

# Lumbar Radiculopathy with or without Disc Herniation

**Clinical Guidelines for Medical Necessity Review** 

Version:V7.0Effective Date:December 29, 2022

# **Important Notices**

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#### **Guideline Information**:

**Disease Area:** Diseases of the musculoskeletal system and connective tissue (M00-M99) **CarePath Group:** Spine **CarePath Name:** Lumbar Radiculopathy with or without Disc Herniation (M51, M54) **Type:** [X] Adult (18+ yo) | [\_] Pediatric (0-17yo)

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Literature review current through: December 29, 2022
Document last updated: December 29, 2022

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# **Care Path Overview**

### **Care Path Clinical Discussion**

*Lumbar radiculopathy* is nerve dysfunction from nerve root compression in the lumbar spine. Some common symptoms include "neuropathic pain, sensory dysfunction, and motor deficits."<sup>1</sup> While lumbar disc herniations are the most common cause, other pathologies (e.g., stenosis, spondylolisthesis) may also cause radiculopathy.<sup>1</sup>

The North American Spine Society defines *lumbar disc herniation with radiculopathy* as "localized displacement of disc material beyond the normal margins of the intervertebral disc space resulting in pain, weakness or numbness in a myotomal or dermatomal distribution."<sup>2</sup>

#### **Key Information**

- Lumbosacral radiculopathy is a common complaint. Patients typically present at their annual doctor's visit with their primary care provider and are subsequently evaluated by a spine surgeon.<sup>3</sup>
- Lumbar radiculopathy has a population prevalence of 3%-5%. Risk factors include placing repetitive or excessive load on the spine; patients are more likely to develop the condition if they are involved in heavy manual labor, luplay contact sports or sports like golf, or serve in the military. Symptoms typically start when patients are 40-50 years old and are more common in men.<sup>3</sup>
- The vast majority of cases are benign and resolve on their own. The first line of treatment involves conservative management such as anti-inflammatory medication and physical therapy.<sup>3</sup>
- Epidural steroid injections are a reasonable means to treat symptoms, but there is no evidence proving long-term outcomes. If non-surgical and conservative management fails, percutaneous discectomy and lumbar fusion may be appropriate.<sup>4</sup>

# **Definitions**

- <u>Lumbar radiculopathy:</u> Nerve dysfunction caused by nerve root compression in the lumbar spine. Symptoms include neuropathic pain, sensory dysfunction, and motor deficits as stated in the multispecialty society statement. The most common cause is a lumbar disc herniation, although other pathologies including but not limited to stenosis and spondylolisthesis can also cause radiculopathy.<sup>1</sup>
- <u>Lumbar disc herniation with radiculopathy:</u> Defined by the North American Spine Society as "localized displacement of disc material beyond the normal margins of the intervertebral disc space resulting in pain, weakness or numbness in a myotomal or dermatomal distribution."<sup>2</sup>
- **Dermatomes:** Nerve fibers that provide sensations of touch or pain to a corresponding sensory sector of the skin.
- **<u>Myotomes:</u>** Muscles served by the spinal root.
- <u>Straight leg raise test:</u> A neurological maneuver in which an examiner gently raises a supine patient's leg by flexing the hip with the knee in full extension. A positive result occurs when the patient experiences pain 1) along the lower limb in the same distribution of the lower radicular nerve roots, or 2) elicited by lower limb flexion in a greater than 45° angle.<sup>5</sup>
- <u>Contralateral straight leg raise or crossed straight leg raise (crossed Lasegue)</u>: A test where an examiner raises the supine patient's unaffected leg. A positive result occurs if radicular pain is reproduced in the affected leg while the contralateral leg is raised.

- **Femoral nerve stretch:** The patient lies prone, the knee is passively flexed to the thigh, and the hip is passively extended. The test is positive if the patient experiences anterior thigh pain.
- **Slump test:** A neural tension maneuver or a sciatic stretch test where patients report on their symptoms at each step. The test begins with a patient seated with both the hips and knees positioned at 90° and their hands behind their back to achieve a neutral spine. The examiner has the patient slump forward at the thoracic and lumbar spine while maintaining the head and neck in neutral position. The examiner applies pressure over the shoulders, and the patient places their chin on their chest. The patient extends their knee while the examiner uses one hand to apply overpressure to the triple flexion position and uses the other hand to add passive dorsiflexion to the patient's extended foot. A positive result occurs when the patient experiences pain and the test ceases.<sup>6,2</sup>
- **Spinal Instability:** The ability of the spine under physiologic loads to limit patterns of displacement so as 1) not to damage or irritate the spinal cord and nerve roots and 2) prevent incapacitating deformity or pain due to structural changes. Instability (acute or chronic) refers to an excessive displacement of the spine that would result in a neurologic deficit, deformity, or pain.<sup>8</sup>
- latrogenic instability: Instability caused by a previous surgery.

### Lumbar Radiculopathy

#### What is a "Cohere Care Path"?

These Care Paths organize the services typically considered most clinically optimal and likely to be automatically approved. These service recommendations also include the suggested sequencing and quantity or frequency determined clinically appropriate and medically necessary for the management of most patient care scenarios in this Care Path's diagnostic cohort.

|                            |  | Non-Surgical<br>Management | Surgical<br>Management  |
|----------------------------|--|----------------------------|-------------------------|
| Diagnostics                | Radiography                              |                            |                         |
|                            | Anti-Inflammatory or Pain Management     |                            | Non                     |
| Conservative<br>Therapy    | Physical Therapy PA,*                    |                            | n-Surg                  |
|                            | Chiropractic Care PA                     |                            | Non-Surgical Management |
|                            | Magnetic Resonance Imaging (MRI) PA,*    |                            | Man                     |
| Advanced<br>Imaging        | Computed Tomography Myelogram (CTM) PA,* | ₽<br>₽<br>₽                | ngem                    |
|                            | Computed Tomography (CT) PA              |                            | ent                     |
| Non-Surgical<br>Management | Epidural Steroid Injection PA            |                            |                         |
|                            | Discectomy PA                            | i                          |                         |
| Surgical<br>Management     | Decompression PA                         |                            | <b>O</b>                |
| Management                 | Lumbar Fusion PA                         |                            |                         |
| Post-<br>Operative<br>Care | Physical Therapy PA                      |                            |                         |
|                            | Home Health PA,                          |                            | OR<br>OR                |
|                            | Skilled Nursing Facility PA              |                            |                         |
|                            | Inpatient Rehabilitation PA              |                            |                         |
|                            |  |                            |                         |

#### Key

**PA** = Service may require prior authorization

- \* = Denotes preferred service
- AND = Services completed concurrently
- OR = Services generally mutually exclusive
- = Non-surgical management prior authorization group of services
- - = Surgical management prior authorization group of services
  - = Subsequent service
  - = Management path moves to a different management path

# **Care Path Diagnostic Criteria**

## **Disease Classification**

Lumbar Radiculopathy with or without Disc Herniation

| ICD-10 Code | Code Description/Definition   |
|-------------|---|
| G95.20      | Unspecified cord compression  |
| G95.9       | Disease of spinal cord, unspecified   |
| M43.10      | Spondylolisthesis, site unspecified   |
| M45.9       | Ankylosing spondylitis of unspecified sites in spine                          |
| M46.00      | Spinal enthesopathy, site unspecified   |
| M46.05      | Spinal enthesopathy, thoracolumbar region                                     |
| M46.06      | Spinal enthesopathy, lumbar region  |
| M46.07      | Spinal enthesopathy, lumbosacral region                                       |
| M46.08      | Spinal enthesopathy, sacral and sacrococcygeal region                         |
| M46.09      | Spinal enthesopathy, multiple sites in spine                                  |
| M46.20      | Osteomyelitis of vertebra, site unspecified                                   |
| M46.25      | Osteomyelitis of vertebra, thoracolumbar region                               |
| M46.26      | Osteomyelitis of vertebra, lumbar region                                      |
| M46.27      | Osteomyelitis of vertebra, lumbosacral region                                 |
| M46.28      | Osteomyelitis of vertebra, sacral and sacrococcygeal region                   |
| M46.30      | Infection of intervertebral disc (pyogenic), site unspecified                 |
| M46.35      | Infection of intervertebral disc (pyogenic), thoracolumbar region             |
| M46.36      | Infection of intervertebral disc (pyogenic), lumbar region                    |
| M46.37      | Infection of intervertebral disc (pyogenic), lumbosacral region               |
| M46.38      | Infection of intervertebral disc (pyogenic), sacral and sacrococcygeal region |
| M46.39      | Infection of intervertebral disc (pyogenic), multiple sites in spine          |

#### ICD-10 Codes Associated with Classification

| M46.40  | Discitis, unspecified, site unspecified  |
|---------|--|
| M46.45  | Discitis, unspecified, thoracolumbar region                                    |
| M46.46  | Discitis, unspecified, lumbar region   |
| M46.47  | Discitis, unspecified, lumbosacral region                                      |
| M46.48  | Discitis, unspecified, sacral and sacrococcygeal region                        |
| M46.49  | Discitis, unspecified, multiple sites in spine                                 |
| M47.26  | Other spondylosis with radiculopathy, lumbar region                            |
| M47.27  | Other spondylosis with radiculopathy, lumbosacral region                       |
| M47.28  | Other spondylosis with radiculopathy, sacral and sacrococcygeal region         |
| M47.819 | Spondylosis without myelopathy or radiculopathy, site unspecified              |
| M48.25  | Kissing spine, thoracolumbar region  |
| M48.26  | Kissing spine, lumbar region   |
| M48.27  | Kissing spine, lumbosacral region  |
| M48.35  | Traumatic spondylopathy, thoracolumbar region                                  |
| M48.36  | Traumatic spondylopathy, lumbar region   |
| M48.37  | Traumatic spondylopathy, lumbosacral region                                    |
| M51.06  | Intervertebral disc disorders with myelopathy, lumbar region                   |
| M51.15  | Intervertebral disc disorders with radiculopathy, thoracolumbar region         |
| M51.16  | Intervertebral disc disorders with radiculopathy, lumbar region                |
| M51.17  | Intervertebral disc disorders with radiculopathy,<br>lumbosacral region        |
| M51.2   | Other thoracic, thoracolumbar and lumbosacral intervertebral disc displacement |
| M51.24  | Other intervertebral disc displacement, thoracic region                        |
| M51.25  | Other intervertebral disc displacement, thoracolumbar region                   |
| M51.26  | Other intervertebral disc displacement, lumbar region                          |
| M51.27  | Other intervertebral disc displacement, lumbosacral region                     |
| M51.35  | Other intervertebral disc degeneration, thoracolumbar region                   |

| Other intervertebral disc degeneration, lumbar region                        |
|--|
| Other intervertebral disc degeneration, lumbosacral region                   |
| Spinal instabilities, thoracolumbar region                                   |
| Spinal instabilities, lumbar region  |
| Spinal instabilities, lumbosacral region                                     |
| Spinal instabilities, sacral and sacrococcygeal region                       |
| Radiculopathy, site unspecified  |
| Radiculopathy, thoracolumbar region  |
| Radiculopathy, lumbar region   |
| Radiculopathy, lumbosacral region  |
| Radiculopathy, sacral and sacrococcygeal region                              |
| Sciatica, unspecified side   |
| Sciatica, right side   |
| Sciatica, left side  |
| Pseudarthrosis after fusion or arthrodesis                                   |
| Postlaminectomy syndrome, not elsewhere classified                           |
| Postlaminectomy kyphosis   |
| Postsurgical lordosis  |
| Subluxation complex (vertebral) of lumbar region                             |
| Subluxation complex (vertebral) of sacral region                             |
| Subluxation stenosis of neural canal of lumbar region                        |
| Subluxation stenosis of neural canal of sacral region                        |
| Osseous stenosis of neural canal of lumbar region                            |
| Osseous stenosis of neural canal of sacral region                            |
| Connective tissue stenosis of neural canal of lumbar region                  |
| Connective tissue stenosis of neural canal of sacral region                  |
| Intervertebral disc stenosis of neural canal of lumbar region                |
| Intervertebral disc stenosis of neural canal of sacral region                |
| Osseous and subluxation stenosis of intervertebral foramina of lumbar region |
| Osseous and subluxation stenosis of intervertebral foramina of sacral region |
|  |

| M99.73 | Connective tissue and disc stenosis of intervertebral<br>foramina of lumbar region |
|--------|--|
|        | Connective tissue and disc stenosis of intervertebral<br>foramina of sacral region |

## **Presentation and Etiology**

#### **Causes and Risk Factors**

The most common cause of lumbar radiculopathy is nerve root compression due to lumbar disc herniation or spondylosis. This often results from the underlying degenerative effects of arthritis on the spine.

#### Clinical Presentation<sup>2.9</sup>

- Lower extremity pain, paresthesia, weakness, or numbness in a myotomal or dermatome distribution.
- Increased pain with coughing, sneezing or straining.
- Low back pain may also be present.

#### **Typical Physical Exam Findings<sup>2</sup>**

- Sensory disturbance (i.e., loss of sensation or decreased sensory response) or weakness in a dermatomal/myotomal distribution.
- Absent or decreased Achilles reflex.
- Reduced spinal mobility.
- Positive specialty tests:
  - o Straight leg raise
    - o Crossed Lasègue's (or crossed straight leg raise)
    - o Femoral nerve stretch
    - o Slump

#### **Typical Diagnostic Findings**

Magnetic resonance imaging (MRI), computed tomography myelogram (CTM), or computed tomography (CT) can confirm a lumbar disc herniation. MRI is preferred; use CTM if MRI is contraindicated and CT if both MRI and CTM are contraindicated.

# Care Path Services & Medical Necessity Criteria

### **Conservative Therapy**

Service: Anti-Inflammatories, Acetaminophen, Gabapentin, or Muscle Relaxers

#### <u>General Guidelines</u>

- Units, Frequency, & Duration: None.
- Criteria for Subsequent Requests: None.
- **Recommended Clinical Approach:** Over the counter (OTC) anti-Inflammatory medications or acetaminophen are not recommended for patients with progressive neurologic impairment. Nonoperative management is effective for acute radicular pain in approximately 70-85% of cases at an average of 4-6 weeks.<sup>10,11</sup>
- Exclusions: None.

#### **Medical Necessity Criteria**

Indications

- → Anti-Inflammatories, Acetaminophen, Gabapentin, or Muscle Relaxers are considered appropriate if ANY of the following are TRUE<sup>2</sup>:
  - The patient has ANY positive findings from the <u>clinical</u> <u>presentation</u> and <u>typical physical exam findings</u> lists.

Non-Indications

None.

<u>Site of Service Criteria</u>

None.

#### Service: Physical Therapy

#### **General Guidelines**

- → Units, Frequency, & Duration: None.
- → Criteria for Subsequent Requests: Base the medical necessity of subsequent physical therapy on the individual's response to the previous session (i.e., clinically relevant sustained reductions in pain, improvement in functional abilities).
- → Recommended Clinical Approach: After physical therapy treatment, provide the patient with a tailored exercise program. Nonoperative management is effective for acute radicular pain in approximately 70-80% of cases at an average of 4-6 weeks.<sup>10,11</sup>
- → Exclusions: None.

#### **Medical Necessity Criteria**

Indications

- → Physical therapy is considered appropriate if ANY of the following is TRUE:
  - It has been more than 3 months since the last date of previous physical therapy and the symptoms are different from the prior presentation.
  - It has been more than 2 weeks since symptom onset.
  - The patient has ANY positive findings from the <u>clinical</u> <u>presentation</u> and <u>typical physical exam findings</u> lists.
  - Post-procedure or postoperative therapy may be warranted to improve pain or function.

Non-Indications

- → Physical therapy is not considered appropriate if ANY of the following is TRUE:
  - Progressive neurological deficits.
  - Recent physical therapy (in the last 3 months) was unsuccessful.

