

Spinal Epidural Steroid Injections

MEDICAL POLICY NUMBER: 14

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INSTRUCTIONS FOR USE: Company Medical Policies serve as guidance for the administration of plan benefits. Medical policies do not constitute medical advice nor a guarantee of coverage. Company Medical Policies are reviewed annually and are based upon published, peer-reviewed scientific evidence and evidence-based clinical practice guidelines that are available as of the last policy update. The Company reserves the right to determine the application of medical policies and make revisions to medical policies at any time. The scope and availability of all plan benefits are determined in accordance with the applicable coverage agreement. Any conflict or variance between the terms of the coverage agreement and Company Medical Policy will be resolved in favor of the coverage agreement. Coverage decisions are made on the basis of individualized determinations of medical necessity and the experimental or investigational character of the treatment in the individual case. In cases where medical necessity is not established by policy for specific treatment modalities, evidence not previously considered regarding the efficacy of the modality that is presented shall be given consideration to determine if the policy represents current standards of care.

SCOPE: Providence Health Plan, Providence Health Assurance and Providence Plan Partners as applicable (referred to individually as “Company” and collectively as “Companies”).

PLAN PRODUCT AND BENEFIT APPLICATION

Commercial

Medicaid/OHP*

Medicare**

*Medicaid/OHP Members

Oregon: Services requested for Oregon Health Plan (OHP) members follow the OHP Prioritized List and Oregon Administrative Rules (OARs) as the primary resource for coverage determinations. Medical policy criteria below may be applied when there are no criteria available in the OARs and the OHP Prioritized List.

Transforaminal epidural steroid injections, or diagnostic anesthetic injections, cervical and thoracic spine: Excluded Services Guideline E1 and Excluded Services Guideline E2

Intrathecal or Epidural Drug Infusion: Guideline Note 170

**Medicare Members

This *Company* policy may be applied to Medicare Plan members only when directed by a separate *Medicare* policy. Note that investigational services are considered “**not medically necessary**” for Medicare members.

COVERAGE CRITERIA

Initial Injection(s)

- I. Epidural steroid injections (ESIs) performed with imaging guidance (e.g., CT, fluoroscopy) may be considered **medically necessary** when **all** of the following criteria (A.- G.) are met:
 - A. A detailed neurologic examination, performed in-office within the last 3 months, documents radiculopathy (see [Policy Guidelines](#)); **and**
 - B. Persistent, debilitating, radicular pain (see [Policy Guidelines](#)) and any of the following criteria are met (1.-3.):
 1. Documented moderate to severe interference of radicular pain with age-appropriate activities of daily living (see [Policy Guidelines](#)); **or**
 2. For thoracic/lumbar ESIs, moderate to severe disability as measured by the Oswestry Disability Index (i.e. 21%-60%) (see [Policy Guidelines](#) for complete definition); **or**
 3. For cervical ESIs, moderate to severe disability as measured by the Neck Disability Index (i.e. 15 points or higher on Neck Disability Index) (see [Policy Guidelines](#) for complete definition); **and**
 - C. Patient meets **at least one** of the following (1.-2.) criteria:
 1. Advanced imaging (MRI or CT) identifying **either** of the following (a.-b.):

- a. Foraminal or lateral recess stenosis which may be causing nerve root impingement and/or demonstrated nerve contact; **or**
 - b. Disc protrusion which may be causing nerve root impingement and/or demonstrated nerve contact; **or**
 - 2. Electrodiagnostic study showing radiculopathy (see [Policy Guidelines](#)); **and**
 - D. There is corresponding dermatomal distribution of the radicular pain; **and**
 - E. Symptoms have failed to respond to 4 weeks of conservative treatment (see [Policy Guidelines](#) for all requirements and exceptions) *within* the last 6 months before the initial treatment, including both of the following (1.-2.):
 - 1. Physical therapy including either one the following (a.-b.)
 - a. At least 3 physical therapy visits (including active muscle conditioning) over a course of 6 weeks or less; **or**
 - b. Physical therapist's notes, or a physician's statement in the documentation explaining why physical therapy is contraindicated (e.g. progressively worsening pain and disability); **and**
 - 2. Documented medication usage (e.g. narcotic analgesics, muscle relaxants, non-steroidal anti-inflammatory drugs) or participation in an interdisciplinary pain management program; **and**
 - F. The injection is targeted to the impingement and/or contact point; **and**
 - G. No more than the maximum number of nerve root levels per session is performed (1.-2.):
 - 1. Caudal and interlaminar: No more than 1 level per session may be performed and not in conjunction with an transforaminal injection.
 - 2. Transforaminal: No more than 2 transforaminal ESIs may be performed at a single setting (e.g. single level bilaterally or two nerve root levels unilaterally)
- II. Epidural steroid injections are considered **not medically necessary** when criterion I. above is not met.

Repeat Injection(s)

- III. Repeat epidural steroid injection(s) (see [Policy Guidelines](#) for definition) may be considered **medically necessary** when **all** of the following criteria are met (A.-C.):
- A. Criterion I. above is met; **and**
 - B. Documentation that the previous injection(s) resulted in **all** of the following (1.-3.):
 - 1. Greater than 50% radicular pain relief for a minimum of 6 weeks as measured by a standardized rating scale (e.g. Visual Analogue Scale; see [Policy Guidelines](#)); **and**
 - 2. Decreased medication use; **and**
 - 3. Improvement in the patient's activities of daily living (see e.g. [Oswestry Disability Index](#), [Neck Disability Index](#); see [Policy Guidelines](#)); **and**
 - C. Documentation of a formal evaluation, performed in-office, which includes a physical exam and reasons for repeating the injection (see [Documentation Requirements](#)).
- IV. Repeat epidural steroid injections are considered **not medically necessary** when criterion III. above is not met.

Frequency Limitations

- V. No more than 3 sessions (see [Policy Guidelines](#)) per spinal region (cervical, thoracic, lumbar) per 12-month period may be considered **medically necessary**.
- VI. No more than 4 epidural steroid injections per 6-month period, regardless of the number of levels involved, may be considered **medically necessary**.
- VII. No more than 6 epidural steroid injections per 12-month period, regardless of the number of levels involved, may be considered **medically necessary**.

Other Medically Necessary Indications

- VIII. Epidural steroid injections for the treatment of post-herpetic neuralgia may be considered **medically necessary** when there is documentation of recent shingles.

Non-Covered Indications

- IX. Conscious sedation, Monitored Anesthesia Care (MAC), and intraoperative neuromonitoring (IONM) is considered **not medically necessary** when performed with an epidural steroid injection.
- X. Epidural steroid injections performed without imaging guidance (62320, 62322) are considered **not medically necessary**.
- XI. Epidural steroid injections with ultrasound guidance (0228T-0231T) are considered **not medically necessary** for any indication.
- XII. Epidural steroid injections are considered **not medically necessary** for the following indications (A.- I.):
 - A. Back or neck pain without radiculopathy
 - B. Isolated central spinal stenosis
 - C. Chemical radiculitis caused by annular tears
 - D. Post-operative pain relief from spinal fusion and/or discectomy/laminectomy
 - E. Axial low back pain without leg dominant symptoms originating in the nerve roots
 - F. Axial or nonspecific pain without radiating pain, unless involving a nerve root that does not refer to a limb
 - G. Cancer-related pain
 - H. Infection
 - I. Compressive lesions of the spinal cord, conus medullaris or cauda equina.

