Review; Specialty Advisors; National Coverage Determination (NCD); Local Coverage Determination (LCD).

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(2023). Retrieved Sept 28, 2023, from HAYES: <https://evidence.hayesinc.com/search?q=%257B%2522text%2522:%2522Cervical%2520Discectomy%2522,%2522title%2522:null,%2522termsource%2522:%2522searchbar%2522,%2522page%2522:%257B%2522page%2522:0,%2522size%2522:50%257D,%2522type%2522:%2522all%2522,%2522source>

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## Special Notes: \*

This medical policy expresses Sentara Health Plan's determination of medical necessity of services, and they are based upon a review of currently available clinical information. Medical policies are not a substitute for clinical judgment or for any prior authorization requirements of the health plan. These policies are not an explanation of benefits.

Medical policies can be highly technical and complex and are provided here for informational purposes. These medical policies are intended for use by health care professionals. The medical policies do not constitute medical advice or medical care. Treating health care professionals are solely responsible for diagnosis, treatment and medical advice. Sentara Health Plan members should discuss the information in the medical policies with their treating health care professionals. Medical technology is constantly evolving and these

medical policies are subject to change without notice, although Sentara Health Plan will notify providers as required in advance of changes that could have a negative impact on benefits.

**Keywords:**

Cervical Discectomy or Microdiscectomy, Foraminotomy, Laminotomy, SHP Surgical 117, Cervical radiculopathy, Cervical myelopathy, primary cervical spine tumors, metastatic cervical spine tumors, cervical spine infection, cervical spine injury, Spinal cord compression, central cord syndrome, Hyperextension injury, with or without avulsion fracture, Unilateral or bilateral facet subluxation, Unilateral or bilateral facet fracture dislocation, Foreign bodies, Bony fracture fragments, Epidural hematoma, Cervical Discectomy Level 2