Site of Service Criteria

Outpatient

| HCPCS Code | Code Description/Definition      |
|------------|----------------------------------|
| 97010      | Application of hot or cold packs |

| 97012  | Application of mechanical traction  |
|--------|---|
| 97014  | Application of electrical stimulation   |
| 97016  | Application of vasopneumatic devices  |
| 97018  | Application of paraffin bath  |
| 97022  | Application of whirlpool  |
| 97024  | Application of diathermy  |
| 97026  | Application of infrared modality  |
| 97028  | Application of ultraviolet modality   |
| 97032  | Application of manual electrical stimulation  |
| 97033  | Application of iontophoresis  |
| 97034  | Application of contrast baths   |
| 97035  | Application of ultrasound modality  |
| 97036  | Application of Hubbard tank   |
| 97039  | Modality service  |
| 97110* | Therapeutic exercises to develop strength and endurance, range of motion and flexibility  |
| 97112  | Neuromuscular reeducation of movement, balance,<br>coordination, kinesthetic sense, posture, and<br>proprioception for sitting and standing activities  |
| 97113  | Aquatic therapy with therapeutic exercises  |
| 97116  | Gait training including stair climbing  |
| 97124  | Massage including effleurage and petrissage; Massage<br>including effleurage and tapotement; Massage including<br>effleurage, petrissage and tapotement; Massage<br>including petrissage and tapotement |
| 97139  | Therapeutic procedure   |
| 97140  | Manual therapy techniques   |
| 97150  | Group therapeutic procedures  |
|        |   |

| 97164 | Physical therapy re-evaluation of established plan of care,<br>high complexity, typical time with patient 20 minutes;<br>Physical therapy re-evaluation of established plan of care,<br>high complexity, typical time with patient and family 20<br>minutes;<br>Physical therapy re-evaluation of established plan of care,<br>high complexity, typical time with patient's family 20<br>minutes |
|-------|--|
| 97530 | Direct therapeutic activities with use of dynamic activities to improve functional performance, each 15 minutes  |
| 97535 | Home management training, direct one-on-one contact,<br>each 15 minutes;<br>Self-care management training, direct one-on-one<br>contact, each 15 minutes   |
| 97537 | Community reintegration training, direct one-on-one<br>contact, each 15 minutes;<br>Work reintegration training, direct one-on-one contact,<br>each 15 minutes   |
| 97542 | Wheelchair management, each 15 minutes   |
| 97545 | Work conditioning, initial 2 hours;<br>Work hardening, initial 2 hours   |
| 97546 | Work conditioning, each additional hour;<br>Work hardening, each additional hour   |
| 97750 | Physical performance measurement with written report,<br>each 15 minutes; Physical performance test with written<br>report, each 15 minutes  |
| 97755 | Assistive technology assessment with written report, direct one-on-one contact, each 15 minutes  |

| 97760 | Initial orthotic management and training with assessment<br>and fitting of lower extremities and trunk, each 15 minutes;<br>Initial orthotic management and training with assessment<br>and fitting of lower extremities, each 15 minutes; Initial<br>orthotic management and training with assessment and<br>fitting of lower extremity and trunk, each 15 minutes; Initial<br>orthotic management and training with assessment and<br>fitting of lower extremity, each 15 minutes; Initial<br>orthotic management and training with assessment and<br>fitting of lower extremity, each 15 minutes; Initial orthotic<br>management and training with assessment and fitting of<br>trunk, each 15 minutes; Initial orthotic management and<br>training with assessment and fitting of upper and lower<br>extremities and trunk, each 15 minutes  |
|-------|--|
| 97761 | Initial prosthetic training of lower extremities, each 15<br>minutes;<br>Initial prosthetic training of lower extremity, each 15 minutes<br>Initial prosthetic training of upper and lower extremities,<br>each 15 minutes;<br>Initial prosthetic training of upper extremities, each 15<br>minutes;<br>Initial prosthetic training of upper extremity, each 15<br>minutes   |
| 07700 | Subsequent orthotic management and training of lower<br>extremities and trunk, each 15 minutes<br>Subsequent orthotic management and training of lower<br>extremity and trunk, each 15 minutes<br>Subsequent orthotic management and training of lower<br>extremity, each 15 minutes<br>Subsequent orthotic management and training of upper<br>and lower extremities and trunk, each 15 minutes<br>Subsequent orthotic management and training of upper<br>extremities and trunk, each 15 minutes<br>Subsequent orthotic management and training of upper<br>extremities and trunk, each 15 minutes<br>Subsequent orthotic management and training of upper<br>extremities, each 15 minutes<br>Subsequent orthotic management and training of upper<br>extremity and trunk, each 15 minutes<br>Subsequent orthotic management and training of upper<br>extremity and trunk, each 15 minutes<br>Subsequent orthotic management and training of upper<br>extremity and trunk, each 15 minutes |
| 97763 | Subsequent orthotic management of lower extremities and  |

| trunk, each 15 minutes                                       |
|--|
| Subsequent orthotic management of lower extremity and        |
| trunk, each 15 minutes                                       |
| Subsequent orthotic management of lower extremity, each      |
| 15 minutes   |
| Subsequent orthotic management of upper and lower            |
| extremities and trunk, each 15 minutes                       |
| Subsequent orthotic management of upper extremities          |
| and trunk, each 15 minutes                                   |
| Subsequent orthotic management of upper extremities,         |
| each 15 minutes  |
| Subsequent orthotic management of upper extremity and        |
| trunk, each 15 minutes                                       |
| Subsequent orthotic management of upper extremity, each      |
| 15 minutes   |
| Subsequent orthotic training of lower extremity, each 15     |
| minutes  |
| Subsequent orthotic training of upper and lower extremities  |
| and trunk, each 15 minutes                                   |
| Subsequent orthotic training of upper extremities and trunk, |
| each 15 minutes  |
| Subsequent orthotic training of upper extremities, each 15   |
| minutes  |
| Subsequent orthotic training of upper extremity and trunk,   |
| each 15 minutes  |
| Subsequent orthotic training of upper extremity, each 15     |
| minutes  |
| Subsequent prosthetic management and training of lower       |
| extremities and trunk, each 15 minutes                       |
| Subsequent prosthetic management and training of lower       |
| extremity and trunk, each 15 minutes                         |
| Subsequent prosthetic management and training of lower       |
| extremity, each 15 minutes                                   |
| Subsequent prosthetic management and training of upper       |
| and lower extremities and trunk, each 15 minutes             |
| Subsequent prosthetic management and training of upper       |
| extremities and trunk, each 15 minutes                       |
| Subsequent prosthetic management and training of upper       |
|  |

| <br>r  |
|--|
| extremities, each 15 minutes                                 |
| Subsequent prosthetic management and training of upper       |
| extremity and trunk, each 15 minutes                         |
| Subsequent prosthetic management and training of upper       |
| extremity, each 15 minutes                                   |
| Subsequent prosthetic management of lower extremities        |
| and trunk, each 15 minutes                                   |
| Subsequent prosthetic management of lower extremity          |
| and trunk, each 15 minutes                                   |
| Subsequent prosthetic management of lower extremity,         |
| each 15 minutes  |
| Subsequent prosthetic management of upper and lower          |
| extremities and trunk, each 15 minutes                       |
| Subsequent prosthetic management of upper extremities        |
| and trunk, each 15 minutes                                   |
| Subsequent prosthetic management of upper extremities,       |
| each 15 minutes  |
| Subsequent prosthetic management of upper extremity          |
| and trunk, each 15 minutes                                   |
| Subsequent prosthetic management of upper extremity,         |
| each 15 minutes  |
| Subsequent prosthetic training of lower extremity, each 15   |
| minutes  |
| Subsequent prosthetic training of upper and lower            |
| extremities and trunk, each 15 minutes                       |
| Subsequent prosthetic training of upper extremities and      |
| trunk, each 15 minutes                                       |
| Subsequent prosthetic training of upper extremities, each    |
| 15 minutes   |
| Subsequent prosthetic training of upper extremity and        |
| trunk, each 15 minutes                                       |
| Subsequent prosthetic training of upper extremity, each 15   |
|  |
| Subsequent orthotic management and training of lower         |
| extremities, each 15 minutes                                 |
| Subsequent orthotic management of lower extremities,         |
| each 15 minutes  |
| Subsequent orthotic training of lower extremities and trunk, |

|       | each 15 minutes<br>Subsequent orthotic training of lower extremities, each 15<br>minutes |
|-------|--|
|       | Subsequent orthotic training of lower extremity and trunk, each 15 minutes               |
|       | Subsequent prosthetic management and training of lower extremities, each 15 minutes      |
|       | Subsequent prosthetic management of lower extremities, each 15 minutes                   |
|       | Subsequent prosthetic training of lower extremities and trunk, each 15 minutes           |
|       | Subsequent prosthetic training of lower extremities, each 15 minutes                     |
|       | Subsequent prosthetic training of lower extremity and trunk, each 15 minutes             |
| 97799 | Unlisted physical medicine/rehabilitation service or procedure                           |
| 420   | Physical Therapy   |
| 421   | Physical Therapy: Visit Charge   |
| 422   | Physical Therapy: Hourly Charge  |
| 423   | Physical Therapy: Group Rate   |
| 424   | Physical Therapy: Evaluation/Re-evaluation   |
| 429   | Physical Therapy: Other Physical Therapy   |
| 97163 | Evaluation of physical therapy, typically 45 minutes                                     |
| 97161 | Evaluation of physical therapy, typically 20 minutes                                     |
| 97162 | Evaluation of physical therapy, typically 30 minutes                                     |
| 97168 | Re-evaluation of occupational therapy established plan of care, typically 30 minutes     |
| 97165 | Evaluation of occupational therapy, typically 30 minutes                                 |
| 97166 | Evaluation of occupational therapy, typically 45 minutes                                 |
| 97167 | Evaluation of occupational therapy established plan of care, typically 60 minutes        |
| G0151 | Hhcp-serv of pt,ea 15 min  |
|       | for suggested services   |

\*Default codes for suggested services

### **Diagnostics**

#### Service: Radiography

**General Guidelines** 

None.

#### **Medical Necessity Criteria**

#### Indications

- → Radiography is considered appropriate if ANY of the following is TRUE<sup>12</sup>:
  - The patient has ANY positive findings from the <u>clinical</u> <u>presentation</u> and <u>typical physical exam findings</u> lists.
  - The patient presents with ANY of the following "red flags":
    - Recent significant trauma or milder trauma in patients over 50 years old
    - Unexplained weight loss, fever, or night sweats
    - Immunosuppression
    - History of cancer, osteoporosis, or intravenous drug use
    - Prolonged use of corticosteroids
    - Age over 70 years.
    - Bowel or bladder dysfunction
    - Saddle anesthesia
    - Focal neurologic deficit with progressive, persistent (greater than 1 month), or disabling symptoms
    - Major motor weakness of lower extremities
    - Duration greater than 6 weeks
    - Clinically significant neurological deficit present

**Non-Indications** 

None.

Site of Service Criteria

None.

| HCPCS Code | Code Description/Definition                                 |
|------------|---|
| 72020      | X-ray of spine, anteroposterior view at lumbar level; X-ray |

|       | of spine, single view at lumbar level   |
|-------|---|
| 72074 | X-ray of thoracic spine, anteroposterior, lateral, oblique, and coned thoracolumbar junction views  |
| 72080 | X-ray of thoracolumbar spine, anteroposterior and lateral views; X-ray of thoracolumbar spine, minimum of 2 views   |
| 72081 | X-ray of entire thoracolumbar spine with skull, cervical<br>and sacral spine, single view; X-ray of entire<br>thoracolumbar spine, single view  |
| 72082 | X-ray of entire thoracolumbar spine with skull, cervical<br>and sacral spine, 2 views; X-ray of entire thoracolumbar<br>spine with skull, cervical and sacral spine, 3 views; X-ray of<br>entire thoracolumbar spine, 2 views; X-ray of entire<br>thoracolumbar spine, 3 views; |
| 72083 | X-ray of entire thoracolumbar spine with skull, cervical<br>and sacral spine, 4 views; X-ray of entire thoracolumbar<br>spine with skull, cervical and sacral spine, 5 views; X-ray of<br>entire thoracolumbar spine, 4 views; X-ray of entire<br>thoracolumbar spine, 5 views  |
| 72084 | X-ray of entire thoracolumbar spine with skull, cervical<br>and sacral spine, minimum of 6 views; X-ray of entire<br>thoracolumbar spine, minimum of 6 views  |
| 74470 | Radiological supervision and interpretation for translumbar renal cyst x-ray with contrast visualization  |

# Advanced Imaging

#### Service: Magnetic Resonance Imaging (MRI)

#### **General Guidelines**

- Units, Frequency, & Duration: None.
- Criteria for Subsequent Requests: None.
- Recommended Clinical Approach: None.
  - MRI without contrast is the preferred method of advanced imaging. Use MRI with contrast if MRI without contrast is indeterminate.
  - Electrodiagnostic testing may be used if imaging and clinical assessment are misaligned to determine the nonstructural etiology of nerve pathology or other comorbid conditions.
- Exclusions: None.

#### **Medical Necessity Criteria**

Indications

- → MRI is considered appropriate if ANY of the following are TRUE<sup>12</sup>:
  - The patient has **ALL** of the following:
    - The patient has **ANY** positive findings from the <u>clinical</u> <u>presentation</u> and <u>typical physical exam findings</u> lists.
    - The patient fails to show significant improvement in pain or disability level due to symptoms, despite receiving more than 6 weeks of conservative care (defined as a combination of either physical therapy or provider-directed home exercise program AND anti-inflammatory medication or oral steroids.)
    - The patient presents with **ANY** of the following red flags:
      - Progressive neurological deficits
      - Unsteady gait/balance or generalized lower extremity
         weakness
      - Hyperreflexia
      - Positive Babinski or clonus
      - Bowel or bladder incontinence
      - Saddle anesthesia

**Non-Indications** 

- → MRI is not considered appropriate if ANY of the following is TRUE<sup>13</sup>:
  - Non-compatible implanted devices

- Metallic intraocular foreign bodies
- ♦ Claustrophobia

#### <u>Site of Service Criteria</u>

None.

| HCPCS<br>Code | Code Description/Definition   |
|---------------|---|
| 72148         | MRI of lumbar spinal canal and contents; MRI of lumbar spinal canal and contents without contrast   |
| 72149         | MRI of lumbar spinal canal and contents with contrast   |
| 72158         | MRI of lumbar spinal canal and contents without contrast, followed by contrast and further sections |
| 72146         | MRI scan of middle spinal canal   |
| 72157         | MRI scan of middle spinal canal before and after contrast   |
| 72147         | MRI scan of middle spinal canal with contrast   |
| 72195         | MRI scan of pelvis  |
| 72196         | MRI scan of pelvis with contrast  |
| 72197         | MRI scan of pelvis before and after contrast  |

# Service: Computed Tomography (CT) or Computed Tomography Myelogram (CTM)

#### **General Guidelines**

- Units, Frequency, & Duration: None.
- Criteria for Subsequent Requests: None.
- **Recommended Clinical Approach:** Advanced imaging may not be required at the initial presentation in the absence of red flag signs/symptoms. CTM is suggested if MRI findings and physical examination findings are discordant; CTM may be utilized if MRI is contraindicated or indeterminate. CT may be utilized in this patient population if MRI is contraindicated or indeterminate.
- Exclusions: None.

#### Medical Necessity Criteria

Indications

- $\rightarrow$  CT/CTM is considered appropriate if ANY of the following are TRUE<sup>12</sup>:
  - The patient is being considered for a CTM and ALL of the following are TRUE:
    - The patient has **ANY** positive findings from the <u>clinical</u> <u>presentation</u> and <u>typical physical exam findings</u> lists.
    - The patient has failed to show significant improvement in pain or disability level due to symptoms, despite more than 6 weeks of conservative care (conservative care includes a combination of physical therapy, provider-directed home exercise program, and anti-inflammatory/pain management medications or oral steroids).
    - MRI is contraindicated or indeterminate for reasons such as an artifact from a previous surgery (e.g., anomalies in visual representation that impact imaging quality).
  - The patient is being considered for a CTM and presents with ANY of the following red flags:
    - Progressive neurological deficits.
    - Unsteady gait/balance or generalized lower extremity weakness.
    - Hyperreflexia.
    - Positive Babinski or clonus.
    - Bowel or bladder incontinence.
    - Saddle anesthesia.
  - The patient is being considered for a CT and ANY of the following is TRUE:

- The patient meets the criteria for MRI or CTM but cannot receive either service due to contraindications.
- MRI or CTM studies are indeterminate.
- There is a need to obtain additional information that is not provided by an MRI (e.g., details of the bony anatomy or previous surgery).

#### **Non-Indications**

- → CT/CTM may not be considered appropriate if ANY of the following are TRUE:
  - If the patient is being considered for a CTM and ANY of the following is TRUE<sup>12,14-15</sup>:
    - In patients with bleeding disorders.
    - In patients with an allergy to iodinated contrast agents.
    - In patients who are pregnant.
  - If the patient is being considered for a CT and ANY of the following is TRUE:
    - The patient is pregnant.

#### Site of Service Criteria

None.

| HCPCS Code | Code Description/Definition  |
|------------|--|
| 72131      | CT of lumbar spine, CT of lumbar spine without contrast                        |
| 72132      | CT of lumbar spine with contrast   |
| 72133      | CT of lumbar spine without contrast, followed by contrast and further sections |
| 72128      | CT scan of middle spine  |
| 72129      | CT scan of middle spine with contrast  |
| 72130      | CT scan of middle spine before and after contrast                              |
| 72192      | CT scan pelvis   |
| 72193      | CT scan pelvis with contrast   |
| 72194      | CT scan of pelvis before and after contrast                                    |

# Non-Surgical Management

#### Service: Epidural Steroid Injections

#### **General Guidelines**

- Units, Frequency, & Duration: When the medical necessity criteria are met, a total of 3 epidural steroid injections per episode of pain per region may be performed in 6 months.
- **Criteria for Subsequent Requests:** A second injection may be considered if the patient has had one epidural steroid injection within the last six months. If the patient has had two or more epidural steroid injections in the past six months and the previous injection resulted in a 50% improvement of symptoms for three months, another injection may be considered.<sup>7,16-29</sup>
- **Recommended Clinical Approach:** Perform epidural steroid injections with radiographic image guidance. One interlaminar injection is recommended at a time. Up to two transforaminal injections may be appropriate at a time bilaterally (at the same nerve level) or unilaterally at adjacent levels.
- Exclusions: None.

#### **Medical Necessity Criteria**

#### Indications

- → Epidural steroid injections (ESI) are considered appropriate if ALL of the following are TRUE<sup>2</sup>:
  - The patient has ANY positive findings from the <u>clinical</u> <u>presentation</u> and <u>typical physical exam findings</u> lists.
  - Advanced imaging corresponds to clinical presentation and shows nerve impingement.
  - The patient fails to show significant improvement in pain or disability level due to symptoms, despite receiving conservative care for more than 6 weeks, or the patient cannot complete conservative care due to the severity of symptoms. Conservative care is a combination of either physical therapy or provider-directed home exercise program AND medications, anti-inflammatories, or oral steroids.
  - The patient is outside the acute period (greater than 4 weeks).
  - The patient has had fewer than 3 epidural steroid injections per region within the past 6 months with at least 3 weeks in between injections, at which time the patient had 50% improvement of symptoms.