Link to [Evidence Summary](#)

POLICY CROSS REFERENCES

None

The full Company portfolio of current Medical Policies is available online and can be [accessed here](#).

POLICY GUIDELINES

DOCUMENTATION REQUIREMENTS

The following information must be submitted in order to determine if medical necessity criteria are met:

- Indication for the requested procedure.
- Clinical notes must document that a detailed neurological examination was performed by a qualified provider in the office of the provider performing the injection (e.g., Physician, Physician's Assistant, Nurse Practitioner) within the past 3 months, prior to submitting the request for injection.
 - If the provider performing the injection did not conduct the initial evaluation, they must review the clinical findings and confirm the appropriateness of the procedure prior to performing the injection.
- Clinical documentation of extent and response to conservative care (see [Policy Guidelines](#) for all requirements), as applicable to the policy criteria, including outcomes of any procedural interventions, medication use and physical therapy notes.
- Evaluation and documentation of the extent and specifics of one or more of the functional impairments or disabilities.
- Evaluation and appropriate management of associated cognitive, behavioral or addiction issues if and when present.
- Copy of radiologist's report(s) for diagnostic imaging (MRIs, CTs, etc.) completed within the past 12 months.
 - Imaging must be performed and read by an independent radiologist
 - If discrepancies should arise in the interpretation of the imaging, the radiologist report will supersede.

DEFINITIONS

Activities of daily living: The activities of daily living (ADLs) is a term used to describe essential skills that are required to independently care for oneself.¹ Examples may include, but are not limited to, the following:

- Ambulating
- Feeding
- Dressing
- Personal hygiene
- Transportation and shopping
- Meal preparation
- Housecleaning and home maintenance

Conscious Sedation, Monitored Anesthesia Care (MAC), Intraoperative Monitoring

Conscious sedation, monitored anesthesia care (MAC), and intraoperative neuromonitoring (IONM) is considered not medically necessary and not covered when performed with an epidural steroid injection. Intraoperative neurophysiological testing and monitoring (CPT: 95940; HCPCS: G0453) will deny as not medically necessary when billed with epidural steroid injection codes. See the Intraoperative Monitoring (All Lines of Business Except Medicare) policy for criteria.

Conservative treatments: According to the North American Spine Society, the majority of acute back, neck and radicular pain will improve over 4 weeks. Conservative care must be recent (within the last 6 months) and include all of the following:

- Participation in a physical therapy program for the duration of conservative management for the pertinent issue, including at least 3 physical therapy visits.
- Documented medication usage (e.g. narcotic analgesics, muscle relaxants, non-steroidal anti-inflammatory drugs) or participation in an interdisciplinary pain management program
- Exceptions to waiting 4 weeks should be documented and reviewed on a case-by-case basis. Reasonable exceptions may include but are not limited to the following:²
 - At least moderate to severe pain, with functional loss at work and/or home
 - Pain unresponsive to outpatient medical management
 - Inability to tolerate nonsurgical, noninjection care due to coexisting medical condition(s) (e.g. cardiac disease), or severe pain
 - Prior successful injection therapy for the same condition that achieved greater than 50% pain relief with documented functional improvement, reduced impairment or decrease in analgesic medication.

Maximum number of nerve root levels that may be performed in one session:*

- **Caudal and interlaminar:** No more than 1 level per session may be performed and **not** in conjunction with a transforaminal injection.
- **Transforaminal:** No more than 2 transforaminal injections may be performed at a single setting (e.g. single level bilaterally or two nerve root levels unilaterally).

**A session is defined as 1 date of service in which injection(s) are performed.*

Neck Disability Index: The Neck Disability Index (NDI) is a modification of the Oswestry Disability Index, and is used by clinicians and researchers to quantify neck pain.³ Patients self-report scores across 10 categories, including pain intensity, personal care, lifting, reading, headaches, concentration, work, driving, sleeping and recreation. Each section is scored on a 6-point scale ranging from 0 (“no pain”) to 5 (“worst imaginable pain”).

- Scoring
 - 0-4 points (0-8%) no disability,
 - 5-14 points (10 – 28%) mild disability,
 - 15-24 points (30-48%) moderate disability,
 - 25-34 points (50- 64%) severe disability,
 - 35-50 points (70-100%) complete disability

Oswestry Disability Index: The Oswestry Disability Index (ODI) is an index derived from the Oswestry Low Back Pain Questionnaire used by clinicians and researchers to quantify disability for low back pain.⁴ The questionnaire contains ten topics concerning intensity of pain, lifting, ability to care for oneself, ability to walk, ability to sit, sexual function, ability to stand, social life, sleep quality, and ability to travel. Each question is scored by the patient on a scale of 0-5 (least amount of disability to most severe disability). Scores are then added and then doubled to obtain the index (range 0 to 100).

- Scoring
 - 0%–20%: Minimal disability
 - 21%–40%: Moderate disability
 - 41%–60%: Severe disability
 - 61%–80%: Crippling back pain
 - 81%–100%: Patients are either bed-bound or have an exaggeration of their symptoms

Persistent, debilitating pain: Persistent, debilitating (or disabling) pain is defined as significant level of pain on a daily basis defined on a Visual Analog Scale as greater than “5” (moderate). The scale ranges from “0” (no pain) to “10” (as bad as it could be).

Radiculopathy: Dysfunction of a nerve root associated with pain, sensory impairment, weakness, or diminished deep tendon reflexes in a nerve root distribution.⁵ Signs and symptoms of radiculopathy must be confirmed by imaging studies and may include any of the following:

- Pain that radiates into the distal portion of the extremities following the nerve root distribution for the proposed intervention
- Numbness and tingling in a dermatomal distribution
- Muscular weakness in a pattern associated with spinal nerve root compression
- Increased or abnormal reflexes corresponding to affected nerve root level
- Loss of sensation in a dermatomal pattern.

Repeat injections: Repeat injections refer to injections performed via the same method (e.g. interlaminar, caudal) and at the same location as a prior injection. Injections performed via a different method and/or at a different location are considered “initial injections.”

In a patient who has had a prior epidural steroid injection and there has been a change in history, physical exam, and/or imaging findings, “initial injection” criteria should be applied, not “repeat injection” criteria, for the proposed level. Repeat ESI criteria assumes that there has been no change in history, physical exam, or imaging since the prior ESI.