**Non-Indications** 

- → Epidural steroid injections may not be indicated if ANY of the following is TRUE<sup>3</sup>:
  - Hypersensitivity (or allergy) to steroids
  - ◆ Local or systemic infection
  - Coagulopathy or recent use of blood thinning agents
  - Uncontrolled diabetes
  - The patient has **ANY** neurologic signs or symptoms:
    - Progressive neurological deficits
    - Unsteady gait/balance or generalized lower extremity weakness
    - Hyperreflexia
    - Positive Babinski or clonus
    - Bowel or bladder incontinence
    - Saddle anesthesia

#### Site of Service Criteria

Outpatient

| HCPCS Code | Code Description/Definition   |
|------------|---|
| 62322      | Injection of substance into lumbar spinal canal;<br>Insertion of catheter and injection of substance into<br>lumbar interlaminar epidural space;  |
| 62323      | Injection of substance into lumbar spinal canal using<br>imaging guidance; Insertion of catheter and injection of<br>substance into lumbar interlaminar epidural space using<br>imaging guidance;<br>Insertion of catheter and injection of substance into<br>lumbar interlaminar subarachnoid space using imaging<br>guidance; Insertion of needle and injection of substance<br>into lumbar interlaminar epidural space using imaging<br>guidance; Insertion of needle and injection of substance<br>into lumbar interlaminar subarachnoid space using imaging<br>guidance; Insertion of needle and injection of substance<br>into lumbar interlaminar subarachnoid space using<br>imaging guidance |
| 64483      | Transforaminal injection of anesthetic agent and steroid<br>into epidural space of lumbar spine using CT guidance;<br>Transforaminal injection of anesthetic agent and steroid<br>into epidural space of lumbar spine using fluoroscopic  |

|       | guidance; Transforaminal injection of anesthetic agent<br>and steroid into epidural space of lumbar spine using<br>imaging guidance; Transforaminal injection of anesthetic<br>agent into epidural space of lumbar spine using CT<br>guidance; Transforaminal injection of anesthetic agent<br>into epidural space of lumbar spine using fluoroscopic   |
|-------|---|
|       | guidance; Transforaminal injection of anesthetic agent<br>into epidural space of lumbar spine using imaging<br>guidance; Transforaminal injection of steroid into epidural<br>space of lumbar spine using CT guidance; Transforaminal<br>injection of steroid into epidural space of lumbar spine<br>using fluoroscopic guidance; Transforaminal injection of<br>steroid into epidural space of lumbar spine using imaging<br>guidance  |
| 64484 | Transforaminal injection of anesthetic agent and steroid<br>into epidural space of lumbar spine using CT guidance;<br>Transforaminal injection of anesthetic agent and steroid<br>into epidural space of lumbar spine using fluoroscopic<br>guidance; Transforaminal injection of anesthetic agent<br>and steroid into epidural space of lumbar spine using<br>imaging guidance; Transforaminal injection of anesthetic<br>agent into epidural space of lumbar spine using CT<br>guidance; Transforaminal injection of anesthetic agent<br>into epidural space of lumbar spine using CT<br>guidance; Transforaminal injection of anesthetic agent<br>into epidural space of lumbar spine using fluoroscopic<br>guidance; Transforaminal injection of anesthetic agent<br>into epidural space of lumbar spine using imaging<br>guidance; Transforaminal injection of steroid into epidural<br>space of lumbar spine using CT guidance; Transforaminal<br>injection of steroid into epidural space of lumbar spine<br>using fluoroscopic guidance; Transforaminal<br>injection of steroid into epidural space of lumbar spine<br>using fluoroscopic guidance; Transforaminal injection of<br>steroid into epidural space of lumbar spine<br>using fluoroscopic guidance; Transforaminal injection of<br>steroid into epidural space of lumbar spine using imaging<br>guidance |
| 0230T | Injection(s), anesthetic agent and/or steroid,<br>transforaminal epidural, with ultrasound guidance, lumbar<br>or sacral; single level  |
| 023IT | Injections of anesthetic agent and/or steroid into lower or sacral spinal canal using ultrasound guidance   |
| 64999 | Nervous system procedure  |
| 76000 | Imaging guidance for procedure, up to 1 hour  |

### **Surgical Management**

#### Service: Lumbar Discectomy

#### **General Guidelines**

- Units, Frequency, & Duration: When medical necessity criteria is met, it is appropriate to proceed with surgical management.
- **Criteria for Subsequent Requests:** The medical necessity of subsequent surgeries within 3 months should be evaluated individually and be based on the response of the individual.
- **Recommended Clinical Approach:** Either open or endoscopic discectomy are appropriate treatments for radiculopathy due to lumbar disc herniation when it is refractory to conservative and non-surgical treatment.<sup>2</sup>
- Exclusions: None.

#### **Medical Necessity Criteria**

#### Indications

- → Discectomy is considered appropriate if ANY of the following is TRUE<sup>2</sup>:
  - The patient has signs or symptoms of cauda equina syndrome or myelopathy and has ALL of the following:
    - Magnetic resonance imaging (MRI) reveals compressive pathology.
    - **ANY** of the following symptoms:
      - Bowel, bladder, and erectile dysfunction
      - Diffuse motor weakness
      - Saddle-distribution anesthesia
  - The patient has ANY positive findings from the <u>clinical</u> <u>presentation</u> and <u>typical physical exam findings</u> lists and ALL of the following:
    - MRI reveals disc herniation compressing a nerve that is consistent with the clinical presentation.
    - ANY of the following is **TRUE**:
      - The patient fails to show significant improvement in pain or disability level due to symptoms, despite receiving non-surgical management interventions for more than 6 weeks. Non-surgical management includes a combination of physical therapy, provider-directed home exercise program, facet injections/medial branch blocks (MBBB), epidural

steroid injections (ESI), and anti-inflammatory medications, pain management, or oral steroids.

- The patient's severe pain or disability is affecting their quality of life and limiting their daily life (including working and ability to provide self care).
- The patient has progressive neurological motor deficits.

**Non-Indications** 

- → **Discectomy** is considered appropriate if **ANY** of the following is **TRUE**:
  - The pain does not originate from the contained herniated discs.

<u>Site of Service Criteria</u>

Outpatient

| HCPCS Code | Code Description/Definition  |
|------------|--|
| 63030      | Hemilaminectomy and foraminotomy of lumbar spine<br>with decompression of nerve root; Hemilaminectomy and<br>foraminotomy of lumbar spine with excision of herniated<br>intervertebral disc and decompression of nerve root;<br>Hemilaminectomy and partial facetectomy of lumbar<br>spine with decompression of nerve root;<br>Hemilaminectomy and partial facetectomy of lumbar<br>spine with excision of herniated intervertebral disc and<br>decompression of nerve root; Hemilaminectomy of<br>lumbar spine with decompression of nerve root;<br>Hemilaminectomy of lumbar spine with excision of<br>nerve root; Hemilaminectomy of lumbar spine with decompression of nerve root;<br>Hemilaminectomy, partial facetectomy, and<br>foraminotomy of lumbar spine with decompression of<br>nerve root; Hemilaminectomy, partial facetectomy, and<br>foraminotomy of lumbar spine with excision of<br>nerve root; Hemilaminectomy, partial facetectomy, and<br>foraminotomy of lumbar spine with excision of herniated<br>intervertebral disc and decompression of nerve |
| 63035      | Hemilaminectomy and foraminotomy of lumbar spine<br>with decompression of nerve root; Hemilaminectomy and<br>foraminotomy of lumbar spine with excision of herniated<br>intervertebral disc and decompression of nerve root;<br>Hemilaminectomy and partial facetectomy of lumbar<br>spine with decompression of nerve root;<br>Hemilaminectomy and partial facetectomy of lumbar<br>spine with excision of herniated intervertebral disc and  |

|       | decompression of nerve root; Hemilaminectomy of<br>lumbar spine with decompression of nerve root;<br>Hemilaminectomy of lumbar spine with excision of<br>herniated intervertebral disc and decompression of nerve<br>root; Hemilaminectomy, partial facetectomy, and<br>foraminotomy of lumbar spine with decompression of<br>nerve root; Hemilaminectomy, partial facetectomy, and  |
|-------|--|
|       | foraminotomy of lumbar spine with excision of herniated<br>intervertebral disc and decompression of nerve root   |
| 63042 | Hemilaminectomy and foraminotomy of lumbar spine<br>with decompression of nerve root; Hemilaminectomy and<br>foraminotomy of lumbar spine with excision of herniated<br>intervertebral disc and decompression of nerve root;<br>Hemilaminectomy and partial facetectomy of lumbar<br>spine with decompression of nerve root;<br>Hemilaminectomy and partial facetectomy of lumbar<br>spine with excision of herniated intervertebral disc and<br>decompression of nerve root; Hemilaminectomy of<br>lumbar spine with decompression of nerve root;<br>Hemilaminectomy of lumbar spine with excision of<br>herniated intervertebral disc and decompression of nerve<br>root; Hemilaminectomy of lumbar spine with partial<br>facetectomy, foraminotomy, and decompression of nerve<br>root; Hemilaminectomy, partial facetectomy, and<br>foraminotomy of lumbar spine with excision of herniated<br>intervertebral disc and decompression of nerve<br>root; Hemilaminectomy, partial facetectomy, and<br>foraminotomy of lumbar spine with excision of herniated<br>intervertebral disc and decompression of nerve root;<br>Hemilaminectomy and foraminotomy of single interspace<br>of lumbar spine with decompression of nerve root;<br>Hemilaminectomy and foraminotomy of single interspace<br>of lumbar spine with excision of herniated intervertebral<br>disc and decompression of nerve root;<br>Hemilaminectomy and partial facetectomy of single<br>interspace of lumbar spine with excision of herniated<br>intervertebral disc and decompression of nerve root;<br>Hemilaminectomy and partial facetectomy of single<br>interspace of lumbar spine with excision of herniated<br>intervertebral disc and decompression of nerve root;<br>Hemilaminectomy of single interspace of lumbar<br>spine with decompression of nerve root; Hemilaminectomy of<br>single interspace of lumbar spine with excision of<br>herniated intervertebral disc and decompression of nerve<br>root; Hemilaminectomy of single interspace of lumbar<br>spine with partial facetectomy, foraminotomy, and<br>decompression of nerve root; Hemilaminectomy, partial |

| facetectomy, and foraminotomy of single interspace of<br>lumbar spine with excision of herniated intervertebral disc<br>and decompression of nerve root63044Hemilaminectomy and foraminotomy of lumbar spine<br>with excision of herve root, Hemilaminectomy and<br>partial facetectomy of lumbar spine with decompression<br>of nerve root; Hemilaminectomy and partial facetectomy<br>of lumbar spine with excision of herve root; Hemilaminectomy of<br>lumbar spine with excision of nerve root; Hemilaminectomy of lumbar spine with excision of<br>herniated intervertebral disc and decompression of nerve<br>root; Hemilaminectomy of lumbar spine with excision of nerve<br>root; Hemilaminectomy and foraminotomy, and decompression of nerve<br>root; Hemilaminectomy and foraminotomy of additional<br>intervertebral disc and decompression of nerve root;<br>Hemilaminectomy and partial facetectomy of<br>additional<br>intervertebral disc and decompression of nerve<br>root; Hemilaminectomy and partial facetectomy of<br>additional<br>interspace of lumbar spine with excision of herve<br>root; Hemilaminectomy and partial facetectomy of<br>additional<br>interspace of lumbar spine with decompression of nerve<br>root; Hemilaminectomy of additional interspace of lumbar spine with excision of<br>herviated intervertebral disc and decompression of nerve<br>root; Hemilaminectomy of additional interspace of lumbar spine with decompression of nerve<br>root; Hemilaminectomy of additional interspace of lumbar spine with decompression of nerve<br>root; Hemilaminectomy of additional interspace of lumbar<br>spine with decompression of nerve root;<br>Hemilaminectomy of additional interspace of lumbar<br>spine with decompression of nerve root;<br>Hemilaminectomy of additional interspace of lumbar<                          |       |   |
|---|-------|---|
| with excision of herniated intervertebral disc and<br>decompression of nerve root; Hemilaminectomy and<br>partial facetectomy of lumbar spine with decompression of<br>nerve root; Hemilaminectomy and partial facetectomy<br>of lumbar spine with excision of herniated intervertebral<br>disc and decompression of nerve root; Hemilaminectomy of<br>lumbar spine with decompression of nerve root;<br>Hemilaminectomy of lumbar spine with decompression of nerve<br>root; Hemilaminectomy of lumbar spine with excision of<br>herniated intervertebral disc and decompression of nerve<br>root; Hemilaminectomy, partial facetectomy, and<br>facetectomy, foraminotomy, and decompression of nerve<br>root; Hemilaminectomy and foraminotomy of lumbar spine with excision of herniated<br>intervertebral disc and decompression of nerve root;<br>Hemilaminectomy and foraminotomy of additional<br>interspace of lumbar spine with excision of herniated<br>intervertebral disc and decompression of nerve root;<br>Hemilaminectomy and partial facetectomy of<br>additional interspace of lumbar spine with decompression of nerve<br>root; Hemilaminectomy and partial facetectomy of<br>additional interspace of lumbar spine with decompression of nerve<br>root; Hemilaminectomy and partial facetectomy of<br>additional interspace of lumbar spine with excision of<br>herniated intervertebral disc and decompression of nerve<br>root; Hemilaminectomy of additional interspace of lumbar<br>spine with decompression of nerve root;<br>Hemilaminectomy of additional interspace of lumbar<br>spine with decompression of nerve<br>root; Hemilaminectomy, and decompressi |       | lumbar spine with excision of herniated intervertebral disc   |
| Endoscopic decompression of lumbar spinal cord;<br>Endoscopic decompression of lumbar spinal cord and<br>nerve root   | 63044 | with excision of herniated intervertebral disc and<br>decompression of nerve root; Hemilaminectomy and<br>partial facetectomy of lumbar spine with decompression<br>of nerve root; Hemilaminectomy and partial facetectomy<br>of lumbar spine with excision of herniated intervertebral<br>disc and decompression of nerve root; Hemilaminectomy<br>of lumbar spine with decompression of nerve root;<br>Hemilaminectomy of lumbar spine with excision of<br>herniated intervertebral disc and decompression of nerve<br>root; Hemilaminectomy of lumbar spine with partial<br>facetectomy, foraminotomy, and decompression of nerve<br>root; Hemilaminectomy, partial facetectomy, and<br>foraminotomy of lumbar spine with excision of herniated<br>intervertebral disc and decompression of nerve<br>root; Hemilaminectomy and foraminotomy of additional<br>interspace of lumbar spine with excision of herniated<br>intervertebral disc and decompression of nerve root;<br>Hemilaminectomy and foraminotomy of additional<br>interspace of lumbar spine with excision of nerve root;<br>Hemilaminectomy and partial facetectomy of<br>additional interspace of lumbar spine with decompression of nerve<br>root; Hemilaminectomy and partial facetectomy of<br>additional interspace of lumbar spine with excision of<br>herniated intervertebral disc and decompression of nerve<br>root; Hemilaminectomy of additional interspace of lumbar<br>spine with decompression of nerve root;<br>Hemilaminectomy of additional interspace of lumbar<br>spine with decompression of nerve root;<br>Hemilaminectomy of additional interspace of lumbar<br>spine with excision of herniated intervertebral disc and<br>decompression of nerve root; Hemilaminectomy of<br>additional interspace of lumbar spine with partial<br>facetectomy, foraminotomy, and decompression of nerve<br>root; Hemilaminectomy, partial facetectomy, and<br>foraminotomy of additional interspace of lumbar spine<br>with excision of herniated intervertebral disc and |
| C9757 Laminotomy (hemilaminectomy), with decompression of   | 62380 | Endoscopic decompression of lumbar spinal cord;<br>Endoscopic decompression of lumbar spinal cord and   |
|   | C9757 | Laminotomy (hemilaminectomy), with decompression of   |

| annular defect with implantation of bone anchored<br>annular closure device, including annular defect<br>measurement, alignment and sizing assessment, and<br>image guidance; 1 interspace, lumbar |  | annular closure device, including annular defect<br>measurement, alignment and sizing assessment, and |
|--|--|---|
|--|--|---|

#### Service: Lumbar Decompression Without Fusion

#### **General Guidelines**

- Units, Frequency, & Duration: None.
- Criteria for Subsequent Requests: None.
- **Recommended Clinical Approach:** Surgical decompression is appropriate for patients with moderate to severe symptoms that continue or progress despite nonsurgical treatment or without evidence of instability.<sup>30</sup>
- Exclusions: None.

#### **Medical Necessity Criteria**

Indications

- → Lumbar decompression without fusion is considered appropriate if ANY of the following is TRUE<sup>30</sup>:
  - The patient has signs or symptoms of cauda equina syndrome or myelopathy and ALL of the following:
    - Magnetic resonance imaging (MRI) reveals compressive pathology.
    - ANY of the following symptoms of nerve compression:
      - Bowel, bladder, and erectile dysfunction
      - Diffuse motor weakness
      - Saddle-distribution anesthesia
  - The patient has **ALL** of the following:
    - The patient has **ANY** positive findings from the <u>clinical</u> <u>presentation</u> and <u>typical physical exam findings</u> lists.
    - MRI reveals compressive pathology.
    - **ANY** of the following:
      - The patient fails to show significant improvement in pain or disability level due to symptoms, despite receiving non-surgical management interventions for more than 6 weeks. Non-surgical management includes a combination of physical therapy, provider-directed home exercise program, facet injections/medial branch blocks (MBBB), epidural steroid injections (ESI), and anti-inflammatory medications, pain management, or oral steroids.
      - The patient's severe pain or disability is affecting their quality of life and limiting their daily life (including working and ability to provide self care).

• The patient has progressive neurological motor deficits.

Non-Indications None.

### Site of Service Criteria

### Inpatient or outpatient

| HCPCS Code | Code Description/Definition   |
|------------|---|
| 63012      | Laminectomy of lumbar spine with removal of abnormal<br>facet and decompression of cauda equina and nerve<br>root; Laminectomy of lumbar spine with removal of<br>abnormal facet and pars inter-articularis and<br>decompression of cauda equina and nerve root;<br>Laminectomy of lumbar spine with removal of abnormal<br>pars inter-articularis and decompression of cauda equina<br>and nerve root  |
| 63017      | Laminectomy of lumbar spine with decompression of<br>cauda equina; Laminectomy of lumbar spine with<br>decompression of spinal cord; Laminectomy of lumbar<br>spine with decompression of spinal cord and cauda<br>equina; Laminectomy of lumbar spine with exploration of<br>cauda equina; Laminectomy of lumbar spine with<br>exploration of spinal cord; Laminectomy of lumbar spine<br>with exploration of spinal cord and cauda equina   |
| 63047      | Unilateral laminectomy, facetectomy, and foraminotomy<br>of lumbar spine with decompression of nerve root;<br>Unilateral laminectomy, facetectomy, and foraminotomy<br>of lumbar spine with decompression of spinal cord;<br>Unilateral laminectomy, facetectomy, and foraminotomy<br>of lumbar spine with decompression of spinal cord and<br>nerve root; Unilateral laminectomy, facetectomy, and<br>foraminotomy of lumbar spine with decompression of<br>cauda equina; Unilateral laminectomy, facetectomy, and<br>foraminotomy of single vertebra of lumbar spine with<br>decompression of cauda equina; Unilateral laminectomy,<br>facetectomy, and foraminotomy of single vertebra of<br>lumbar spine with decompression of cauda equina and<br>nerve root; Unilateral laminectomy, facetectomy, and |

|       | foraminotomy of single vertebra of lumbar spine with<br>decompression of nerve root; Unilateral laminectomy,<br>facetectomy, and foraminotomy of single vertebra of<br>lumbar spine with decompression of spinal cord;<br>Unilateral laminectomy, facetectomy, and foraminotomy<br>of single vertebra of lumbar spine with decompression of<br>spinal cord and nerve root  |
|-------|--|
| 63048 | Unilateral laminectomy, facetectomy, and foraminotomy<br>of lumbar spine with decompression of nerve root;<br>Unilateral laminectomy, facetectomy, and foraminotomy<br>of lumbar spine with decompression of spinal cord;<br>Unilateral laminectomy, facetectomy, and foraminotomy<br>of lumbar spine with decompression of spinal cord and<br>nerve root; Unilateral laminectomy, facetectomy, and<br>foraminotomy of additional vertebra of lumbar spine with<br>decompression of nerve root; Unilateral laminectomy,<br>facetectomy, and foraminotomy of additional vertebra of<br>lumbar spine with decompression of spinal cord;<br>Unilateral laminectomy, facetectomy, and foraminotomy<br>of additional vertebra of spinal cord;<br>Unilateral laminectomy, facetectomy, and foraminotomy<br>of additional vertebra of lumbar spine with<br>decompression of spinal cord spinal cord;  |
| 63057 | Decompression of lumbar cauda equina and nerve root<br>by transpedicular approach; Decompression of lumbar<br>cauda equina by transpedicular approach;<br>Decompression of lumbar nerve root by transpedicular<br>approach; Decompression of lumbar spinal cord and<br>nerve root by transpedicular approach; Decompression of<br>lumbar spinal cord by transpedicular approach;<br>Decompression of lumbar spinal cord, cauda equina, and<br>nerve root by transpedicular approach; Decompression of<br>lumbar cauda equina and nerve root in additional<br>vertebra by transpedicular approach; Decompression of<br>lumbar cauda equina in additional vertebra by<br>transpedicular approach; Decompression of<br>lumbar cauda equina in additional vertebra by<br>transpedicular approach; Decompression of<br>lumbar nerve<br>root in additional vertebra by transpedicular approach;<br>Decompression of lumbar spinal cord and nerve root in<br>additional vertebra by transpedicular approach;<br>Decompression of lumbar spinal cord in additional<br>vertebra by transpedicular approach; |
| 63056 | Decompression of lumbar cauda equina and nerve root<br>by lateral extraforaminal approach; Decompression of<br>lumbar cauda equina and nerve root by transfacet  |

|       | approach; Decompression of lumbar cauda equina and<br>nerve root in single vertebra by lateral extraforaminal<br>approach; Decompression of lumbar cauda equina and<br>nerve root in single vertebra by transfacet approach;<br>Decompression of lumbar cauda equina by lateral<br>extraforaminal approach; Decompression of lumbar<br>cauda equina by transfacet approach; Decompression of<br>lumbar cauda equina in single vertebra by lateral<br>extraforaminal approach; Decompression of lumbar<br>cauda equina in single vertebra by lateral<br>extraforaminal approach; Decompression of lumbar<br>cauda equina in single vertebra by transfacet approach;<br>Decompression of lumbar nerve root by lateral<br>extraforaminal approach; Decompression of lumbar nerve<br>root by transfacet approach; Decompression of lumbar<br>nerve root in single vertebra by lateral extraforaminal<br>approach; Decompression of lumbar nerve<br>root by transfacet approach; Decompression of lumbar<br>nerve root in single vertebra by lateral extraforaminal<br>approach; Decompression of lumbar nerve root in single<br>vertebra by transfacet approach; Decompression of<br>lumbar spinal cord and cauda equina by lateral<br>extraforaminal approach; Decompression of<br>lumbar spinal cord and nerve root by<br>lateral extraforaminal approach; Decompression of<br>lumbar spinal cord and nerve root by transfacet<br>approach; Decompression of lumbar spinal cord by<br>lateral extraforaminal approach; Decompression of<br>lumbar spinal cord by transfacet approach;<br>Decompression of lumbar spinal cord by<br>lateral extraforaminal approach; Decompression of<br>lumbar spinal cord by transfacet approach;<br>Decompression of lumbar spinal cord in single vertebra by<br>lateral extraforaminal approach; Decompression of<br>lumbar spinal cord in single vertebra by transfacet<br>approach; Decompression of lumbar spinal cord, cauda<br>equina, and nerve root by transfacet approach |
|-------|--|
| 62380 | Endoscopic decompression of lumbar nerve root;<br>Endoscopic decompression of lumbar spinal cord;<br>Endoscopic decompression of lumbar spinal cord and<br>nerve root  |
| 63005 | Laminectomy lumbar with exploration and/or<br>decompression of spinal cord and/or cauda equina,<br>without facetectomy, foraminotomy or discectomy (eg,<br>spinal stenosis), 1 or 2 vertebral segments   |
| 63011 | Laminectomy sacral with exploration and/or<br>decompression of spinal cord and/or cauda equina,<br>without facetectomy, foraminotomy or discectomy (eg,<br>spinal stenosis), 1 or 2 vertebral segments   |

|       | Decompression procedure, percutaneous, of nucleus pulposus of intervertebral disc, using radiofrequency |
|-------|---|
| S2348 | energy, single or multiple levels, lumbar   |
| 64708 | Release of nerve of arm or leg, open procedure  |
| 64714 | Release of nerve of upper leg, open procedure   |

#### Service: Single-Level Lumbar Fusion (with or without Decompression)

<u>General Guidelines</u>

- Units, Frequency, & Duration: None.
- Criteria for Subsequent Requests: None.
- **Recommended Clinical Approach:** Lumbar fusion for central canal or neural foraminal stenosis is appropriate for patients with moderate to severe symptoms that continue or progress despite nonsurgical treatment with evidence of (or creation of) an unstable spine.<sup>30</sup>
- Exclusions: None.

#### **Medical Necessity Criteria**

Indications

- → Lumbar fusion with/without decompression is considered appropriate if there is radiographic evidence of instability or iatrogenic instability caused by the decompression and ANY of the following is TRUE<sup>30</sup>:
  - The patient has signs or symptoms of cauda equina syndrome or myelopathy and ALL of the following:
    - Magnetic resonance imaging (MRI) reveals compressive pathology.
    - **ANY** of the following symptoms:
      - Bowel, bladder, and erectile dysfunction
      - Diffuse motor weakness
      - Saddle-distribution anesthesia
  - The patient has **ALL** of the following:
    - The patient has **ANY** positive findings from the <u>clinical</u> <u>presentation</u> and <u>typical physical exam findings</u> lists.
    - MRI reveals compressive pathology.
    - One of the following:
      - The patient fails to show significant improvement in pain or disability level due to symptoms, despite receiving non-surgical management for more than 6 weeks.
      - The patient has severe pain or disability affecting their quality of life and limiting their daily life (including working and unable to provide self care).
      - The patient has progressive neurological motor deficits.

Non-Indications None.

#### Site of Service Criteria

Performed as inpatient or outpatient

## Procedure Codes (HCPCS/CPT)

Decompression without fusion codes: 63012,63017,63030,63035,63042,63044, 63047, 63048, 63056, 63057, 63080

The following codes are add-on CPT codes for fusion, or may be submitted as primary codes without decompression codes:

| HCPCS Code | Code Description/Definition   |
|------------|---|
| 22533      | Arthrodesis of lumbar vertebra with minimal discectomy;<br>Arthrodesis of lumbar vertebra by lateral extracavitary<br>technique with minimal discectomy   |
| 22558      | Arthrodesis by anterior interbody technique of lumbar<br>region with discectomy; Arthrodesis by anterior interbody<br>technique of lumbar region, with minimal discectomy   |
| 22612      | Arthrodesis of lumbar vertebral segment by posterior and<br>lateral transverse technique; Arthrodesis of lumbar<br>vertebral segment by posterior technique; Arthrodesis of<br>lumbar vertebral segment by posterolateral and lateral<br>transverse technique; Arthrodesis of lumbar vertebral<br>segment by posterolateral technique   |
| 22630      | Arthrodesis of lumbar vertebral segment by posterior<br>interbody technique with discectomy; Arthrodesis of<br>lumbar vertebral segment by posterior interbody<br>technique with laminectomy; Arthrodesis of lumbar<br>vertebral segment by posterior interbody technique with<br>laminectomy and discectomy; Arthrodesis of single<br>lumbar vertebral interspace by posterior interbody<br>technique with discectomy; Arthrodesis of single lumbar<br>vertebral interspace by posterior interbody<br>technique with discectomy; Arthrodesis of single lumbar<br>vertebral interspace by posterior interbody technique with<br>laminectomy; Arthrodesis of single lumbar vertebral<br>interspace by posterior interbody technique with<br>laminectomy and discectomy |
| 22633      | Arthrodesis of single lumbar vertebral interspace by<br>combined posterior technique and posterior interbody<br>technique, with discectomy; Arthrodesis of single lumbar<br>vertebral interspace by combined posterior technique  |

|       | and posterior interbody technique, with laminectomy;<br>Arthrodesis of single lumbar vertebral interspace by<br>combined posterior technique and posterior interbody<br>technique, with laminectomy and discectomy; Arthrodesis<br>of single lumbar vertebral interspace by combined<br>posterolateral technique and posterior interbody<br>technique, with discectomy; Arthrodesis of single lumbar<br>vertebral interspace by combined posterolateral<br>technique and posterior interbody technique, with<br>laminectomy; Arthrodesis of single lumbar vertebral<br>interspace by combined posterolateral technique and<br>posterior interbody technique, with<br>laminectomy; Arthrodesis of single lumbar vertebral<br>interspace by combined posterolateral technique and<br>posterior interbody technique, with laminectomy and<br>discectomy; Arthrodesis of single lumbar vertebral<br>segment by combined posterior technique and posterior<br>interbody technique, with laminectomy; Arthrodesis of<br>single lumbar vertebral segment by combined posterior<br>technique and posterior interbody technique, with<br>laminectomy and discectomy; Arthrodesis of single<br>lumbar vertebral segment by combined posterior<br>technique and posterior interbody technique, with<br>laminectomy and discectomy; Arthrodesis of single<br>lumbar vertebral segment by combined posterolateral<br>technique and posterior interbody technique, with<br>discectomy |
|-------|---|
| 22840 | Posterior non segmental instrumentation   |
| 22845 | Anterior Instrumentation 2-3 vertebral segments   |
| 22853 | Insertion of biomechanical interbody device with arthrodesis  |
| 22854 | Insertion of biomechanical device with corpectomy defect w/ arthrodesis   |
| 63012 | Laminectomy of lumbar spine with removal of abnormal<br>facet and decompression of cauda equina and nerve<br>root; Laminectomy of lumbar spine with removal of<br>abnormal facet and pars inter-articularis and<br>decompression of cauda equina and nerve root;<br>Laminectomy of lumbar spine with removal of abnormal<br>pars inter-articularis and decompression of cauda equina<br>and nerve root  |
| 63017 | Laminectomy of lumbar spine with decompression of<br>cauda equina; Laminectomy of lumbar spine with<br>decompression of spinal cord; Laminectomy of lumbar<br>spine with decompression of spinal cord and cauda<br>equina; Laminectomy of lumbar spine with exploration of<br>cauda equina; Laminectomy of lumbar spine with  |

|        | exploration of spinal cord; Laminectomy of lumbar spine   |
|--------|---|
| 63047  | with exploration of spinal cord and cauda equina<br>Unilateral laminectomy, facetectomy, and foraminotomy<br>of lumbar spine with decompression of nerve root;<br>Unilateral laminectomy, facetectomy, and foraminotomy   |
|        | of lumbar spine with decompression of spinal cord;<br>Unilateral laminectomy, facetectomy, and foraminotomy<br>of lumbar spine with decompression of spinal cord and<br>nerve root; Unilateral laminectomy, facetectomy, and<br>foraminotomy of lumbar spine with decompression of<br>cauda equina; Unilateral laminectomy, facetectomy, and<br>foraminotomy of single vertebra of lumbar spine with<br>decompression of cauda equina; Unilateral laminectomy,<br>facetectomy, and foraminotomy of single vertebra of<br>lumbar spine with decompression of cauda equina and<br>nerve root; Unilateral laminectomy, facetectomy, and<br>foraminotomy of single vertebra of lumbar spine with<br>decompression of nerve root; Unilateral laminectomy,<br>facetectomy, and foraminotomy of single vertebra of<br>lumbar spine with decompression of spinal cord;<br>Unilateral laminectomy, facetectomy, and foraminotomy<br>of single vertebra of lumbar spine with<br>decompression of nerve root; Unilateral laminectomy,<br>facetectomy, and foraminotomy of single vertebra of<br>lumbar spine with decompression of spinal cord;<br>Unilateral laminectomy, facetectomy, and foraminotomy<br>of single vertebra of lumbar spine with decompression of<br>spinal cord and nerve root |
| 63048  | Unilateral laminectomy, facetectomy, and foraminotomy<br>of lumbar spine with decompression of nerve root;<br>Unilateral laminectomy, facetectomy, and foraminotomy<br>of lumbar spine with decompression of spinal cord;<br>Unilateral laminectomy, facetectomy, and foraminotomy<br>of lumbar spine with decompression of spinal cord and<br>nerve root; Unilateral laminectomy, facetectomy, and<br>foraminotomy of additional vertebra of lumbar spine with<br>decompression of nerve root; Unilateral laminectomy,<br>facetectomy, and foraminotomy of additional vertebra of<br>lumbar spine with decompression of spinal cord;<br>Unilateral laminectomy, facetectomy, and foraminotomy<br>of additional vertebra of lumbar spine with<br>decompression of spinal cord;<br>Unilateral laminectomy, facetectomy, and foraminotomy<br>of additional vertebra of lumbar spine with<br>decompression of spinal cord and nerve root   |
| +63052 | Laminectomy, facetectomy, or foraminotomy (unilateral<br>or bilateral with decompression of spinal cord, cauda<br>equina and/or nerve root[s] [eg, spinal or lateral recess<br>stenosis]), during posterior interbody arthrodesis, lumbar;<br>single vertebral segment (List separately in addition to  |

|        | code for primary procedure)   |
|--------|---|
| +63053 | Laminectomy, facetectomy, or foraminotomy (unilateral<br>or bilateral with decompression of spinal cord, cauda<br>equina and/or nerve root[s] [eg, spinal or lateral recess<br>stenosis]), during posterior interbody arthrodesis, lumbar;<br>each additional vertebral segment (List separately in<br>addition to code for primary procedure)  |
| 63057  | Decompression of lumbar cauda equina and nerve root<br>by transpedicular approach; Decompression of lumbar<br>cauda equina by transpedicular approach;<br>Decompression of lumbar nerve root by transpedicular<br>approach; Decompression of lumbar spinal cord and<br>nerve root by transpedicular approach; Decompression of<br>lumbar spinal cord by transpedicular approach;<br>Decompression of lumbar spinal cord, cauda equina, and<br>nerve root by transpedicular approach; Decompression of<br>lumbar cauda equina and nerve root in additional<br>vertebra by transpedicular approach; Decompression of<br>lumbar cauda equina in additional vertebra by<br>transpedicular approach; Decompression of<br>lumbar cauda equina in additional vertebra by<br>transpedicular approach; Decompression of<br>lumbar nerve<br>root in additional vertebra by transpedicular approach;<br>Decompression of lumbar spinal cord and nerve root in<br>additional vertebra by transpedicular approach;<br>Decompression of lumbar spinal cord in additional<br>vertebra by transpedicular approach;  |
| 63056  | Decompression of lumbar cauda equina and nerve root<br>by lateral extraforaminal approach; Decompression of<br>lumbar cauda equina and nerve root by transfacet<br>approach; Decompression of lumbar cauda equina and<br>nerve root in single vertebra by lateral extraforaminal<br>approach; Decompression of lumbar cauda equina and<br>nerve root in single vertebra by transfacet approach;<br>Decompression of lumbar cauda equina by lateral<br>extraforaminal approach; Decompression of lumbar<br>cauda equina by transfacet approach; Decompression of<br>lumbar cauda equina in single vertebra by lateral<br>extraforaminal approach; Decompression of lumbar<br>cauda equina in single vertebra by lateral<br>extraforaminal approach; Decompression of lumbar<br>cauda equina in single vertebra by lateral<br>extraforaminal approach; Decompression of lumbar<br>cauda equina in single vertebra by transfacet approach;<br>Decompression of lumbar nerve root by lateral<br>extraforaminal approach; Decompression of lumbar<br>cauda equina in single vertebra by transfacet approach;<br>Decompression of lumbar nerve root by lateral<br>extraforaminal approach; Decompression of lumbar<br>nerve root in single vertebra by lateral<br>extraforaminal approach; Decompression of lumbar nerve<br>root by transfacet approach; Decompression of lumbar<br>nerve root in single vertebra by lateral extraforaminal |

|       | approach; Decompression of lumbar nerve root in single<br>vertebra by transfacet approach; Decompression of<br>lumbar spinal cord and cauda equina by lateral<br>extraforaminal approach; Decompression of lumbar<br>spinal cord and cauda equina by transfacet approach;<br>Decompression of lumbar spinal cord and nerve root by<br>lateral extraforaminal approach; Decompression of<br>lumbar spinal cord and nerve root by transfacet<br>approach; Decompression of lumbar spinal cord by<br>lateral extraforaminal approach; Decompression of<br>lumbar spinal cord by transfacet<br>approach; Decompression of lumbar spinal cord by<br>lateral extraforaminal approach; Decompression of<br>lumbar spinal cord by transfacet approach;<br>Decompression of lumbar spinal cord in single vertebra by<br>lateral extraforaminal approach; Decompression of<br>lumbar spinal cord in single vertebra by transfacet<br>approach; Decompression of lumbar spinal cord, cauda<br>equina, and nerve root by transfacet approach |
|-------|--|
| 62380 | Endoscopic decompression of lumbar nerve root;<br>Endoscopic decompression of lumbar spinal cord;<br>Endoscopic decompression of lumbar spinal cord and<br>nerve root  |
| 63005 | Laminectomy lumbar with exploration and/or<br>decompression of spinal cord and/or cauda equina,<br>without facetectomy, foraminotomy or discectomy (eg,<br>spinal stenosis), 1 or 2 vertebral segments   |
| 63011 | Laminectomy sacral with exploration and/or<br>decompression of spinal cord and/or cauda equina,<br>without facetectomy, foraminotomy or discectomy (eg,<br>spinal stenosis), 1 or 2 vertebral segments   |
| S2348 | Decompression procedure, percutaneous, of nucleus<br>pulposus of intervertebral disc, using radiofrequency<br>energy, single or multiple levels, lumbar  |

#### Service: Multi-Level Lumbar Fusion (with or without Decompression)

<u>General Guidelines</u>

- Units, Frequency, & Duration: None.
- Criteria for Subsequent Requests: None.
- **Recommended Clinical Approach:** Lumbar fusion for central canal or neuroforaminal stenosis is appropriate for patients with moderate to severe symptoms that continue or progress despite nonsurgical treatment with evidence of (or creation of) an unstable spine.<sup>31</sup>
- Exclusions: None.