BACKGROUND

Epidural Steroid Injections

Epidural steroids injections (ESIs) involve the placement of steroids into the epidural space to decrease lower back pain or neck pain associated with radicular symptoms. Epidural injections can be performed by the translaminar approach (via the interlaminar space in the spine), the transforaminal approach (through the neuroforamen dorsal to the nerve root), or the caudal approach (through the sacral hiatus at the sacral canal).⁶

Low Back Pain

Low back pain is a major cause of disability in adults, occurring in 15% to 20% of the working-age population annually and 80% of adults at some point in their lives. Most occurrences of low back pain resolve without intervention, approximately 10% of the cases do not respond to conservative treatment and are associated with chronic and disabling pain.

Radiculopathy

Radiculopathy, often referred to as a “pinched nerve,” is a pathologic process wherein a nerve in the cervical, lumbar or thoracic spine is compressed or irritated. This often occurs as a result of degenerative changes, which may lead to bone spurs or herniated discs. Symptoms include pain, numbness, or weakness radiating from anywhere from the neck into the shoulder, arm, hand or fingers.⁷

Spinal Stenosis

Spinal stenosis is predominantly caused by degeneration in the intervertebral discs, ligaments and bone structures of the spine, and is characterized by a narrowing of the spinal canal, lateral spinal recesses and compressed neural elements in the lower back, resulting in pain and disability.

Sciatica

Sciatica refers to pain that radiates along sciatic nerve, branching from the lower back through the hips, buttocks and legs. Sciatica most commonly occurs as the result of a herniated disc, degenerative disc disease or spinal stenosis compressing part of the nerve. Symptoms include inflammation, pain and numbness in the affected leg.

Post-herpetic neuralgia

Post-herpetic neuralgia is the most common complication of shingles, occurring when nerve fibers are damaged during an outbreak of shingles, resulting in chronic pain.

Chemical radiculitis caused by annular tears

The annulus refers to the outer ring of fibers surrounding intervertebral discs, which connect vertebral bones. An annular tear occurs when the annulus is torn or ruptured, with no accompanying rupture to the disc material itself. Chemical radiculitis refers to the inflammation of the nerve root due to an annular tear and the dissemination of disc fluid along the nerve root sheath, evoking antibody response and an auto-immune reaction. It has been suggested that symptoms of low back pain and radiating leg pain, not identifiable by MRI or CT, could be explained by the irritating effects of chemical mediators leaking through annular tears.^{8,9}

Post-operative pain relief from spinal fusions or discectomy/laminectomy

Spinal fusion refers to surgery that eliminates motion between two or more vertebrae in the spine by fusing them together. Bone grafts are placed around the spine during surgery, around which the body heals, thereby joining the vertebrae together. Discectomy refers to the surgical removal of part, or the entirety of an intervertebral disc that is pressing on a nerve root or the spinal cord. Before the disc

material is removed, a small piece of bone (the lamina) from the affected vertebra may also be removed, allowing access to the spinal cord, and/or to relieve pressure on nerves (i.e. laminectomy).

REGULATORY STATUS

U.S. FOOD AND DRUG ADMINISTRATION (FDA)

Approval or clearance by the Food and Drug Administration (FDA) does not in itself establish medical necessity or serve as a basis for coverage. Therefore, this section is provided for informational purposes only.

Injectable corticosteroids (e.g., prednisone, dexamethasone) are approved by the FDA; however, the safety and effectiveness of corticosteroids for injection into the epidural space has not been established or approved by the FDA.

In April 2014, the FDA warned that injection of corticosteroids into the epidural space of the spine may result in rare but serious adverse events.¹⁰ To raise awareness of the risks and in an ongoing effort to investigate this issue, the FDA convened an Advisory Committee meeting of external experts. The committee published “Safeguards to prevent neurologic complications after epidural steroid injections: consensus opinions from a multidisciplinary working group and national organizations.”¹¹ This includes 17 statements and clinical considerations recommended and endorsed by the working group to prevent adverse events during ESI.

CLINICAL EVIDENCE AND LITERATURE REVIEW

EVIDENCE REVIEW

A review of the ECRI, Hayes, Cochrane, and PubMed databases was conducted regarding the use of epidural steroid injection (ESI) as a diagnostic tool or treatment for back and neck pain. Below is a summary of the available evidence identified through November 2025.

Medically Necessary Indications

Cervical Radiculopathy

In 2022, Hayes evaluated the safety and efficacy of epidural steroid injections (ESIs) for the treatment of cervical radiculopathy.¹² Searching the literature through January 2019, Hayes included 7 publications (including 6 RCTs) for review. Sample sizes ranged from 38 to 120. Follow-up times ranged from 3 weeks to 2 years. Outcomes of interest were pain, function, opioid use and symptom relief duration.

Three studies reported no difference in pain between ESIs and anesthetic injection alone at up to 2-year follow-up. Across individual studies, patients receiving autologous conditioned serum (ACS) injections and percutaneous epidural neuroplasty (PEN) reported superior pain outcomes compared to patients receiving ESI. No difference in pain was reported between ESI patients and patients receiving pulsed radiofrequency (RF). No difference in function was found between patients receiving ESI and either

anesthetic injection alone, PEN or pulsed RF, although ACS patients experienced comparatively superior outcomes. Two studies assessed opioid use in patients receiving ESI or anesthetic injection alone and found no differences. One study found greater duration of symptom relief in PEN patients compared to ESI patients. While adverse events (AEs) across studies were typically minor, serious AEs outside of the reviewed studies have occurred, including paraplegia, meningitis, and epidural abscess. Hayes assessed the overall quality of evidence as “low.” Limitations among reviewed studies included the lack of placebo-controlled trials, lack of follow-up beyond 2 years, lack of patient selection criteria and treatment parameters (e.g. injection route, type of steroid, type of anesthetic), and the difficulty of definitively establishing efficacy given the variation in the underlying causes of radicular pain and in ESI approaches. Hayes concluded that alternative “poorly investigated” treatments, such as ACS and PEN, may improve long-term pain and function outcomes compared to ESI. Hayes ultimately assigned a “D1” rating (no proven benefit) for ESI use in adults with cervical radiculopathy noting the low-quality but consistent evidence indicating ESI’s lack of beneficial effect on pain or disability stemming from cervical radiculopathy compared with epidural injections of anesthetic alone.

Lumbar Radiculopathy

In 2011 (updated 2016), the Washington State Health Care Authority conducted a systematic review and meta-analysis evaluating the safety and efficacy of spinal injections for the treatment of back and neck pain.¹³ Independent investigators systematically searched the literature through July 2015, identified eligible studies, assessed study quality, extracted data and pooled results. In total, 124 publications were included for review, including 72 RCTs appearing in 95 publications.