#### **Medical Necessity Criteria**

Indications

- → Multi-level lumbar fusion, with/without decompression is considered appropriate if there is radiographic evidence of instability or iatrogenic instability caused by or potentially caused by the decompression at each level planned for surgery and ANY of the following is TRUE<sup>31</sup>:
  - The patient has signs or symptoms of cauda equina syndrome or myelopathy and ALL of the following:
    - Magnetic resonance imaging (MRI) reveals compressive pathology.
    - **ANY** of the following symptoms:
      - Bowel, bladder, and erectile dysfunction
      - Diffuse motor weakness
      - Saddle-distribution anesthesia
  - The patient has **ALL** of the following:
    - The patient has **ANY** positive findings from the <u>clinical</u> <u>presentation</u> and <u>typical physical exam findings</u> lists.
    - MRI reveals compressive pathology.
    - **ANY** of the following:
      - The patient fails to show significant improvement in pain or disability level due to symptoms, despite receiving non-surgical management for more than 6 weeks.
      - The patient has severe pain or disability affecting their quality of life and limiting their daily life (including working and unable to provide self care).
      - The patient has progressive neurological motor deficits.

Non-Indications None.

#### Site of Service Criteria

Performed as inpatient or outpatient

## Procedure Codes (HCPCS/CPT)

Decompression without fusion codes: 63012,63017,63030,63035,63042,63044, 63047, 63048, 63056, 63057, 63080

The following codes are add on CPT codes for fusion, or may be submitted as primary codes without decompression codes:

| HCPCS Code | Code Description/Definition   |
|------------|---|
| 22533      | Arthrodesis of lumbar vertebra with minimal discectomy;<br>Arthrodesis of lumbar vertebra by lateral extracavitary<br>technique with minimal discectomy   |
| +22534     | Arthrodesis of lumbar vertebra with minimal discectomy;<br>Arthrodesis of lumbar vertebra with minimal discectomy   |
| 22558      | Arthrodesis by anterior interbody technique of lumbar<br>region with discectomy; Arthrodesis by anterior interbody<br>technique of lumbar region, with minimal discectomy   |
| +22585     | Arthrodesis by anterior interbody technique of vertebral<br>region with discectomy; Arthrodesis by anterior interbody<br>technique of each additional interspace, with minimal<br>discectomy  |
| 22612      | Arthrodesis of lumbar vertebral segment by posterior and<br>lateral transverse technique; Arthrodesis of lumbar<br>vertebral segment by posterior technique; Arthrodesis of<br>lumbar vertebral segment by posterolateral and lateral<br>transverse technique; Arthrodesis of lumbar vertebral<br>segment by posterolateral technique |
| +22614     | Arthrodesis of each additional vertebral segment of single<br>level by posterior technique; Arthrodesis of each additional<br>vertebral segment of single level by posterolateral<br>technique; Arthrodesis of vertebral segment by posterior<br>technique; Arthrodesis of vertebral segment by<br>posterolateral technique           |
| 22630      | Arthrodesis of lumbar vertebral segment by posterior interbody technique with discectomy; Arthrodesis of lumbar   |

|        | vertebral segment by posterior interbody technique with<br>laminectomy; Arthrodesis of lumbar vertebral segment by<br>posterior interbody technique with laminectomy and<br>discectomy; Arthrodesis of single lumbar vertebral<br>interspace by posterior interbody technique with<br>discectomy; Arthrodesis of single lumbar vertebral<br>interspace by posterior interbody technique with<br>laminectomy; Arthrodesis of single lumbar vertebral<br>interspace by posterior interbody technique with<br>laminectomy; Arthrodesis of single lumbar vertebral<br>interspace by posterior interbody technique with<br>laminectomy and discectomy   |
|--------|--|
| +22632 | Arthrodesis of each additional vertebral interspace by<br>posterior interbody technique with discectomy; Arthrodesis<br>of each additional vertebral interspace by posterior<br>interbody technique with laminectomy; Arthrodesis of each<br>additional vertebral interspace by posterior interbody<br>technique with laminectomy and discectomy; Arthrodesis<br>of lumbar vertebral segment by posterior interbody<br>technique with discectomy; Arthrodesis of lumbar vertebral<br>segment by posterior interbody technique with<br>laminectomy; Arthrodesis of lumbar vertebral<br>segment by posterior interbody technique with<br>laminectomy; Arthrodesis of lumbar vertebral segment by<br>posterior interbody technique with laminectomy and<br>discectomy   |
| 22633  | Arthrodesis of single lumbar vertebral interspace by<br>combined posterior technique and posterior interbody<br>technique, with discectomy; Arthrodesis of single lumbar<br>vertebral interspace by combined posterior technique and<br>posterior interbody technique, with laminectomy;<br>Arthrodesis of single lumbar vertebral interspace by<br>combined posterior technique and posterior interbody<br>technique, with laminectomy and discectomy; Arthrodesis<br>of single lumbar vertebral interspace by combined<br>posterolateral technique and posterior interbody technique,<br>with discectomy; Arthrodesis of single lumbar vertebral<br>interspace by combined posterolateral technique and<br>posterior interbody technique, with laminectomy;<br>Arthrodesis of single lumbar vertebral<br>interspace by combined posterolateral technique and<br>posterior interbody technique, with laminectomy;<br>Arthrodesis of single lumbar vertebral interspace by<br>combined posterolateral technique and posterior interbody<br>technique, with laminectomy and discectomy; Arthrodesis<br>of single lumbar vertebral segment by combined posterior<br>technique and posterior interbody technique, with<br>laminectomy; Arthrodesis of single lumbar vertebral<br>segment by combined posterior technique and posterior<br>interbody technique, with laminectomy and discectomy; |

|        | Arthrodesis of single lumbar vertebral segment by combined posterolateral technique and posterior interbody technique, with discectomy   |
|--------|--|
| +22634 | Arthrodesis by combined technique of lumbar vertebral<br>segment with discectomy; Arthrodesis by combined<br>technique of lumbar vertebral segment with laminectomy;<br>Arthrodesis by combined technique of lumbar vertebral<br>segment with laminectomy and discectomy; Arthrodesis of<br>each additional lumbar vertebral interspace by combined<br>posterolateral technique and posterior interbody technique,<br>with discectomy; Arthrodesis of each additional lumbar<br>vertebral interspace by combined posterolateral technique<br>and posterior interbody technique, with laminectomy;<br>Arthrodesis of each additional lumbar vertebral interspace<br>by combined posterolateral technique and posterior<br>interbody technique, with laminectomy and discectomy;<br>Arthrodesis of each additional lumbar vertebral segment by<br>combined posterior technique and posterior interbody<br>technique, with discectomy; Arthrodesis of each additional<br>lumbar vertebral segment by combined posterior<br>technique and posterior interbody technique, with<br>laminectomy; Arthrodesis of each additional<br>lumbar vertebral segment by combined posterior<br>technique and posterior interbody technique, with<br>laminectomy; Arthrodesis of each additional lumbar<br>vertebral segment by combined posterior technique and<br>posterior interbody technique, with laminectomy and<br>discectomy; Arthrodesis of each additional lumbar<br>vertebral segment by combined posterior technique<br>and posterior interbody technique, with discectomy;<br>Arthrodesis of each additional lumbar<br>vertebral segment by combined posterolateral technique<br>and posterior interbody technique, with discectomy;<br>Arthrodesis of each additional lumbar<br>vertebral segment by combined posterior interbody<br>technique, with laminectomy; Arthrodesis of each<br>additional lumbar vertebral segment by<br>combined posterolateral technique and posterior interbody<br>technique, with laminectomy; Arthrodesis of each<br>additional lumbar vertebral segment by combined<br>posterolateral technique and posterior interbody technique,<br>with laminectomy and discectomy |
| 22840  | Posterior non segmental instrumentation  |
| 22842  | Posterior segmental instrumentation 3-6 vertebral segments   |
| 22843  | Posterior segmental instrumentation 7-12_vertebral<br>segments   |
| 22844  | Posterior segmental instrumentation >/13 vertebral segments  |
| 22845  | Anterior Instrumentation 2-3 vertebral segments  |
| 22846  | Anterior Instrumentation 4-7 vertebral segments  |
| 22847  | Anterior Instrumentation >/8 vertebral segments  |

| 22853 | Insertion of biomechanical interbody device with arthrodesis  |
|-------|---|
| 22854 | Insertion of biomechanical device with corpectomy defect w/ arthrodesis   |
| 63012 | Laminectomy of lumbar spine with removal of abnormal<br>facet and decompression of cauda equina and nerve root;<br>Laminectomy of lumbar spine with removal of abnormal<br>facet and pars inter-articularis and decompression of<br>cauda equina and nerve root; Laminectomy of lumbar<br>spine with removal of abnormal pars inter-articularis and<br>decompression of cauda equina and nerve root   |
| 63017 | Laminectomy of lumbar spine with decompression of<br>cauda equina; Laminectomy of lumbar spine with<br>decompression of spinal cord; Laminectomy of lumbar<br>spine with decompression of spinal cord and cauda equina;<br>Laminectomy of lumbar spine with exploration of cauda<br>equina; Laminectomy of lumbar spine with exploration of<br>spinal cord; Laminectomy of lumbar spine with exploration<br>of spinal cord and cauda equina   |
| 63047 | Unilateral laminectomy, facetectomy, and foraminotomy of<br>lumbar spine with decompression of nerve root; Unilateral<br>laminectomy, facetectomy, and foraminotomy of lumbar<br>spine with decompression of spinal cord; Unilateral<br>laminectomy, facetectomy, and foraminotomy of lumbar<br>spine with decompression of spinal cord and nerve root;<br>Unilateral laminectomy, facetectomy, and foraminotomy of<br>lumbar spine with decompression of cauda equina;<br>Unilateral laminectomy, facetectomy, and foraminotomy of<br>single vertebra of lumbar spine with decompression of<br>cauda equina; Unilateral laminectomy, facetectomy, and<br>foraminotomy of single vertebra of lumbar spine with<br>decompression of cauda equina and nerve root; Unilateral<br>laminectomy, facetectomy, and foraminotomy of single<br>vertebra of lumbar spine with decompression of nerve root;<br>Unilateral laminectomy, facetectomy, and foraminotomy of<br>single vertebra of lumbar spine with decompression of nerve root;<br>Unilateral laminectomy, facetectomy, and foraminotomy of<br>single vertebra of lumbar spine with decompression of nerve root;<br>Unilateral laminectomy, facetectomy, and foraminotomy of<br>single vertebra of lumbar spine with decompression of<br>spinal cord; Unilateral laminectomy, facetectomy, and<br>foraminotomy of single vertebra of lumbar spine with<br>decompression of spinal cord and nerve root |
| 63048 | Unilateral laminectomy, facetectomy, and foraminotomy of<br>lumbar spine with decompression of nerve root; Unilateral<br>laminectomy, facetectomy, and foraminotomy of lumbar   |

| <ul> <li>spine with decompression of spinal cord; Unilateral<br/>laminectomy, facetectomy, and foraminotomy of lumbar<br/>spine with decompression of spinal cord and nerve root;<br/>Unilateral laminectomy, facetectomy, and foraminotomy of<br/>additional vertebra of lumbar spine with decompression of<br/>nerve root; Unilateral laminectomy, facetectomy, and<br/>foraminotomy of additional vertebra of lumbar spine with<br/>decompression of spinal cord; Unilateral laminectomy,<br/>facetectomy, and foraminotomy of additional vertebra of<br/>lumbar spine with decompression of spinal cord and nerve<br/>root</li> <li>+63052</li> <li>Laminectomy, facetectomy, or foraminotomy (unilateral or<br/>bilateral with decompression of spinal cord, cauda equina<br/>and/or nerve root[s] [eg, spinal or lateral recess stenosis]),<br/>during posterior interbody arthrodesis, lumbar; single<br/>vertebral segment (List separately in addition to code for<br/>primary procedure)</li> <li>+63053</li> <li>Laminectomy, facetectomy, or foraminotomy (unilateral or<br/>bilateral with decompression of spinal cord, cauda equina<br/>and/or nerve root[s] [eg, spinal or lateral recess stenosis]),<br/>during posterior interbody arthrodesis, lumbar; single<br/>vertebral segment (List separately in addition to code for<br/>primary procedure)</li> <li>63057</li> <li>Decompression of lumbar cauda equina and nerve root by<br/>transpedicular approach; Decompression of<br/>lumbar nerve root by transpedicular approach;<br/>Decompression of lumbar spinal cord and nerve root by<br/>transpedicular approach; Decompression of<br/>lumbar spinal<br/>cord by transpedicular approach; Decompression of<br/>lumbar spinal<br/>cord by transpedicular approach; Decompression of<br/>lumbar spinal cord, cauda equina, and nerve root by<br/>transpedicular approach; Decompression of lumbar cauda<br/>equina in additional vertebra by transpedicular approach;<br/>Decompression of lumbar nerve root in additional vertebra<br/>by transpedicular approach; Decompression of lumbar cauda<br/>equina in additional vertebra by transpedicular approach;<br/>Decompression of lumbar nerve root in additional</li></ul> |        |  |
|---|--------|--|
| <ul> <li>bilateral with decompression of spinal cord, cauda equina<br/>and/or nerve root[s] [eg, spinal or lateral recess stenosis]),<br/>during posterior interbody arthrodesis, lumbar; single<br/>vertebral segment (List separately in addition to code for<br/>primary procedure)</li> <li>+63053 Laminectomy, facetectomy, or foraminotomy (unilateral or<br/>bilateral with decompression of spinal cord, cauda equina<br/>and/or nerve root[s] [eg, spinal or lateral recess stenosis]),<br/>during posterior interbody arthrodesis, lumbar; each<br/>additional vertebral segment (List separately in addition to<br/>code for primary procedure)</li> <li>63057 Decompression of lumbar cauda equina and nerve root by<br/>transpedicular approach; Decompression of<br/>lumbar nerve root by transpedicular approach;<br/>Decompression of lumbar spinal cord and nerve root by<br/>transpedicular approach; Decompression of<br/>lumbar spinal cord, cauda equina, and nerve root by<br/>transpedicular approach; Decompression of<br/>lumbar spinal cord, cauda equina, and nerve root by<br/>transpedicular approach; Decompression of<br/>lumbar spinal cord, cauda equina, and nerve root by<br/>transpedicular approach; Decompression of<br/>lumbar spinal cord, cauda equina, and nerve root by<br/>transpedicular approach; Decompression of<br/>lumbar spinal cord, cauda equina, and nerve root by<br/>transpedicular approach; Decompression of lumbar cauda<br/>equina in additional vertebra by transpedicular approach;<br/>Decompression of lumbar nerve root in additional vertebra<br/>by transpedicular approach; Decompression of lumbar cauda<br/>equina in additional vertebra by transpedicular approach;<br/>Decompression of lumbar nerve root in additional vertebra<br/>by transpedicular approach; Decompression of lumbar spinal<br/>cord in additional vertebra by transpedicular approach;<br/>Decompression of lumbar nerve root in additional vertebra</li> </ul>   |        | laminectomy, facetectomy, and foraminotomy of lumbar<br>spine with decompression of spinal cord and nerve root;<br>Unilateral laminectomy, facetectomy, and foraminotomy of<br>additional vertebra of lumbar spine with decompression of<br>nerve root; Unilateral laminectomy, facetectomy, and<br>foraminotomy of additional vertebra of lumbar spine with<br>decompression of spinal cord; Unilateral laminectomy,<br>facetectomy, and foraminotomy of additional vertebra of<br>lumbar spine with decompression of spinal cord and nerve   |
| <ul> <li>bilateral with decompression of spinal cord, cauda equina<br/>and/or nerve root[s] [eg, spinal or lateral recess stenosis]),<br/>during posterior interbody arthrodesis, lumbar; each<br/>additional vertebral segment (List separately in addition to<br/>code for primary procedure)</li> <li>63057 Decompression of lumbar cauda equina and nerve root by<br/>transpedicular approach; Decompression of lumbar cauda<br/>equina by transpedicular approach; Decompression of<br/>lumbar nerve root by transpedicular approach;<br/>Decompression of lumbar spinal cord and nerve root by<br/>transpedicular approach; Decompression of<br/>lumbar spinal cord, cauda equina, and nerve root by<br/>transpedicular approach; Decompression of<br/>lumbar spinal cord, cauda equina, and nerve root by<br/>transpedicular approach; Decompression of<br/>lumbar spinal cord, cauda equina, and nerve root by<br/>transpedicular approach; Decompression of<br/>lumbar spinal cord, cauda equina, and nerve root by<br/>transpedicular approach; Decompression of lumbar cauda<br/>equina and nerve root in additional vertebra by<br/>transpedicular approach; Decompression of lumbar cauda<br/>equina in additional vertebra by transpedicular approach;<br/>Decompression of lumbar nerve root in additional vertebra<br/>by transpedicular approach; Decompression of lumbar<br/>spinal cord and nerve root in additional vertebra by<br/>transpedicular approach; Decompression of lumbar<br/>spinal cord and nerve root in additional vertebra by<br/>transpedicular approach; Decompression of lumbar<br/>spinal cord and nerve root in additional vertebra by</li> </ul>  | +63052 | bilateral with decompression of spinal cord, cauda equina<br>and/or nerve root[s] [eg, spinal or lateral recess stenosis]),<br>during posterior interbody arthrodesis, lumbar; single<br>vertebral segment (List separately in addition to code for  |
| transpedicular approach; Decompression of lumbar cauda<br>equina by transpedicular approach; Decompression of<br>lumbar nerve root by transpedicular approach;<br>Decompression of lumbar spinal cord and nerve root by<br>transpedicular approach; Decompression of lumbar spinal<br>cord by transpedicular approach; Decompression of<br>lumbar spinal cord, cauda equina, and nerve root by<br>transpedicular approach; Decompression of lumbar cauda<br>equina and nerve root in additional vertebra by<br>transpedicular approach; Decompression of lumbar cauda<br>equina in additional vertebra by transpedicular approach;<br>Decompression of lumbar nerve root in additional vertebra<br>by transpedicular approach; Decompression of lumbar cauda<br>equina in additional vertebra by transpedicular approach;<br>Decompression of lumbar nerve root in additional vertebra<br>by transpedicular approach; Decompression of lumbar<br>spinal cord and nerve root in additional vertebra by<br>transpedicular approach; Decompression of lumbar<br>spinal cord and nerve root in additional vertebra by   | +63053 | bilateral with decompression of spinal cord, cauda equina<br>and/or nerve root[s] [eg, spinal or lateral recess stenosis]),<br>during posterior interbody arthrodesis, lumbar; each<br>additional vertebral segment (List separately in addition to  |
| 63056 Decompression of lumbar cauda equina and nerve root by  | 63057  | transpedicular approach; Decompression of lumbar cauda<br>equina by transpedicular approach; Decompression of<br>lumbar nerve root by transpedicular approach;<br>Decompression of lumbar spinal cord and nerve root by<br>transpedicular approach; Decompression of lumbar spinal<br>cord by transpedicular approach; Decompression of<br>lumbar spinal cord, cauda equina, and nerve root by<br>transpedicular approach; Decompression of lumbar cauda<br>equina and nerve root in additional vertebra by<br>transpedicular approach; Decompression of lumbar cauda<br>equina in additional vertebra by transpedicular approach; Decompression of lumbar cauda<br>by transpedicular approach; Decompression of lumbar cauda<br>equina in additional vertebra by transpedicular approach;<br>Decompression of lumbar nerve root in additional vertebra<br>by transpedicular approach; Decompression of lumbar<br>spinal cord and nerve root in additional vertebra by<br>transpedicular approach; Decompression of lumbar<br>spinal cord and nerve root in additional vertebra by |
|   | 63056  | Decompression of lumbar cauda equina and nerve root by   |