The quality of evidence across all included studies was assessed to be “low.” For indications of lumbar radiculopathy, lumbar spinal stenosis, failed back surgery syndrome, facet joint pain, and sacroiliac joint pain, investigators found no difference for pain, function and risk of surgery outcomes for patients receiving either ESI injections, control injections or placebos. For cervical radiculopathy due to disc and/or foraminal narrowing, investigators found no difference between ESI patients and conservative care patients in outcomes of arm pain, and surgery; however, functionality was better for conservative care patients. For indications of cervical radiculopathy and spinal stenosis, ESI patients and patients receiving control injections experienced no difference in pain, function, and disability outcomes. In its “final findings and decision” document, investigators recommended, over a 6-month span, no more than 3 fluoroscopic or CT-guided ESIs in the lumbar or cervical-thoracic spine for the treatment of patients with radicular pain who have failed conservative therapy.¹⁴

Thoracic Radiculopathy

In 2024, Hayes published an “evolving evidence review” of studies evaluating the safety and efficacy of epidural steroid injections for thoracic spine pain.¹⁵ Searching the literature through June 2021, Hayes evaluated two clinical studies and three systematic reviews. A review of clinical studies and systematic reviews suggested “minimal support” for using ESIs to treat thoracic spine pain, whereas a full-text review of two clinical practice guidelines indicated “strong support” for thoracic ESI’s.

Sciatica

Several additional systematic reviews and meta-analyses have indicated that epidural steroid injections more effectively reduce pain from sciatica at short- and medium-term follow-up compared to placebo injections.¹⁶⁻¹⁹

Injection Route

- In 2018, Lee and colleagues conducted a systematic review and meta-analysis comparing the clinical efficacy of transforaminal (TFESI) and caudal epidural steroid injections (CESI) for the treatment of lumbar and lumbosacral disc herniation.²⁰ Independent investigators systematically searched the literature through July 2017, identified eligible studies, assessed study quality, extracted data and pooled results. Outcomes of interest were pain (measured by visual analogue scale [VAS] and numeric rating scale) and disability (measured by Oswestry disability index). In total, 6 studies were included for qualitative review. Outcomes were analyzed using a random effects model to obtain effect size and statistical significance.

Of the 6 studies, 4 supported the superiority of TFESI over CESI, compared to 1 study supporting the superiority of CESI to TFESI, while 1 article reported no significant difference. TFESI patients experienced insignificantly improved pain and functionality at 1- and 6-months follow-up compared to CESI patients. Meta-analysis indicated insignificantly superior clinical efficacy with TFESI compared to CESI. Limitations in reviewed studies included small sample sizes (four of the six studies included fewer than 100 subjects), a high degree of heterogeneity of patients' baseline characteristics and treatment parameters. As such, the overall quality of evidence was assessed as "low." Investigators "weakly recommended" TFESI over CESI, despite noting the results' inconclusiveness.

- In 2016, Liu and colleagues conducted a systematic review and meta-analysis comparing the efficacy of transforaminal and caudal epidural steroid injections for the treatment of lumbosacral radicular pain.²¹ Independent investigators systematically searched the literature through June 2015, identified eligible studies, assessed study quality, extracted data and pooled results. In total, 8 studies were included for review (6 prospective and 2 retrospective). The combined sample size was 942 patients, although only the 664 patients from the prospective studies were included for meta-analysis. Follow-up periods ranged from 2 weeks to 2 years. The primary outcome of interest was "degree of pain relief" (visual or verbal analog pain score); the secondary outcome measure was functional improvement, as measured by the Oswestry Disability Index. Meta-analysis indicated that TFESI patients experienced insignificantly superior improvements in pain and function compared to CESI patients at 2-week follow-up, although the clinical significance of these improvements was unclear. These differences disappeared at 3-, 6-, and 12-months follow-up. TFESI and CESI patients also experienced no difference in function at any follow-up period.

Limitations included the lack of RCTs, small sample sizes, and high degree of heterogeneity in patient characteristics and treatment parameters among included studies. Investigators concluded that both TFESI and CESI appear to effectively improve pain and function for patients with lumbosacral radicular pain. While TFESI patients' radicular pain was slightly superior to CESI patients' at up to 6-month, CESI patients' pain and function were slightly better than TFESI patients' at 12-months follow-up. Authors called for additional studies to validate these findings and further guide clinical decision-making.

Post-Herpetic Neuralgia

Studies assessing the safety and efficacy of ESI's for the treatment of post-herpetic neuralgia is limited, but indicates significant pain reduction at 1- and 3-months follow-up. One RCT assessing 40 patients found significantly improved pain scores at 1- and 3- months follow-up compared to baseline.²² Another found that ESI's reduced pain and improved quality of life more effectively than patients receiving oral antivirals and analgesics alone.²³ Limitations include studies' small sample sizes (n=40 to 100), and the lack of studies including groups receiving placebo injections.

Investigational Indications

Low Back Pain without Radiculopathy

In 2015, AHRQ conducted a systematic review evaluating the safety and efficacy of pain management injection therapies for the treatment of low back pain.²⁴ Investigators systematically searched the literature for randomized trials of patients with lumbosacral radiculopathy, spinal stenosis, non-radicular back pain or chronic postsurgical back pain. The safety and efficacy of epidural, facet joint or sacroiliac corticosteroid injections were evaluated in placebo-controlled trials for the above indications. In total, 78 RCTs evaluating epidural injections were included for review. Investigators found low-quality evidence suggesting that epidural corticosteroid injections were not effective for spinal stenosis or non-radicular back pain. Results did not clearly demonstrate effectiveness for ESI versus placebos in the treatment of radiculopathy, spinal stenosis and non-radicular back pain in outcomes of pain, function or likelihood of surgery. Significant improvements were observed in the following: pain at immediate-term follow-up (WMD -7.55 on a 0 to 100 scale, 95% CI -11.4 to -3.74); function at intermediate-term follow-up when an outlier trial was excluded (SMD -0.33, 95% CI -0.56 to -0.09); and risk of surgery at short-term follow-up (RR 0.62, 95% CI 0.41 to 0.92); however, these benefits were small and not sustained at long-term follow-up.

Degenerative Spondylolisthesis

In 2020, Gerling and colleagues published a retrospective cohort study, using 4-year prospective data from the degenerative spondylolisthesis cohort of the Spine Patient Outcomes Research Trial (SPORT).²⁵ Authors intended to measure the effect of ESI on both patient-reported outcomes and perioperative complications and assess the relationship between ESI treatment and rates of crossover from nonoperative to operative management. In total, 266 patients who never received ESIs prior to enrollment in the study and 74 patients who received ESIs within 3 months of enrollment were compared with 192 patients who did not receive ESIs at any time during 4 years of follow-up. At follow-up, patient-reported pain and function were similar between ESI and no-ESI groups. Of the patients who were initially treated nonsurgically, those who received ESI and those who did not receive ESI did not differ with regard to surgical crossover rates. The rates of crossover to nonoperative treatment by patients who initially chose or were assigned to surgery also did not differ between the ESI and no-ESI groups. Investigators concluded that there was no relationship between ESI and improved clinical outcomes over a 4-year study period for patients who underwent surgery for degenerative spondylolisthesis. Due to this lack of long-term efficacy, ESI treatment was judged to have limited impact on patient decisions to avoid surgery.

Spinal Stenosis

In 2016, Cochrane conducted a systematic review comparing the safety and efficacy of surgical versus non-surgical interventions for the treatment of lumbar spinal stenosis (LSS).²⁶ Investigators searched the literature through February 2015, identified eligible studies, assessed study quality and extracted data. Outcomes of interest included pain, function, disability and quality of life. In total, 26 articles were included for review, including 5 RCTs (n = 643). Follow-up times ranged from 6 weeks to 10 years. Of the 26 studies, one small, low-quality study (n=38) included for review reported no difference in disability for patients treated with minimally invasive mild decompression versus those treated with ESI at 6-week follow-up (MD 5.70, 95% CI 0.57 to 10.83). Pain results, as assessed by the Zurich Claudication Questionnaire, were better for epidural injection at six weeks (MD -0.60, 95% CI -0.92 to -0.28), and visual analogue scale (VAS) improvements were better in the mild decompression group (MD 2.40, 95% CI 1.92 to 2.88). Investigators concluded that all studies provided conflicting, low-quality evidence on the efficacy of surgery versus conservative treatments for LSS.

Chemical radiculitis caused by annular tears

No clinical trials were identified addressing the safety or efficacy of ESI's to treat chemical radiculitis caused by annular tears.

Post-operative pain relief from spinal fusions or discectomy/laminectomy

Evidence from two systematic reviews concluded that evidence was insufficient to support the use of ESIs for the treatment of pain following discectomy/laminectomy procedures.^{27,28} One study assessing 12 trials (n=1,006) found that ESI's reduced post-operative morphine consumption for conventional surgeries, but not for discectomy.²⁷ Another study,²⁸ assessing 17 RCTs (n=1,727), reported that while ESIs significantly improved pain control and morphine use at short-term follow-up, the low-quality of articles included for meta-analysis necessitated "significantly more research" before ESIs could be recommended for routine use. One small RCT has been published since the above systematic reviews conducted literature searches. The study reported that found that 30 discectomy patients receiving ESIs experienced no statistically significant improvement in pain, morphine intake or disability compared to patients receiving placebo injections at short and mid-term follow-ups.²⁹

No studies were identified addressing the safety or efficacy of ESI's to treat post-operative pain from spinal fusion surgery or discectomy/laminectomy.

CLINICAL PRACTICE GUIDELINES

Imaging Guidance

- In 2014, the North American Spine Society (NASS) issued a coverage guidance addressing lumbar ESIs.³⁰ The guidance stated that ESIs required contrast enhanced fluoroscopy or CT guidance, regardless of indication or injection approach. The following recommendations were also made:
 - For transforaminal ESIs, live contrast-enhanced fluoroscopy or digital subtraction angiography is preferred, though contrast-enhanced CT guidance may be performed

- with the understanding that this form of visualization might not detect intravascular flow leading to potential complications, especially if particulate steroids are used.
- Exceptions to the use of contrast are considered in patients who have a significant history and/or are at high risk for an adverse event if contrast material is used (e.g. contrast allergy).
 - In these cases, physicians should consider using a test-dose injection prior to injecting any particular steroids and/or use only non-particulate steroid solutions.
 - The reasons for not using contrast should be documented in the procedure report.³⁰
 - In 2012, the North American Spine Society issued a clinical practice guideline on the diagnosis and treatment of lumbar disc herniation with radiculopathy. The NASS issued a “grade A” recommendation for contrast-enhanced fluoroscopy to guide ESIs to improve the accuracy of medication delivery.³¹
 - In 2011, the North American Spine Society issued a clinical practice guideline on the diagnosis and treatment of degenerative lumbar spinal stenosis.³¹ The NASS issued a grade “A” recommendation for contrast-enhanced fluoroscopy to guide ESIs to improve the accuracy of medication delivery.

Radicular Pain (Cervical, Thoracic, Lumbar)

Department of Veteran Affairs/Department of Defense (VA/DoD)

In 2017, a multidisciplinary panel of experts conducted a systematic review evaluating interventions for the diagnosis and treatment of low back pain.³² The VA/DoD strongly recommended against the use of ESI’s for the long-term reduction of radicular low back pain, non-radicular low back pain, or spinal stenosis. The guideline issued a “weak” recommendation for the use of ESI’s for the very short-term reduction of radicular low back pain.

American Academy of Family Physicians (AAFP)

In 2016, the AAFP issued clinical recommendations for the non-operative management of cervical radiculopathy, stating that ESIs should be considered among patients that experienced no improvement after 4 to 8 weeks of non-operative treatment.³³ This recommendation was made on the basis of expert opinion, not a systematic evidence review.

American Society of Interventional Pain Physicians (ASIPP)

- In 2021, the ASIPP issued a “moderate to strong recommendation” for thoracic epidural injections on the basis of level II evidence (one high quality RCT) for the treatment of chronic spinal pain.³⁴
- In 2013, ASIPP issued an update to its evidence-based guidelines on interventional techniques in chronic spinal pain.³⁵ For managing disc herniation or radiculitis in the lumbar spine, ASIPP concluded that evidence, ranging in quality from “fair” to “good,” supported the use of ESI’s for

managing disc herniation, radiculitis, discogenic pain without disc herniation, and spinal stenosis. In the cervical spine, ASIPP concluded that “fair” to “good” quality evidence supported the use of ESI for disc herniation, radiculitis, axial pain, discogenic pain, spinal stenosis and post cervical surgery syndrome. ASIPP also concluded that fair quality evidence supported the use of ESI for managing thoracic pain. Additionally, authors stated that the suggested frequency of injections in the therapeutic would be 2 months or longer between injections, provided that > 50% relief is obtained for 6 weeks.

North American Spine Society (NASS)

- In 2020, NASS issued a coverage recommendation addressing epidural steroid injections and selective spinal nerve blocks.² On the basis of an evidence review conducted through July 2018, investigators stated the following:
 - Therapeutic ESIs are indicated for the treatment of radicular or referred pain in which 2 of 4 of the following criteria are met:²
 - The pain is severe enough to cause a degree of functional and/or vocational impairment or disability.
 - Pain duration of at least 4 weeks, and/or inability to tolerate or failure to respond to 4 weeks of noninvasive care
 - Objective findings of radiculopathy or sclerotomal referred pain pattern are present and documented on examination
 - Advanced imaging (CT or magnetic resonance imaging [MRI]) demonstrates a correlative region of nerve involvement

Investigators also listed the following contraindications to ESIs:²

- Axial or nonspecific pain without radiating pain (unless it involves a nerve root that does not refer to a limb)
- Cancer
- Infection
- Compressive lesions of the spinal cord, conus medullaris or cauda equina
- Relative contraindications: uncontrolled bleeding disorders, poorly controlled diabetes, immune system impairment, and history of severe allergic reaction to components

Additional recommendations included the following:²

- To minimize the risk of direct spinal cord injury, interlaminar ESIs should not be performed above C8
- The ultimate choice of what approach or technique (interlaminar versus transforaminal) to use should be made by the treating physician
- Injections are performed independently based on the patient’s symptoms and response to prior injections and approach (if performed). There is no role for a routine “series of 3” ESIs.
- No more than 4 ESIs should be performed in a 6-month period of time
- No more than 6 ESIs should be performed in a 12-month period of time regardless of the number of levels involved.
- No more than 2 transforaminal ESIs should be performed at a single setting (e.g. single level bilaterally or two levels).