|       | lateral extraforaminal approach; Decompression of lumbar<br>cauda equina and nerve root by transfacet approach;<br>Decompression of lumbar cauda equina and nerve root in<br>single vertebra by lateral extraforaminal approach;<br>Decompression of lumbar cauda equina and nerve root in<br>single vertebra by transfacet approach; Decompression of<br>lumbar cauda equina by lateral extraforaminal approach;<br>Decompression of lumbar cauda equina by transfacet<br>approach; Decompression of lumbar cauda equina in<br>single vertebra by lateral extraforaminal approach;<br>Decompression of lumbar cauda equina in single vertebra<br>by transfacet approach; Decompression of lumbar nerve<br>root by lateral extraforaminal approach;<br>Decompression of lumbar cauda equina in single vertebra<br>by transfacet approach; Decompression of lumbar nerve<br>root by lateral extraforaminal approach; Decompression<br>of lumbar nerve root by transfacet approach; Decompression<br>of lumbar nerve root in single vertebra by lateral<br>extraforaminal approach; Decompression of lumbar nerve<br>root in single vertebra by transfacet approach;<br>Decompression of lumbar spinal cord and cauda equina by<br>lateral extraforaminal approach; Decompression of lumbar<br>spinal cord and cauda equina by transfacet approach;<br>Decompression of lumbar spinal cord and nerve root by<br>lateral extraforaminal approach; Decompression of lumbar<br>spinal cord and nerve root by transfacet approach;<br>Decompression of lumbar spinal cord by lateral<br>extraforaminal approach; Decompression of lumbar<br>spinal cord and nerve root by transfacet approach;<br>Decompression of lumbar spinal cord by lateral<br>extraforaminal approach; Decompression of lumbar<br>spinal cord in single vertebra by lateral extraforaminal<br>approach; Decompression of lumbar<br>spinal cord in single vertebra by lateral extraforaminal<br>approach; Decompression of lumbar<br>spinal cord in single vertebra by lateral extraforaminal<br>approach; Decompression of lumbar<br>spinal cord in single vertebra by lateral extraforaminal<br>approach; Decompression of lumbar<br>spinal cord, cauda equina, and nerve root by |
|-------|--|
| 62380 | Endoscopic decompression of lumbar nerve root;<br>Endoscopic decompression of lumbar spinal cord;<br>Endoscopic decompression of lumbar spinal cord and<br>nerve root  |
|       | Laminectomy lumbar with exploration and/or<br>decompression of spinal cord and/or cauda equina, without<br>facetectomy, foraminotomy or discectomy (eg, spinal   |
| 63005 | stenosis), 1 or 2 vertebral segments   |
|       | Laminectomy sacral with exploration and/or decompression   |
|       | of spinal cord and/or cauda equina, without facetectomy,   |
| 63011 | foraminotomy or discectomy (eg, spinal stenosis), 1 or 2   |

|       | vertebral segments  |
|-------|---|
|       | Decompression procedure, percutaneous, of nucleus             |
|       | pulposus of intervertebral disc, using radiofrequency energy, |
| S2348 | single or multiple levels, lumbar                             |

## Surgical Risk Factors

#### Patient Medical Risk Stratification

| Patient Risk Score      | Patient Characteristic                                      | Min Range  | Max<br>Range     | Guidance                                  |
|-------------------------|---|--|------------------|---|
| 1- Very Low Risk        | No known medical problems                                   |  |                  |   |
| 2- Low Risk             | Hypertension  |  | 180/110<br>mm Hg |   |
| 2- Low Risk             | Asthma  | peak flow<br>>80% of<br>predicted or<br>personal best<br>value |                  |   |
| 2- Low Risk             | Prior history of alcohol abuse                              |  |                  | Screen for liver disease and malnutrition |
| 2- Low Risk             | Prior history of tobacco use                                |  |                  |   |
| 3- Intermediate<br>Risk | Asthma  | peak flow<br><80% of<br>predicted or<br>personal best<br>value |                  |   |
| 3- Intermediate<br>Risk | Active alcohol abuse  |  |                  |   |
| 3- Intermediate<br>Risk | Age   | 65   | 75               |   |
| 3- Intermediate<br>Risk | History of treated, stable coronary<br>artery disease (CAD) |  |                  |   |
| 3- Intermediate<br>Risk | Stable atrial fibrillation                                  |  |                  |   |
| 3- Intermediate<br>Risk | Diabetes mellitus   | HbA1C >7%  |                  |   |
| 3- Intermediate<br>Risk | Morbid obesity  | вмі 30   | BMI 40           |   |
| 3- Intermediate<br>Risk | Anemia  | hemoglobin<br><11 (females),<br><12 (males)                    |                  | Workup to identify etiology               |
| 3- Intermediate<br>Risk | HIV   | CD4 <200<br>cells/mm3  |                  | Get clearance from HIV<br>specialist      |

| 3- Intermediate<br>Risk<br>3- Intermediate | Rheumatologic disease<br>Peripheral vascular disease or history         | ankle-brachi<br>al pressure<br>index (ABPI)  |    | Preoperative consultation with<br>rheumatologist re:<br>perioperative medication<br>management<br>Preoperative consultation with |
|--|---|--|----|--|
| Risk<br>3- Intermediate                    | of peripheral vascular bypass<br>History of venous thromboembolism      | <0.9   |    | vascular surgeon   |
| Risk                                       | (VTE)   |  |    |  |
| 3- Intermediate<br>Risk                    | Well-controlled obstructive sleep<br>apnea                              |  |    |  |
| 3- Intermediate                            |   | transferrin<br><200 mg/dL<br>albumin <3.5<br>g/dL<br>prealbumin<br><22.5 mg/dL<br>total<br>lymphocyte<br>count<br><1200-1500<br>cell/mm3 |    | Preoperative consultation with   |
| Risk<br>                                   | Malnutrition  | BMI <18  |    | nutritionist   |
| 3- Intermediate<br>Risk                    | Active tobacco Use  |  |    | Enroll patient in smoking<br>cessation program   |
| 4- High Risk                               | Diabetes mellitus with complications                                    | HbA1c >8%  |    |  |
| 4- High Risk                               | Age   | 76   | 85 |  |
| 4- High Risk                               | Oxygen dependent pulmonary<br>disease                                   |  |    |  |
| 4- High Risk                               | Sickle cell anemia  |  |    |  |
| 4- High Risk                               | Obesity   | ВМІ 40   |    |  |
| 4- High Risk                               | Cirrhosis, history of hepatic<br>decompensation or variceal<br>bleeding |  |    |  |

| 4- High Risk      | Impaired cognition; dementia  |                     |         |                                |
|-------------------|---|---------------------|---------|--------------------------------|
| 4- High Risk      | Compensated CHF   |                     |         |                                |
|                   |   |                     |         |                                |
| 4- High Risk      | Cerebrovascular disease   |                     |         |                                |
|                   | Uncontrolled or suspected   |                     |         |                                |
| 4- High Risk      | obstructive sleep apnea (OSA)   |                     |         |                                |
|                   |   | serum<br>creatinine |         |                                |
|                   |   | >1.5 mg/dL or       |         |                                |
|                   |   | creatinine          |         |                                |
|                   |   | clearance           |         |                                |
| 4- High Risk      | Renal insufficiency   | <100 mL/min         |         |                                |
|                   |   |                     |         |                                |
|                   |   |                     |         |                                |
| 4- High Risk      | Opioid dependence   |                     |         |                                |
|                   |   |                     |         |                                |
|                   |   |                     |         |                                |
| 4- High Risk      | End Stage Liver Disease   |                     |         |                                |
|                   |   |                     |         |                                |
|                   |   |                     |         |                                |
| 4- High Risk      | Uncontrolled Seizure Disorder   |                     |         |                                |
|                   |   |                     |         |                                |
|                   |   |                     |         |                                |
| 4- High Risk      | History of Malignant Hyperthermia                                       |                     |         |                                |
|                   | Cardiovascular: unstable angina,  |                     |         |                                |
|                   | recent myocardial infarction (60  |                     |         |                                |
|                   | days), uncontrolled atrial fibrillation<br>or other high-grade abnormal |                     |         |                                |
|                   | rhythm, severe valvular disease,  |                     |         |                                |
| 5- Very High Risk | decompensated heart failure   |                     |         |                                |
|                   |   |                     |         | Preoperative consultation with |
| 5- Very High Risk | Primary pulmonary hypertension  |                     |         | ,<br>pulmonologist warranted   |
|                   | Cirrhosis or severe liver disease,                                      |                     |         |                                |
|                   | history of hepatic decompensation                                       |                     |         |                                |
| 5- Very High Risk | or variceal bleeding  |                     |         |                                |
|                   | Severe frailty, dependence for ADLs,                                    |                     |         |                                |
|                   | or history of 3 or more falls in last 6                                 |                     |         |                                |
| 5- Very High Risk | mos   |                     |         |                                |
| 5- Very High Risk | Obesity   |                     | BMI >50 |                                |
| 5- Very High Risk | Age   |                     | >85     |                                |
| , , ,             | ~   |                     |         |                                |

|                   | History of VTE with CI to         |  |                                |
|-------------------|-----------------------------------|--|--------------------------------|
|                   | anticoagulation, failure of       |  |                                |
|                   | anticoagulation, cessation of     |  |                                |
|                   | anticoagulation therapy secondary |  | Preoperative consultation with |
| 5- Very High Risk | to bleeding                       |  | hematologist or internist      |
| 5- Very High Risk | Renal failure requiring dialysis  |  |                                |
| 5- Very High Risk | Immunosuppression                 |  |                                |
| 5- Very High Risk | Chronic Pain                      |  |                                |

## Post-Operative Care

#### Service: Physical Therapy

**General Guidelines** 

- Units, Frequency, & Duration: None.
- Criteria for Subsequent Requests: None.
- **Recommended Clinical Approach:** Physical therapy is recommended for postoperative care after lumbar discectomy or decompression.<sup>32</sup>
- Exclusions: None.

#### **Medical Necessity Criteria**

Indications

- → Physical therapy postoperative may be appropriate if ANY of the following is TRUE<sup>32</sup>:
  - The patient had surgery related to their lumbar radiculopathy diagnosis.

Non-Indications

None.

Site of Service Criteria

Outpatient

| HCPCS Code | Code Description/Definition           |
|------------|---------------------------------------|
| 97010      | Application of hot or cold packs      |
| 97012      | Application of mechanical traction    |
| 97014      | Application of electrical stimulation |
| 97016      | Application of vasopneumatic devices  |
| 97018      | Application of paraffin bath          |
| 97022      | Application of whirlpool              |
| 97024      | Application of diathermy              |

| range of motion and flexibility97112Neuromuscular reeducation of movement, balance,<br>coordination, kinesthetic sense, posture, and<br>proprioception for sitting and standing activities97113Aquatic therapy with therapeutic exercises97116Gait training including stair climbing97124Massage including effleurage and petrissage; Massage<br>including effleurage and tapotement; Massage including<br>effleurage, petrissage and tapotement; Massage<br>including petrissage and tapotement97139Therapeutic procedure97140Manual therapy techniques97150Group therapeutic procedures97164Physical therapy re-evaluation of established plan of care<br>high complexity, typical time with patient 20 minutes;<br>Physical therapy re-evaluation of established plan of care<br>high complexity, typical time with patient and family 20<br>minutes;<br>Physical therapy re-evaluation of established plan of care<br>high complexity, typical time with patient and family 20<br>minutes;<br>Physical therapy re-evaluation of established plan of care<br>high complexity, typical time with patient and family 20<br>minutes;<br>Physical therapy re-evaluation of established plan of care<br>high complexity, typical time with patient's family 20<br>minutes  |        |  |
|--|--------|--|
| 97032       Application of manual electrical stimulation         97033       Application of iontophoresis         97034       Application of contrast baths         97035       Application of ultrasound modality         97036       Application of Hubbard tank         97039       Modality service         97110*       Therapeutic exercises to develop strength and endurance range of motion and flexibility         97112       Neuromuscular reeducation of movement, balance, coordination, kinesthetic sense, posture, and proprioception for sitting and standing activities         97113       Aquatic therapy with therapeutic exercises         97116       Gait training including stair climbing         97124       Massage and tapotement; Massage including effleurage and tapotement         97139       Therapeutic procedure         97140       Manual therapy techniques         97150       Group therapeutic procedures         97164       Physical therapy re-evaluation of established plan of care high complexity, typical time with patient and family 20 minutes; Physical therapy re-evaluation of established plan of care high complexity, typical time with patient and family 20 minutes  | 97026  | Application of infrared modality   |
| 97033       Application of iontophoresis         97034       Application of contrast baths         97035       Application of ultrasound modality         97036       Application of Hubbard tank         97039       Modality service         97110*       Therapeutic exercises to develop strength and endurance, range of motion and flexibility         97112       Neuromuscular reeducation of movement, balance, coordination, kinesthetic sense, posture, and proprioception for sitting and standing activities         97113       Aquatic therapy with therapeutic exercises         97116       Gait training including stair climbing         97124       Massage including effleurage and tapotement; Massage including effleurage, petrissage and tapotement         97139       Therapeutic procedure         97140       Manual therapy techniques         97150       Group therapeutic procedures         97164       Physical therapy re-evaluation of established plan of care high complexity, typical time with patient and family 20 minutes; Physical therapy re-evaluation of established plan of care high complexity, typical time with patient and family 20 minutes   | 97028  | Application of ultraviolet modality  |
| 97034       Application of contrast baths         97035       Application of ultrasound modality         97036       Application of Hubbard tank         97039       Modality service         97110*       Therapeutic exercises to develop strength and endurance range of motion and flexibility         97112       Neuromuscular reeducation of movement, balance, coordination, kinesthetic sense, posture, and proprioception for sitting and standing activities         97113       Aquatic therapy with therapeutic exercises         97116       Gait training including stair climbing         97124       Massage including effleurage and tapotement; Massage including effleurage, petrissage and tapotement; Massage including effleurage, petrissage and tapotement         97139       Therapeutic procedure         97140       Manual therapy techniques         97150       Group therapeutic procedures         97164       Physical therapy re-evaluation of established plan of care high complexity, typical time with patient and family 20 minutes; Physical therapy re-evaluation of established plan of care high complexity, typical time with patient and family 20 minutes;   | 97032  | Application of manual electrical stimulation   |
| 97035       Application of ultrasound modality         97036       Application of Hubbard tank         97039       Modality service         97110*       Therapeutic exercises to develop strength and endurance range of motion and flexibility         97112       Neuromuscular reeducation of movement, balance, coordination, kinesthetic sense, posture, and proprioception for sitting and standing activities         97113       Aquatic therapy with therapeutic exercises         97116       Gait training including stair climbing         97124       Massage including effleurage and petrissage; Massage including effleurage, petrissage and tapotement; Massage including effleurage, petrissage and tapotement         97139       Therapeutic procedure         97140       Manual therapy techniques         97150       Group therapeutic procedures         97164       Physical therapy re-evaluation of established plan of care high complexity, typical time with patient 20 minutes; Physical therapy re-evaluation of established plan of care high complexity, typical time with patient and family 20 minutes;         Physical therapy re-evaluation of established plan of care high complexity, typical time with patient's family 20 minutes  | 97033  | Application of iontophoresis   |
| 97036       Application of Hubbard tank         97039       Modality service         97110*       Therapeutic exercises to develop strength and endurance range of motion and flexibility         97110       Neuromuscular reeducation of movement, balance, coordination, kinesthetic sense, posture, and proprioception for sitting and standing activities         97113       Aquatic therapy with therapeutic exercises         97116       Gait training including stair climbing         97124       Massage including effleurage and tapotement; Massage including effleurage, petrissage and tapotement; Massage including effleurage, petrissage and tapotement         97139       Therapeutic procedure         97140       Manual therapy techniques         97150       Group therapeutic procedures         97164       Physical therapy re-evaluation of established plan of care high complexity, typical time with patient 20 minutes; Physical therapy re-evaluation of established plan of care high complexity, typical time with patient and family 20 minutes; Physical therapy re-evaluation of established plan of care high complexity, typical time with patient and family 20 minutes;  | 97034  | Application of contrast baths  |
| 97039       Modality service         97110*       Therapeutic exercises to develop strength and endurance range of motion and flexibility         97112       Neuromuscular reeducation of movement, balance, coordination, kinesthetic sense, posture, and proprioception for sitting and standing activities         97113       Aquatic therapy with therapeutic exercises         97116       Gait training including stair climbing         97124       Massage including effleurage and petrissage; Massage including effleurage, petrissage and tapotement; Massage including effleurage, petrissage and tapotement         97139       Therapeutic procedure         97140       Manual therapy techniques         97150       Group therapeutic procedures         97164       Physical therapy re-evaluation of established plan of care high complexity, typical time with patient 20 minutes; Physical therapy re-evaluation of established plan of care high complexity, typical time with patient and family 20 minutes; Physical therapy re-evaluation of established plan of care high complexity, typical time with patient and family 20 minutes;  | 97035  | Application of ultrasound modality   |
| 97110*       Therapeutic exercises to develop strength and endurance range of motion and flexibility         97112       Neuromuscular reeducation of movement, balance, coordination, kinesthetic sense, posture, and proprioception for sitting and standing activities         97113       Aquatic therapy with therapeutic exercises         97116       Gait training including stair climbing         97124       Massage including effleurage and petrissage; Massage including effleurage, petrissage and tapotement; Massage including effleurage, petrissage and tapotement         97139       Therapeutic procedure         97140       Manual therapy techniques         97150       Group therapeutic procedures         97164       Physical therapy re-evaluation of established plan of care high complexity, typical time with patient 20 minutes; Physical therapy re-evaluation of established plan of care high complexity, typical time with patient and family 20 minutes; Physical therapy re-evaluation of established plan of care high complexity, typical time with patient and family 20 minutes; Physical therapy re-evaluation of established plan of care high complexity, typical time with patient and family 20 minutes; Physical therapy re-evaluation of established plan of care high complexity, typical time with patient and family 20 minutes; | 97036  | Application of Hubbard tank  |
| range of motion and flexibility97112Neuromuscular reeducation of movement, balance,<br>coordination, kinesthetic sense, posture, and<br>proprioception for sitting and standing activities97113Aquatic therapy with therapeutic exercises97116Gait training including stair climbing97124Massage including effleurage and petrissage; Massage<br>including effleurage and tapotement; Massage including<br>effleurage, petrissage and tapotement; Massage<br>including petrissage and tapotement97139Therapeutic procedure97140Manual therapy techniques97150Group therapeutic procedures97164Physical therapy re-evaluation of established plan of care<br>high complexity, typical time with patient 20 minutes;<br>Physical therapy re-evaluation of established plan of care<br>high complexity, typical time with patient and family 20<br>minutes;<br>Physical therapy re-evaluation of established plan of care<br>high complexity, typical time with patient and family 20<br>minutes;<br>Physical therapy re-evaluation of established plan of care<br>high complexity, typical time with patient and family 20<br>minutes;<br>Physical therapy re-evaluation of established plan of care<br>high complexity, typical time with patient's family 20<br>minutes;   | 97039  | Modality service   |
| coordination, kinesthetic sense, posture, and<br>proprioception for sitting and standing activities97113Aquatic therapy with therapeutic exercises97116Gait training including stair climbing97124Massage including effleurage and petrissage; Massage<br>including effleurage and tapotement; Massage including<br>effleurage, petrissage and tapotement; Massage<br>including petrissage and tapotement97139Therapeutic procedure97140Manual therapy techniques97150Group therapeutic procedures97164Physical therapy re-evaluation of established plan of care<br>high complexity, typical time with patient 20 minutes;<br>Physical therapy re-evaluation of established plan of care<br>high complexity, typical time with patient and family 20<br>minutes;<br>Physical therapy re-evaluation of established plan of care<br>high complexity, typical time with patient and family 20<br>minutes;<br>Physical therapy re-evaluation of established plan of care<br>high complexity, typical time with patient and family 20<br>minutes;  | 97110* | Therapeutic exercises to develop strength and endurance, range of motion and flexibility   |
| 97116Gait training including stair climbing97116Gait training including stair climbing97124Massage including effleurage and tapotement; Massage including effleurage, petrissage and tapotement; Massage including petrissage and tapotement97139Therapeutic procedure97140Manual therapy techniques97150Group therapeutic procedures97164Physical therapy re-evaluation of established plan of care high complexity, typical time with patient 20 minutes; Physical therapy re-evaluation of established plan of care high complexity, typical time with patient and family 20 minutes; Physical therapy re-evaluation of established plan of care high complexity, typical time with patient and family 20 minutes; Physical therapy re-evaluation of established plan of care high complexity, typical time with patient and family 20 minutes; Physical therapy re-evaluation of established plan of care high complexity, typical time with patient and family 20 minutes;  | 97112  | coordination, kinesthetic sense, posture, and  |
| 97124Massage including effleurage and petrissage; Massage including effleurage and tapotement; Massage including effleurage, petrissage and tapotement; Massage including petrissage and tapotement97139Therapeutic procedure97140Manual therapy techniques97150Group therapeutic procedures97164Physical therapy re-evaluation of established plan of care high complexity, typical time with patient 20 minutes; Physical therapy re-evaluation of established plan of care high complexity, typical time with patient and family 20 minutes; Physical therapy re-evaluation of established plan of care high complexity, typical time with patient and family 20 minutes; Physical therapy re-evaluation of established plan of care high complexity, typical time with patient and family 20 minutes; Physical therapy re-evaluation of established plan of care high complexity, typical time with patient and family 20 minutes; Physical therapy re-evaluation of established plan of care high complexity, typical time with patient and family 20 minutes;  | 97113  | Aquatic therapy with therapeutic exercises   |
| including effleurage and tapotement; Massage including<br>effleurage, petrissage and tapotement; Massage<br>including petrissage and tapotement97139Therapeutic procedure97140Manual therapy techniques97150Group therapeutic procedures97164Physical therapy re-evaluation of established plan of care<br>high complexity, typical time with patient 20 minutes;<br>Physical therapy re-evaluation of established plan of care<br>high complexity, typical time with patient and family 20<br>minutes;<br>Physical therapy re-evaluation of established plan of care<br>high complexity, typical time with patient and family 20<br>minutes;  | 97116  | Gait training including stair climbing   |
| 97140       Manual therapy techniques         97150       Group therapeutic procedures         97164       Physical therapy re-evaluation of established plan of care high complexity, typical time with patient 20 minutes; Physical therapy re-evaluation of established plan of care high complexity, typical time with patient and family 20 minutes; Physical therapy re-evaluation of established plan of care high complexity, typical time with patient and family 20 minutes;         Physical therapy re-evaluation of established plan of care high complexity, typical time with patient and family 20 minutes;         Physical therapy re-evaluation of established plan of care high complexity, typical time with patient's family 20 minutes  | 97124  | including effleurage and tapotement; Massage including effleurage, petrissage and tapotement; Massage  |
| 97150Group therapeutic procedures97164Physical therapy re-evaluation of established plan of care<br>high complexity, typical time with patient 20 minutes;<br>Physical therapy re-evaluation of established plan of care<br>high complexity, typical time with patient and family 20<br>minutes;<br>Physical therapy re-evaluation of established plan of care<br>high complexity, typical time with patient and family 20<br>minutes;<br>Physical therapy re-evaluation of established plan of care<br>high complexity, typical time with patient and family 20<br>minutes;   | 97139  | Therapeutic procedure  |
| 97164 Physical therapy re-evaluation of established plan of care<br>high complexity, typical time with patient 20 minutes;<br>Physical therapy re-evaluation of established plan of care<br>high complexity, typical time with patient and family 20<br>minutes;<br>Physical therapy re-evaluation of established plan of care<br>high complexity, typical time with patient's family 20<br>minutes  | 97140  | Manual therapy techniques  |
| high complexity, typical time with patient 20 minutes;<br>Physical therapy re-evaluation of established plan of care<br>high complexity, typical time with patient and family 20<br>minutes;<br>Physical therapy re-evaluation of established plan of care<br>high complexity, typical time with patient's family 20<br>minutes  | 97150  | Group therapeutic procedures   |
| 07520 Direct therapolitic activities with use of dynamic activities  | 97164  | Physical therapy re-evaluation of established plan of care,<br>high complexity, typical time with patient and family 20<br>minutes;<br>Physical therapy re-evaluation of established plan of care,<br>high complexity, typical time with patient's family 20 |
| Direct therapeutic activities with use of dynamic activities   | 97530  | Direct therapeutic activities with use of dynamic activities   |

| 97542 | Wheelchair management, each 15 minutes  |
|-------|---|
| 97545 | Work conditioning, initial 2 hours;<br>Work hardening, initial 2 hours  |
| 97546 | Work conditioning, each additional hour;<br>Work hardening, each additional hour  |
| 97750 | Physical performance measurement with written report,<br>each 15 minutes; Physical performance test with written<br>report, each 15 minutes   |
| 97755 | Assistive technology assessment with written report, direct one-on-one contact, each 15 minutes   |
| 97760 | Initial orthotic management and training with assessment<br>and fitting of lower extremities and trunk, each 15 minutes;<br>Initial orthotic management and training with assessment<br>and fitting of lower extremities, each 15 minutes; Initial<br>orthotic management and training with assessment and<br>fitting of lower extremity and trunk, each 15 minutes; Initial<br>orthotic management and training with assessment and<br>fitting of lower extremity, each 15 minutes; Initial<br>orthotic management and training with assessment and<br>fitting of lower extremity, each 15 minutes; Initial orthotic<br>management and training with assessment and fitting of<br>trunk, each 15 minutes; Initial orthotic management and<br>training with assessment and fitting of upper and lower<br>extremities and trunk, each 15 minutes |
|       | Initial prosthetic training of lower extremities, each 15<br>minutes;   |
|       | Initial prosthetic training of lower extremity, each 15 minutes   |

|       | each 15 minutes;<br>Initial prosthetic training of upper extremities, each 15             |
|-------|---|
|       | minutes;  |
|       | Initial prosthetic training of upper extremity, each 15                                   |
|       | minutes   |
|       | Subsequent orthotic management and training of lower                                      |
|       | extremities and trunk, each 15 minutes  |
|       | Subsequent orthotic management and training of lower                                      |
|       | extremity and trunk, each 15 minutes  |
|       | Subsequent orthotic management and training of lower extremity, each 15 minutes           |
|       | Subsequent orthotic management and training of upper                                      |
|       | and lower extremities and trunk, each 15 minutes  |
|       | Subsequent orthotic management and training of upper                                      |
|       | extremities and trunk, each 15 minutes  |
|       | Subsequent orthotic management and training of upper                                      |
|       | extremities, each 15 minutes  |
|       | Subsequent orthotic management and training of upper extremity and trunk, each 15 minutes |
|       | Subsequent orthotic management and training of upper                                      |
|       | extremity, each 15 minutes  |
|       | Subsequent orthotic management of lower extremities and trunk, each 15 minutes            |
|       | Subsequent orthotic management of lower extremity and trunk, each 15 minutes              |
|       | Subsequent orthotic management of lower extremity, each<br>15 minutes                     |
|       | Subsequent orthotic management of upper and lower   |
|       | extremities and trunk, each 15 minutes  |
|       | Subsequent orthotic management of upper extremities                                       |
|       | and trunk, each 15 minutes  |
|       | Subsequent orthotic management of upper extremities,                                      |
|       | each 15 minutes   |
|       | Subsequent orthotic management of upper extremity and                                     |
|       | trunk, each 15 minutes  |
|       | Subsequent orthotic management of upper extremity, each<br>15 minutes                     |
| 97763 | Subsequent orthotic training of lower extremity, each 15                                  |
|       |   |

| minutes   |
|---|
| Subsequent orthotic training of upper and lower extremities                                   |
| and trunk, each 15 minutes  |
| Subsequent orthotic training of upper extremities and trunk,                                  |
| each 15 minutes   |
| Subsequent orthotic training of upper extremities, each 15                                    |
| minutes   |
| Subsequent orthotic training of upper extremity and trunk,                                    |
| each 15 minutes   |
| Subsequent orthotic training of upper extremity, each 15                                      |
| minutes   |
| Subsequent prosthetic management and training of lower extremities and trunk, each 15 minutes |
| Subsequent prosthetic management and training of lower  |
| extremity and trunk, each 15 minutes  |
| Subsequent prosthetic management and training of lower  |
| extremity, each 15 minutes  |
| Subsequent prosthetic management and training of upper  |
| and lower extremities and trunk, each 15 minutes  |
| Subsequent prosthetic management and training of upper  |
| extremities and trunk, each 15 minutes  |
| Subsequent prosthetic management and training of upper  |
| extremities, each 15 minutes  |
| Subsequent prosthetic management and training of upper  |
| extremity and trunk, each 15 minutes  |
| Subsequent prosthetic management and training of upper  |
| extremity, each 15 minutes  |
| Subsequent prosthetic management of lower extremities   |
| and trunk, each 15 minutes  |
| Subsequent prosthetic management of lower extremity   |
| and trunk, each 15 minutes  |
| Subsequent prosthetic management of lower extremity,  |
| each 15 minutes   |
| Subsequent prosthetic management of upper and lower   |
| extremities and trunk, each 15 minutes  |
| Subsequent prosthetic management of upper extremities   |
| and trunk, each 15 minutes  |
| Subsequent prosthetic management of upper extremities,  |

|       | each 15 minutes   |
|-------|---|
|       | Subsequent prosthetic management of upper extremity                                 |
|       | and trunk, each 15 minutes  |
|       | Subsequent prosthetic management of upper extremity,                                |
|       | each 15 minutes   |
|       | Subsequent prosthetic training of lower extremity, each 15                          |
|       | minutes   |
|       | Subsequent prosthetic training of upper and lower                                   |
|       | extremities and trunk, each 15 minutes  |
|       | Subsequent prosthetic training of upper extremities and                             |
|       | trunk, each 15 minutes  |
|       | Subsequent prosthetic training of upper extremities, each<br>15 minutes             |
|       | Subsequent prosthetic training of upper extremity and trunk, each 15 minutes        |
|       | Subsequent prosthetic training of upper extremity, each 15<br>minutes               |
|       | Subsequent orthotic management and training of lower                                |
|       | extremities, each 15 minutes  |
|       | Subsequent orthotic management of lower extremities,                                |
|       | each 15 minutes<br>Subaguant arthetic training of lower avtromitics and trunk       |
|       | Subsequent orthotic training of lower extremities and trunk, each 15 minutes        |
|       | Subsequent orthotic training of lower extremities, each 15                          |
|       | minutes   |
|       | Subsequent orthotic training of lower extremity and trunk,<br>each 15 minutes       |
|       | Subsequent prosthetic management and training of lower extremities, each 15 minutes |
|       | Subsequent prosthetic management of lower extremities,<br>each 15 minutes           |
|       | Subsequent prosthetic training of lower extremities and                             |
|       | trunk, each 15 minutes  |
|       | Subsequent prosthetic training of lower extremities, each 15                        |
|       | minutes   |
|       | Subsequent prosthetic training of lower extremity and                               |
|       | trunk, each 15 minutes  |
| 07700 |   |
| 97799 | Unlisted physical medicine/rehabilitation service or                                |

|       | procedure  |
|-------|--|
| 420   | Physical Therapy   |
| 421   | Physical Therapy: Visit Charge   |
| 422   | Physical Therapy: Hourly Charge  |
| 423   | Physical Therapy: Group Rate   |
| 424   | Physical Therapy: Evaluation/Re-evaluation   |
| 429   | Physical Therapy: Other Physical Therapy   |
| 97163 | Evaluation of physical therapy, typically 45 minutes                                 |
| 97161 | Evaluation of physical therapy, typically 20 minutes                                 |
| 97162 | Evaluation of physical therapy, typically 30 minutes                                 |
| 97168 | Re-evaluation of occupational therapy established plan of care, typically 30 minutes |
| 97165 | Evaluation of occupational therapy, typically 30 minutes                             |
| 97166 | Evaluation of occupational therapy, typically 45 minutes                             |
| 97167 | Evaluation of occupational therapy established plan of care, typically 60 minutes    |
| G0151 | Hhcp-serv of pt,ea 15 min  |

\*Default codes for suggested services

#### Service: Home Health Care

#### **General Guidelines**

- Units, Frequency, & Duration: None.
- Criteria for Subsequent Requests: None.
- **Recommended Clinical Approach:** Home health care is rarely recommended for postoperative care.
- Exclusions: None.