- For caudal or interlaminar ESIs, only one level per session may be performed and not in conjunction with a transforaminal injection.
 - Local anesthesia is sufficient for a majority of ESIs. Occasionally minimal to moderate conscious sedation is an appropriate option on a case-by-case basis in consultation with patients who understand the risk benefit ratio. If monitored anesthesia care is utilized, the need for such sedation should be clearly documented in the medical records.
- In 2014, NASS issued a coverage recommendation addressing lumbar epidural injections.³⁰ The recommendation indicated therapeutic lumbar ESIs for the following diagnoses with qualifying criteria, when appropriate:
 - Lumbar radicular pain in which the following criteria are met:
 - the pain is severe enough to cause some degree of functional deficit
 - failure of at least four weeks of noninvasive care
 - imaging demonstrating a correlative region of nerve impingement
 - Neurogenic claudication in which the following criteria are met:
 - the pain is severe enough to cause some degree of functional deficit
 - failure of at least four weeks of noninvasive care
 - imaging demonstrating a correlative region of nerve impingement
 - Low back pain without lower extremities symptoms ONLY in the following clinical scenarios:
 - High-level athletes during a competitive season
 - Pregnant women with intractable low back pain unresponsive to other treatments
 - NASS noted that exceptions to waiting 4 weeks should be reviewed on a case-by-case basis. Potential exceptions may include:
 - At least moderate pain with significant functional loss at work and/or home
 - Severe pain unresponsive to outpatient medical management
 - Inability to tolerate non-surgical, non-injection care due to co-existing medical condition(s) (e.g. cardiac disease)
 - Prior successful ESI for the same condition
- In 2014, NASS issued a coverage recommendation in which cervical ESI's were indicated for the treatment and/or evaluation of radiculopathy or radicular pain with a maximum of 4 diagnostic and/or therapeutic injections within a 6-month period.³⁶ NASS stated that injections should be performed with fluoroscopic or computed tomography (CT) image guidance. Cervical ESI's, either interlaminar or transforaminal, are indicated for the treatment of cervical radicular pain due to the following causes that meet the following criteria:
 - Cervical disc herniations, disc protrusions, disc bulges (e.g. disc osteophyte complexes), cervical spinal stenosis (central or foraminal stenosis) noted on an advanced imaging study (MRI or CT) that are consistent with and appear to be contributory to the patient's symptoms.
 - Failure of a course of supportive non-interventional care which can include observation, oral medications, physical therapy and/or activity modification

- In 2012, NASS issued an evidence-based clinical practice guideline addressing the diagnosis and treatment of lumbar disc herniation with radiculopathy.³¹ NASS issued a grade “A” recommendation (i.e. good-quality evidence) for transforaminal ESI to provide short-term (2-4 weeks) pain relief in a proportion of patients with lumbar disc herniations with radiculopathy. Evidence was judged to be insufficient to recommend for or against the 12-month efficacy of transforaminal ESI. The body issued a grade “C” recommendation (poor-quality evidence) for interlaminar ESI in the treatment of patients with lumbar disc herniation with radiculopathy. Evidence was judged insufficient to recommend one injection approach over another (e.g. interlaminar, transforaminal, caudal).
- In 2011, NASS issued an evidence-based clinical practice guideline addressing the diagnosis and treatment of degenerative lumbar spinal stenosis.³⁷ NASS issued a grade “B” recommendation (fair-quality evidence) for interlaminar ESIs to provide short-term (two weeks to six months) symptom relief in patients with neurogenic claudication or radiculopathy. The body issued a grade “C” recommendation (poor-quality evidence) for a multiple injection regimen of radiographically-guided transforaminal or caudal ESI to produce medium-term (3-36 months) pain relief in patients with radiculopathy or neurogenic intermittent claudication (NIC) from lumbar spinal stenosis.
- In 2010, NASS issued an evidence based clinical practice guideline addressing the diagnosis and treatment of cervical radiculopathy from degenerative disorders.³⁸ On the basis of poor quality evidence, NASS stated that transforaminal ESI using fluoroscopic or CT guidance may be considered as part of a treatment plan for patients with cervical radiculopathy from degenerative disorders.

Sciatica

National Institute for Health and Care Excellence (NICE)

In 2020, NICE issued a clinical practice guideline regarding the assessment and management of low back pain (LBP) and sciatica in adults.³⁹ The guideline recommended epidural injections of local anesthetic and steroid in people with acute and severe sciatica. NICE recommended against the use of epidural injections for neurogenic claudication in people who have central spinal canal stenosis.

Spinal Stenosis

North American Spine Society (NASS)

In 2020, NASS issued an evidence-based clinical practice guideline addressing the diagnosis and treatment of degenerative lumbar spinal stenosis.³⁷ The body issued a grade “C” recommendation (poor-quality evidence) for a multiple injection regimen of radiographically-guided transforaminal or caudal ESI to produce medium-term (3-36 months) pain relief in patients with neurogenic intermittent claudication (NIC) from lumbar spinal stenosis.

Low Back Pain without Radiculopathy

Health Evidence Review Commission (HERC)

In 2017, HERC issued a coverage guidance in which the body strongly recommended against epidural corticosteroid for coverage for the treatment of low back pain without radiculopathy (e.g. spinal stenosis, non-radicular pain); and a “weak” recommendation against epidural corticosteroid injections for coverage for the treatment of low-back with radiculopathy.⁴⁰

Other Indications

No clinical practice guidelines were identified addressing the use of ESI’s for the treatment of post-herpetic neuralgia, chemical radiculitis caused by annular tears, or post-operative pain from spinal fusion or discectomy/laminectomy.

EVIDENCE SUMMARY

Evidence is sufficient to support the short-term efficacy of epidural steroid injections (ESIs) as a treatment of a presumed radiculopathy. Evidence also demonstrates, however, that ESIs have no long-term efficacy. ESIs are widely considered standard of care treatment by professional societies. Large, randomized controlled trials are needed to further refine patient selection criteria and optimum treatment parameters (e.g. injection approach and regimen). Multiple clinical practice guidelines support the use of ESIs for short-term pain relief, but recommended against intermediate- or long-term use.

HEALTH EQUITY CONSIDERATIONS

The Centers for Disease Control and Prevention (CDC) defines health equity as the state in which everyone has a fair and just opportunity to attain their highest level of health. Achieving health equity requires addressing health disparities and social determinants of health. A health disparity is the occurrence of diseases at greater levels among certain population groups more than among others. Health disparities are linked to social determinants of health which are non-medical factors that influence health outcomes such as the conditions in which people are born, grow, work, live, age, and the wider set of forces and systems shaping the conditions of daily life. Social determinants of health include unequal access to health care, lack of education, poverty, stigma, and racism.