#### **Medical Necessity Criteria**

Indications

- → Home health care may be appropriate if ALL of the following are TRUE:
  - The patient lives with those that are unable to care for the patient postoperatively.
  - The patient's surgery was a discectomy, decompression, or lumbar spinal fusion.

**Non-Indications** 

None.

Site of Service Criteria

Home

| HCPCS Code | Code Description/Definition  |
|------------|--|
| 99509      | Home visit for assistance with activities of daily living and personal care  |
| 99600      | Unlisted home visit procedure; Unlisted home visit service   |
| 99334      | Level 1 rest home visit for evaluation and management of<br>established patient with minor and/or self-limited<br>problem, including problem-focused interval history and<br>physical examination, and straightforward medical<br>decision-making, typical time with patient, family, and/or<br>caregiver 15 minutes |
| G0129      | Partial hosp prog service  |
| G0283      | Elec stim other than wound   |

#### Service: Inpatient Rehabilitation

#### <u>General Guidelines</u>

- Units, Frequency, & Duration: None.
- Criteria for Subsequent Requests: None.
- **Recommended Clinical Approach:** Inpatient rehabilitation may be indicated for postoperative care in cases where outpatient physical therapy and home health care are not appropriate.
- Exclusions: None.

#### **Medical Necessity Criteria**

Indications

- → Inpatient rehabilitation may be appropriate if ANY of the following is TRUE:
  - A neurologic deficit occurs postoperatively.
  - There are postoperative complications.
  - The patient does not have others to take care of them at home and ALL of the following:
    - Had surgery related to their lumbar radiculopathy diagnosis.

Non-Indications

None.

Site of Service Criteria

Hospital

| HCPCS Code | Code Description/Definition   |
|------------|---|
| 99221      | Level 1 initial hospital care for evaluation and<br>management of patient with problem of low severity,<br>including comprehensive history and physical<br>examination, and medical decision-making of low<br>complexity, typical time 30 minutes; Level 1 initial hospital<br>care for evaluation and management of patient with<br>problem of low severity, including detailed history and<br>physical examination, and straightforward medical<br>decision-making, typical time 30 minutes |

| 99222 | Level 2 initial hospital care for evaluation and<br>management of patient with problem of moderate<br>severity, including comprehensive history and physical<br>examination, and medical decision-making of moderate<br>complexity, typical time 50 minutes  |
|-------|--|
| 99223 | Level 3 initial hospital care for evaluation and<br>management of patient with problem of high severity,<br>including comprehensive history and physical<br>examination, and medical decision-making of high<br>complexity, typical time 70 minutes  |
| 99231 | Level 1 subsequent hospital care for evaluation and<br>management of patient, including detailed history and<br>physical examination, and medical decision-making of<br>low complexity, typical time 15 minutes; Level 1 subsequent<br>hospital care for evaluation and management of patient,<br>including detailed history and physical examination, and<br>straightforward medical decision-making, typical time 15<br>minutes  |
| 99232 | Level 2 subsequent hospital care for evaluation and<br>management of patient, including expanded<br>problem-focused interval history and medical<br>decision-making of moderate complexity, typical time 25<br>minutes; Level 2 subsequent hospital care for evaluation<br>and management of patient, including expanded<br>problem-focused interval history and physical<br>examination, and medical decision-making of moderate<br>complexity, typical time 25 minutes; Level 2 subsequent<br>hospital care for evaluation and management of patient,<br>including expanded problem-focused interval history and<br>physical examination, typical time 25 minutes; Level 2<br>subsequent hospital care for evaluation and<br>management of patient, including expanded<br>problem-focused physical examination and medical<br>decision-making of moderate complexity, typical time 25<br>minutes |
| 99233 | Level 3 subsequent hospital care for evaluation and<br>management of patient, including detailed interval history<br>and medical decision making of moderate complexity,<br>typical time 35 minutes; Level 3 subsequent hospital care<br>for evaluation and management of patient, including<br>detailed interval history and physical examination, and  |

| medical decision making of moderate complexity, typical<br>time 35 minutes; Level 3 subsequent hospital care for<br>evaluation and management of patient, including<br>detailed interval history and physical examination, typical |
|--|
| time 35 minutes; Level 3 subsequent hospital care for<br>evaluation and management of patient, including<br>detailed physical examination and medical decision<br>making of moderate complexity, typical time 35 minutes           |

#### Service: Skilled Nursing Facility

#### **General Guidelines**

- Units, Frequency, & Duration: None.
- Criteria for Subsequent Requests: None.
- **Recommended Clinical Approach:** May be indicated for post-operative care in cases where the site of surgery occurred at an inpatient hospital and outpatient physical therapy or home health care are not indicated.
- Exclusions: None.

#### **Medical Necessity Criteria**

Indications

- → Skilled Nursing Facility is considered appropriate if ANY of the following is TRUE:
  - A neurologic deficit occurs postoperatively.
  - There are postoperative complications.
  - The patient does not have others to take care of them at home and ALL of the following:
    - Had surgery related to their lumbar radiculopathy diagnosis.

Non-Indications

None.

Skilled nursing facility (SNF)

| HCPCS Code | Code Description/Definition   |
|------------|---|
| 99304      | Level 1 initial nursing facility care for evaluation and<br>management of patient with problem of low severity,<br>including comprehensive history and physical<br>examination, and medical decision-making of low<br>complexity, typical time 25 minutes; Level 1 initial nursing<br>facility care for evaluation and management of patient<br>with problem of low severity, including detailed history<br>and physical examination, and straightforward medical<br>decision-making, typical time 25 minutes |

| 99305 | Level 2 initial nursing facility care for evaluation and<br>management of patient with problem of moderate<br>severity, including comprehensive history and physical<br>examination, and medical decision-making of moderate<br>complexity, typical time 35 minutes  |
|-------|--|
| 99306 | Level 3 initial nursing facility care for evaluation and<br>management of patient with problem of high severity,<br>including comprehensive history and physical<br>examination, and medical decision-making of high<br>complexitym typical time 45 minutes  |
| 99307 | Level I subsequent nursing facility care for evaluation and<br>management of patient, including problem-focused<br>interval history and physical examination, and<br>straightforward medical decision-making, typical time 10<br>minutes; Level I subsequent nursing facility care for<br>evaluation and management of patient, including<br>problem-focused interval history and physical<br>examination, typical time 10 minutes; Level I subsequent<br>nursing facility care for evaluation and management of<br>patient, including problem-focused interval history and<br>straightforward medical decision-making, typical time 10<br>minutes; Level I subsequent nursing facility care for<br>evaluation and management of patient, including<br>problem-focused physical examination and<br>straightforward medical decision-making, typical time 10<br>minutes; Level I subsequent nursing facility care for<br>evaluation and management of patient, including<br>problem-focused physical examination and<br>straightforward medical decision-making, typical time 10<br>minutes |
| 99308 | Level 2 subsequent nursing facility care for evaluation and<br>management of patient, including expanded<br>problem-focused interval history and medical<br>decision-making of low complexity, typical time 15<br>minutes; Level 2 subsequent nursing facility care for<br>evaluation and management of patient, including<br>expanded problem-focused interval history and physical<br>examination, and medical decision-making of low<br>complexity, typical time 15 minutes; Level 2 subsequent<br>nursing facility care for evaluation and management of<br>patient, including expanded problem-focused interval<br>history and physical examination, typical time 15 minutes;<br>Level 2 subsequent nursing facility care for evaluation and<br>management of patient, including expanded<br>problem-focused physical examination and medical<br>decision-making of low complexity, typical time 15   |

|       | minutes  |
|-------|--|
| 99309 | Level 3 subsequent nursing facility care for evaluation and<br>management of patient, including detailed interval history<br>and medical decision-making of moderate complexity,<br>typical time 25 minutes; Level 3 subsequent nursing<br>facility care for evaluation and management of patient,<br>including detailed interval history and physical<br>examination, and medical decision-making of moderate<br>complexity. typical time 25 minutes; Level 3 subsequent<br>nursing facility care for evaluation and management of<br>patient, including detailed interval history and physical<br>examination, typical time 25 minutes; Level 3 subsequent<br>nursing facility care for evaluation and management of<br>patient, including detailed physical examination and<br>medical decision-making of moderate complexity, typical<br>time 25 minutes         |
| 99310 | Level 4 subsequent nursing facility care for evaluation and<br>management of patient, including comprehensive interval<br>history and medical decision-making of high complexity,<br>typical time 35 minutes; Level 4 subsequent nursing<br>facility care for evaluation and management of patient,<br>including comprehensive interval history and physical<br>examination, and medical decision-making of high<br>complexity, typical time 35 minutes; Level 4 subsequent<br>nursing facility care for evaluation and management of<br>patient, including comprehensive interval history and<br>physical examination, typical time 35 minutes; Level 4<br>subsequent nursing facility care for evaluation and<br>management of patient, including comprehensive<br>physical examination and medical decision-making of<br>high complexity, typical time 35 minutes |
| 99315 | Nursing facility discharge day management, 30 minutes or less  |
| 99316 | Nursing facility day management, more than 30 minutes  |
| G0128 | Corf skilled nursing service   |

## **Other Services**

#### Service: Bracing

#### **General Guidelines**

- Units, Frequency, & Duration: None.
- Criteria for Subsequent Requests: None.
- **Recommended Clinical Approach:** Bracing may be appropriate postoperatively. Bracing is not recommended preoperatively without a fracture.
- Exclusions: None.

#### **Medical Necessity Criteria**

Indications

- $\rightarrow$  **Bracing** is considered appropriate if **ANY** of the following are **TRUE**<sup>32</sup>:
  - Bracing may be appropriate postoperatively.
  - The patient has a fracture.

**Non-Indications** 

→ Bracing is not considered appropriate if ANY of the following are TRUE:
 ◆ Bracing is not recommended preoperatively without a fracture.

Site of Service Criteria

None.

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Procedure Codes (HCPCS/CPT)
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None.

# References

- 1. Washington State Healthcare Authority Health Technology Assessment Program AAOS, AANS AANS/CNS Section on DSPN, CNS, ISASS, NASS and WSANS. Responses to Key Questions for Washington State Health Care Authority Health Technology Assessment of Surgery for Symptomatic Lumbar Radiculopathy. November 2017.
- 2. Kreiner DS, Hwang SW, Easa JE, et al. An evidence-based clinical guideline for the diagnosis and treatment of lumbar disc herniation with radiculopathy. *Spine J.* 2014;14(1):180-191.
- 3. Alexander CE, Varacallo M. Lumbosacral Radiculopathy. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2021. https://www.ncbi.nlm.nih.gov/books/NBK430837/.
- 4. Berry J, Elia C, Saini H, Miulli D. A Review of Lumbar Radiculopathy, Diagnosis, and Treatment https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6858271/. Published 2019. Accessed April 20, 2020.
- 5. Willhuber G, Piuzzi N. Straight Leg Raise Test. Ncbi.nlm.nih.gov. https://www.ncbi.nlm.nih.gov/books/NBK539717/. Published 2020. Accessed April 21, 2020.
- 6. Maitland GD. The slump test: Examination and treatment. Austr J Physiother, 1985; 31: 215-219.
- Majlesi J, Togay H, Unalan H, Toprak S. The sensitivity and specificity of the Slump and the Straight Leg Raising tests in patients with lumbar disc herniation. J Clin Rheumatol, 2008; 14: 87–91.
- 8. Panjabi MM, White AA 3rd. Basic biomechanics of the spine. Neurosurgery. 1980;7(1):76-93. doi:10.1227/00006123-198007000-00014
- 9. Coster S, de Bruijn SFTM, Tavy DLJ. Diagnostic value of history, physical examination and needle electromyography in diagnosing lumbosacral radiculopathy. *J Neurol.* 2010;257(3):332–337. doi:10.1007/s00415-009-5316-y
- 10. Fager, C.A., Observations on spontaneous recovery from intervertebral disc herniation. Surg Neurol, 1994. 42(4): p. 282–6.
- 11. Weber, H., I. Holme, and E. Amlie, The natural course of acute sciatica with nerve root symptoms in a double-blind placebo-controlled trial evaluating the effect of piroxicam. Spine (Phila Pa 1976), 1993. 18(11): p. 1433-8.
- 12. American College of Radiology. ACR Appropriateness Criteria Low Back Pain. ACR.org. Revised 2021.
- Ghadimi M, Sapra A. Magnetic Resonance Imaging (MRI), Contraindications. Ncbi.nlm.nih.gov. https://www.ncbi.nlm.nih.gov/ books/NBK551669/. Published 2020.

- 14. American College of Radiology. ACR-SPR PRACTICE PARAMETER FOR IMAGING PREGNANT OR POTENTIALLY PREGNANT ADOLESCENTS AND WOMEN WITH IONIZING RADIATION. ACR.org. Revised 2018 (Resolution 39).
- 15. ACR Committee on Drugs and Contrast Media. ACR Manual on Contrast Media. ACR.org. 2022.
- 16. Ackerman WE III, Ahmad M. The efficacy of lumbar epidural steroid injections in patients with lumbar disc herniations. *Anesth Analg.* 2007;104(5):1217-22.
- 17. Arden NK, Price C, Reading I, et al. A multicentre randomized controlled trial of epidural corticosteroid injections for sciatica: the WEST study. *Rheumatology (Oxford).* 2005;44(11):1399–1406.
- 18. Briggs VG, Li W, Kaplan MS, Eskander MS, Franklin PD. Injection treatment and back pain associated with degenerative lumbar spinal stenosis in older adults. *Pain Physician.* 2010;13(6):E347-55.
- 19. Buttermann GR. The effect of spinal steroid injections for degenerative disc disease. *Spine J.* 2004;4(5):495–505.
- 20. Candido KD, Raghavendra MS, Chinthagada M, Badiee S, Trepashko DW. A prospective evaluation of iodinated contrast flow patterns with fluoroscopically guided lumbar epidural steroid injections: the lateral parasagittal interlaminar epidural approach versus the transforaminal epidural approach. *Anesth Analg.* 2008;106(2):638-44.
- 21. Furman MB, Kothari G, Parikh T, Anderson JG, Khawaja A. Efficacy of fluoroscopically guided, contrast-enhanced lumbosacral interlaminar epidural steroid injections: a pilot study. *Pain Med.* 2010;11(9):1328-34.
- 22. Kim D, Brown J. Efficacy and safety of lumbar epidural dexamethasone versus methylprednisolone in the treatment of lumbar radiculopathy: a comparison of soluble versus particulate steroids. *Clin J Pain.* 2011;27(6):518-522.
- 23. Lee JH, Moon J, Lee SH. Comparison of effectiveness according to different approaches of epidural steroid injection in lumbosacral herniated disk and spinal stenosis. *J Back Musculoskelet Rehabil.* 2009;22(2):83-89.
- 24. Manchikanti L, Cash KA, McManus CD, Pampati V, Benyamin RM. Fluoroscopic lumbar interlaminar epidural injections in managing chronic lumbar axial or discogenic pain. *J Pain Res.* 2012;5:301-11.
- 25. Manchikanti L, Cash KA, McManus CD, Pampati V, Benyamin RM. Preliminary results of a randomized, double-blind, controlled trial of fluoroscopic lumbar interlaminar epidural injections in managing chronic lumbar discogenic pain without disc herniation or radiculitis. *Pain Physician.* 2010;13(4):E279-92.
- 26. Manchikanti L, Cash KA, McManus CD, Pampati V, Fellows B. Fluoroscopic caudal epidural injections with or without steroids in managing pain of lumbar spinal stenosis: one year results of randomized, double-blind, active-controlled trial. *J Spinal Disord Tech.* 2012;25(4):226-34.

- 27. John MacVicar, MB, ChB, Wade King, MB, BS, Milton H. Landers, DO, PhD, Nikolai Bogduk, MD, The Effectiveness of Lumbar Transforaminal Injection of Steroids: A Comprehensive Review with Systematic Analysis of the Published Data, Pain Medicine, Volume 14, Issue 1, January 2013, Pages 14–28, https://doi.org/10.1111/j.1526-4637.2012.01508.x
- 28. Manchikanti L, Singh V, Cash KA, Pampati V, Datta S. Management of pain of post lumbar surgery syndrome: one-year results of a randomized, double-blind, active controlled trial of fluoroscopic caudal epidural injections. *Pain Physician*. 2010;13(6):509-21.
- 29. Park CH, Lee SH, Kim BI. Comparison of the effectiveness of lumbar transforaminal epidural injection with particulate and nonparticulate corticosteroids in lumbar radiating pain. *Pain Med.* 2010;11(11):1654–1658.
- 30.Samuel AM, Moore HG, Cunningham ME. Treatment for Degenerative Lumbar Spondylolisthesis: Current Concepts and New Evidence. Curr Rev Musculoskelet Med. 2017;10(4):521–529. doi:10.1007/s12178-017-9442-3
- Smorgick Y, Park DK, Baker KC, et al. Single- versus multilevel fusion for single-level degenerative spondylolisthesis and multilevel lumbar stenosis: four-year results of the spine patient outcomes research trial. Spine (Phila Pa 1976). 2013;38(10):797-805. doi:10.1097/BRS.0b013e31827db30f
- 32. Madera M, Brady J, Deily S, et al. The role of physical therapy and rehabilitation after lumbar fusion surgery for degenerative disease: a systematic review. Journal of Neurosurgery: Spine SPI. 2017;26(6):694-704. doi:10.3171/2016.10.SPINE16627

# Clinical Guideline Revision History/Information

| Original Date: September 1, 2020 |   |  |
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| Review History                   |   |  |
| April 21, 2021 (V.1 – V.5)       | Approving Physician: Dr. Brian Covino   |  |
| November 3, 2021 (V.6)           | <b>Reviewing Physician:</b> Dr. Vijay<br>Yanamadala<br><b>Approving Physician:</b> Dr. Brian Covino   |  |
| December 29, 2022 (V.7)          | <b>Reviewing Physician:</b> Dr. Vijay<br>Yanamadala<br><b>Approving Physician:</b> Dr. Traci Granston |  |