The U.S. Department of Health and Human Services Office of Minority Health calls out unique areas where health disparities are noted based on race and ethnicity. Providence Health Plan (PHP) regularly reviews these areas of opportunity to see if any changes can be made to our medical or pharmacy policies to support our members obtaining their highest level of health. Upon review, PHP creates a Coverage Recommendation (CORE) form detailing which groups are impacted by the disparity, the research surrounding the disparity, and recommendations from professional organizations. PHP Health Equity COREs are updated regularly and can be found online [here](#).

BILLING GUIDELINES AND CODING

Convenience kits, such as Dyural 80, are not covered. Physicians are to bill for the steroid medication only. All other costs are procedural expenses.

The following codes for monitored anesthesia and moderate sedation will deny when billed with an epidural steroid injection (CPT: 62321, 64479, 64480, 62323, 64483, 64484):

- 00300
- 00600
- 00620
- 00630
- 00640
- 01992
- 99152
- 99153
- 99156
- 99157

CODES*		
CPT	62320	Injection(s), of diagnostic or therapeutic substance(s) (eg, anesthetic, antispasmodic, opioid, steroid, other solution), not including neurolytic substances, including needle or catheter placement, interlaminar epidural or subarachnoid, cervical or thoracic; without imaging guidance
	62321	Injection(s), of diagnostic or therapeutic substance(s) (eg, anesthetic, antispasmodic, opioid, steroid, other solution), not including neurolytic substances, including needle or catheter placement, interlaminar epidural or subarachnoid, cervical or thoracic; with imaging guidance (ie, fluoroscopy or CT)
	62322	Injection(s), of diagnostic or therapeutic substance(s) (eg, anesthetic, antispasmodic, opioid, steroid, other solution), not including neurolytic substances, including needle or catheter placement, interlaminar epidural or subarachnoid, lumbar or sacral (caudal); without imaging guidance
	62323	Injection(s), of diagnostic or therapeutic substance(s) (eg, anesthetic, antispasmodic, opioid, steroid, other solution), not including neurolytic substances, including needle or catheter placement, interlaminar epidural or subarachnoid, lumbar or sacral (caudal); with imaging guidance (ie, fluoroscopy or CT)
	64479	Injection(s), anesthetic agent and/or steroid, transforaminal epidural, with imaging guidance (fluoroscopy or CT); cervical or thoracic, single level
	64480	Injection(s), anesthetic agent and/or steroid, transforaminal epidural, with imaging guidance (fluoroscopy or CT); cervical or thoracic, each additional level (List separately in addition to code for primary procedure)
	64483	Injection(s), anesthetic agent and/or steroid, transforaminal epidural, with imaging guidance (fluoroscopy or CT); lumbar or sacral, single level

	64484	Injection(s), anesthetic agent and/or steroid, transforaminal epidural, with imaging guidance (fluoroscopy or CT); lumbar or sacral, each additional level (List separately in addition to code for primary procedure)
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***Coding Notes:**

- The above code list is provided as a courtesy and may not be all-inclusive. Inclusion or omission of a code from this policy neither implies nor guarantees reimbursement or coverage. Some codes may not require routine review for medical necessity, but they are subject to provider contracts, as well as member benefits, eligibility and potential utilization audit.
- All unlisted codes are reviewed for medical necessity, correct coding, and pricing at the claim level. If an unlisted code is submitted for non-covered services addressed in this policy then it will be **denied as not covered**. If an unlisted code is submitted for potentially covered services addressed in this policy, to avoid post-service denial, **prior authorization is recommended**.
- See the non-covered and prior authorization lists on the Company [Medical Policy, Reimbursement Policy, Pharmacy Policy and Provider Information website](#) for additional information.
- HCPCS/CPT code(s) may be subject to National Correct Coding Initiative (NCCI) procedure-to-procedure (PTP) bundling edits and daily maximum edits known as “medically unlikely edits” (MUEs) published by the Centers for Medicare and Medicaid Services (CMS). This policy does not take precedence over NCCI edits or MUEs. Please refer to the CMS website for coding guidelines and applicable code combinations.

REFERENCES

1. Edemekong PF BD, Sukumaran S, et al.,. Activities of Daily Living (ADLs). <https://www.ncbi.nlm.nih.gov/books/NBK470404/>. Published 2023. Accessed 11/19/2025.
2. North American Spine Society. *Epidural Steroid Injections & Selective Spinal Nerve Blocks*. 2020.
3. MacDermid JC, Walton DM, Avery S, et al. Measurement properties of the neck disability index: a systematic review. *Journal of orthopaedic & sports physical therapy*. 2009;39(5):400-417.
4. Fairbank JC, Pynsent PB. The Oswestry disability index. *Spine*. 2000;25(22):2940-2953.
5. North American Spine Society. Evidence-Based Clinical Guidelines for Multidisciplinary Spine Care: Diagnosis & Treatment of Low Back Pain. <https://www.spine.org/Portals/0/assets/downloads/ResearchClinicalCare/Guidelines/LowBackPain.pdf>. Published 2020. Accessed 11/19/2025.
6. UpToDate. Subacute and chronic low back pain: Nonsurgical interventional treatment. <https://www.uptodate.com/contents/subacute-and-chronic-low-back-pain-nonsurgical-interventional-treatment>. Published 2025. Accessed 11/19/2025.
7. UpToDate. Clinical features and diagnosis of cervical radiculopathy. <https://www.uptodate.com/contents/clinical-features-and-diagnosis-of-cervical-radiculopathy>. Published 2025. Accessed 11/19/2025.
8. Marshall LL, Trethewie ER, Curtain CC. Chemical radiculitis. A clinical, physiological and immunological study. *Clinical orthopaedics and related research*. 1977(129):61-67.
9. Peng B, Wu W, Li Z, Guo J, Wang X. Chemical radiculitis. *Pain*. 2007;127(1-2):11-16.
10. U.S. Food and Drug Administration. FDA Drug Safety Communication: FDA requires label changes to warn of rare but serious neurologic problems after epidural corticosteroid injections for pain. <https://www.fda.gov/drugs/drug-safety-and-availability/fda-drug-safety-communication-fda-requires-label-changes-warn-rare-serious-neurologic-problems-after>. Published 2016. Accessed 11/19/2025.
11. Rathmell JP, Benzon HT, Dreyfuss P, et al. Safeguards to prevent neurologic complications after epidural steroid injections: consensus opinions from a multidisciplinary working group and national organizations. *Anesthesiology*. 2015;122(5):974-984.

12. Hayes Inc. Epidural Steroid Injections for Cervical Radiculopathy. <https://evidence.hayesinc.com/report/dir.epidural2792>. Published 2022. Accessed 11/19/2025.
13. Washington State Health Care Authority. Spinal Injections - Re-review: Updated Final Evidence Report. https://www.hca.wa.gov/assets/program/spinal_injections-rr_final_report_021216%5B1%5D.pdf. Published 2016. Accessed 11/19/2025.
14. Washington State Health Care Authority. Final Findings and Decision - Spinal Injections. https://www.hca.wa.gov/assets/program/spinal_injections-rr_final_findings_decision_060216.pdf. Published 2016. Accessed 11/19/2025.
15. Hayes Inc. Epidural Steroid Injections for the Treatment of Thoracic Spine Pain. <https://evidence.hayesinc.com/report/eer.epiduralsteroid4528>. Published 2024. Accessed 11/19/2025.
16. Watts R, Silagy C. A meta-analysis on the efficacy of epidural corticosteroids in the treatment of sciatica. *Anaesthesia and intensive care*. 1995;23(5):564-569.
17. Carette S, Leclaire R, Marcoux S, et al. Epidural corticosteroid injections for sciatica due to herniated nucleus pulposus. *New England Journal of Medicine*. 1997;336(23):1634-1640.
18. Rozenberg S, Dubourg G, Khalifa P, Paolozzi L, Maheu E, Ravaud P. Efficacy of epidural steroids in low back pain and sciatica. A critical appraisal by a French Task Force of randomized trials. Critical Analysis Group of the French Society for Rheumatology. *Revue du rhumatisme (English ed)*. 1999;66(2):79-85.
19. Koes BW, Scholten R, Mens JM, Bouter LM. Epidural steroid injections for low back pain and sciatica: an updated systematic review of randomized clinical trials. *Pain Digest*. 1999;9:241-247.
20. Lee JH, Shin KH, Bahk SJ, et al. Comparison of clinical efficacy of transforaminal and caudal epidural steroid injection in lumbar and lumbosacral disc herniation: A systematic review and meta-analysis. *The spine journal : official journal of the North American Spine Society*. 2018;18(12):2343-2353.
21. Liu J, Zhou H, Lu L, et al. The effectiveness of transforaminal versus caudal routes for epidural steroid injections in managing lumbosacral radicular pain: a systematic review and meta-analysis. *Medicine*. 2016;95(18).
22. Fujiwara A, Watanabe K, Hashizume K, Shinohara K, Kawaguchi M. Transforaminal vs Interlaminar Epidural Steroid Injection for Acute-Phase Shingles: A Randomized, Prospective Trial. *Pain physician*. 2018;21(4):373-382.
23. Ni J, Wang X, Tang Y, Yang L, Zeng Y, Guo Y. Subcutaneous Injection of Triamcinolone and Lidocaine to Prevent Postherpetic Neuralgia. *Pain physician*. 2017;20(5):397-403.
24. Agency for Healthcare Research and Quality. Pain Management Injection Therapies for Low Back Pain. https://www.ncbi.nlm.nih.gov/books/NBK285206/pdf/Bookshelf_NBK285206.pdf. Published 2015. Accessed 11/19/2025.
25. Gerling MC, Bortz C, Pierce KE, Lurie JD, Zhao W, Passias PG. Epidural Steroid Injections for Management of Degenerative Spondylolisthesis: Little Effect on Clinical Outcomes in Operatively and Nonoperatively Treated Patients. *JBJS*. 2020;102(15):1297-1304.
26. Zaina F, Tomkins-Lane C, Carragee E, Negrini S. Surgical versus non-surgical treatment for lumbar spinal stenosis. *Cochrane Database of Systematic Reviews*. 2016(1).
27. Arirachakaran A, Siripaiboonkij M, Pairuchvej S, et al. Comparative outcomes of epidural steroids versus placebo after lumbar discectomy in lumbar disc herniation: a systematic review and meta-analysis of randomized controlled trials. *European journal of orthopaedic surgery & traumatology : orthopedie traumatologie*. 2018;28(8):1589-1599.

28. Wilson-Smith A, Chang N, Lu VM, et al. Epidural Steroids at Closure After Microdiscectomy/Laminectomy for Reduction of Postoperative Analgesia: Systematic Review and Meta-Analysis. *World neurosurgery*. 2018;110:e212-e221.
29. Keorochana G, Pairuchvej S, Setrkraising K, Arirachakaran A, Kongtharvonskul J. Comparative Outcomes of Perioperative Epidural Steroids After Percutaneous Endoscopic Lumbar Discectomy for Lumbar Disc Herniation: A Randomized Placebo-Controlled Trial. *World neurosurgery*. 2018;119:e244-e249.
30. North American Spine Society. *Coverage Policy Recommendations - Lumbar Epidural Injections*. 2014.
31. North American Spine Society. *Clinical Guidelines for Diagnosis and Treatment of Lumbar Disc Herniation with Radiculopathy*. 2012.
32. Department of Veterans Affairs/ Department of Defense. Clinical Practice Guideline for Diagnosis and Treatment of Low Back Pain. <https://www.healthquality.va.gov/guidelines/Pain/lbp/VADoDLBPCPG092917.pdf>. Published 2017. Accessed 11/19/2025.
33. Childress MA, Becker BA. Nonoperative management of cervical radiculopathy. *Am Fam Physician*. 2016;93(9):746-754.
34. Manchikanti L, Knezevic NN, Navani A, et al. Epidural Interventions in the Management of Chronic Spinal Pain: American Society of Interventional Pain Physicians (ASIPP) Comprehensive Evidence-Based Guidelines. *Pain physician*. 2021:S27-S208.
35. Manchikanti L, Abdi S, Atluri S, et al. An update of comprehensive evidence-based guidelines for interventional techniques in chronic spinal pain. Part II: guidance and recommendations. *Pain physician*. 2013;16(2 Suppl):S49-283.
36. North American Spine Society. *Coverage Policy Recommendations: Cervical Epidural Injections and Diagnostic Spinal Nerve Blocks*. 2014.
37. North American Spine Society. *Diagnosis and Treatment of Degenerative Lumbar Spinal Stenosis*. 2011.
38. North American Spine Society. *Diagnosis and Treatment of Cervical Radiculopathy from Degenerative Disorders*. 2010.
39. National Institute for Health and Care Excellence (NICE). Low back pain and sciatica in over 16s: assessment and management. <https://www.nice.org.uk/guidance/ng59>. Published 2020. Accessed 11/19/2025.
40. Health Evidence Review Commission (HERC). Coverage Guidance: Low Back Pain - Corticosteroid Injections. <https://www.oregon.gov/oha/HPA/DSI-HERC/EvidenceBasedReports/Coverage%20Guidance%20-%20Low%20back%20pain-Corticosteroid%20Injections.pdf>. Published 2017. Accessed 11/19/2025.

POLICY REVISION HISTORY

DATE	REVISION SUMMARY
2/2023	Converted to new policy template.
6/2023	Interim update. Edited policy criteria.
3/2024	Annual update. Changed policy title. Require that neurologic exams be conducted in office. On 8/1/2024, clarified intent for criterion I.E. regarding conservative therapy timeframe prior to initial treatment.
1/2025	Annual review. No changes to criteria or coding. Added reference for Medicaid.
8/2025	Interim update. Change to documentation requirements.

10/2025	Interim update. Changes to criteria and “Policy Guidelines.”
1/2026	Annual review. No changes to codes or criteria.
5/2026	Interim update. Changes to conservative care requirements.