

Epidural Steroid Injections (ESI) - Single Service

Clinical Guidelines for Medical Necessity Review

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Important Notices

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Guideline Information:

Specialty Area: Diseases & Disorders of the Musculoskeletal System (M00-M99)

Guideline Name: Epidural Steroid Injection (ESI) (Single Service)

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Type: [X] Adult (18+ yo) | [_] Pediatric (0-17yo)

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Medical Necessity Criteria

Service: Epidural Steroid Injections (ESI)

General Guidelines

- Units, Frequency, & Duration: Patients who meet medical necessity criteria may receive a total of 4 epidural steroid injections (ESIs) per episode of pain (a defined period and specific location of pain, generally moderate to severe, based on an injury or degenerative cause), per region may be performed in 12 months.
- **Criteria for Subsequent Requests:** Additional injections may be appropriate if the pain returns at a moderate to severe level or loss of function occurs, and the patient had 50% or more relief from previous injections for at least 2 months after prior therapeutic injections. 1-13
- Recommended Clinical Approach: An ESI should be performed using radiographic image guidance. One interlaminar injection is recommended at a time. Transforaminal epidural steroid injections (TFESIs) involving a maximum of 2 nerve root levels in one spinal region are considered medically reasonable and necessary. If performed bilaterally, this refers to one nerve root on each side. If performed unilaterally, this would mean two nerve root levels on one side.
- Exclusions: None.

Medical Necessity Criteria

Indications

- → Epidural steroid injections (ESIs) are considered appropriate if ANY of the following is TRUE¹⁻¹⁵:
 - ESIs are considered appropriate for pain when ALL of the following are TRUE:
 - The patient has ANY of the following:
 - o Acute herpes zoster or neuralgia; **OR**
 - o Cancer with spinal involvement; AND
 - Frequency limitation indicated by no more than 6 injections in a rolling 12-month period¹⁵; OR
 - The injection is a diagnostic, transforaminal ESI to identify the pain generator for surgical planning, and ALL of the following are met:

- Pain causing functional disability or average pain levels of greater than or equal to 6 on a scale of 0 to 10; AND
- Documentation of a preoperative evaluation and plan for surgery; OR
- The patient has radicular pain or neurogenic claudication and ALL of the following are TRUE:
 - Physical examination findings consistent with radicular symptoms or neurogenic claudication; AND
 - The patient has undergone advanced imaging consistent with radicular symptoms or neurogenic claudication that correlate to the side requested; AND
 - Other sources of pain have been ruled out with clinical assessment or radiologic imaging; AND
 - The pain is causing a functional disability or average pain levels of greater than or equal to 6 on a scale of 0 to 10; AND
 - The injections must be performed under fluoroscopic or computed tomography imaging guidance (if the patient is pregnant, ultrasound guidance may also be considered);
 AND
 - No more than 2 nerve root levels of transforaminal epidural injections (1 spine level bilateral or 2 spine levels unilaterally) or 1 level interlaminar ESI should be administered during a single session; AND
 - ANY of the following:
 - The injection is an initial, diagnostic ESI injection, and ANY of the following is TRUE:
 - Failure of conservative management for greater than 6 weeks, including ALL of the following:
 - Oral steroids, anti-inflammatory medications, or analgesics if not contraindicated; AND
 - Physical therapy; AND
 - ANY of the following:
 - Corticosteroid injection if medically appropriate; OR
 - Corticosteroid injection is contraindicated; OR

- For acute radicular pain secondary to acute disc herniation, failure of conservative management for greater than 2 weeks, including ALL of the following:
 - Oral steroids, anti-inflammatory medications, or analgesics if not contraindicated; AND
 - Activity and lifestyle modifications; OR
 - Physical therapy; AND
 - **ANY** of the following:
 - Corticosteroid injection if medically appropriate; OR
 - Corticosteroid injection is contraindicated; OR
- The injection is a second diagnostic ESI injection, and ANY of the following are TRUE:
 - ◆ The initial diagnostic ESI injection failed, and ALL of the following are TRUE:
 - The initial injection was greater than or equal to 2 weeks prior; AND
 - The second diagnostic ESI injection is planned with a different approach, level, or medication; AND
 - The medical necessity for the second injection must be documented; OR
 - The initial diagnostic ESI injection had a good response with 50% or greater pain or symptom relief after the initial injection for a minimum of 2 months; OR
- The injection is a therapeutic injection and ALL of the following are TRUE:
 - The patient is participating in ongoing rehabilitative approaches (e.g., physical therapy, chiropractic care or physician-guided home exercise program); AND
 - The patient has pain that has been confirmed by diagnostic ESI injections that result in ALL of the following:

- Greater than or equal to 50% pain or symptom relief from diagnostic injections; AND
- The pain relief must be greater than or equal to 2 months duration; AND
- Frequency limitation indicated by ALL of the following:
 - The frequency of therapeutic injections must be at least 2 months apart; AND
 - No more than 4 therapeutic injections per rolling 12-month period per spinal level.

Non-Indications

- → Epidural steroid injections (ESIs) are not considered appropriate if ANY of the following is TRUE¹⁴⁻¹⁵:
 - ◆ For the treatment of ANY of the following 15:
 - Axial spine pain; OR
 - Cervicogenic headaches; OR
 - Complex regional pain syndrome; OR
 - Non-specific low back pain (LBP); OR
 - Pain from neuropathy from other causes; OR
 - Widespread diffuse pain; OR
 - ESIs performed at multiple anatomical regions during the same date of service¹⁵; OR
 - ◆ ESIs performed with biologicals or other substances not FDA designated for this use ¹⁵; **OR**
 - Hypersensitivity (or allergy) to steroids; OR
 - Injections performed without image guidance or by ultrasound except in cases of documented contraindication to contrast media (e.g., allergy, pregnancy)¹⁵; OR
 - ◆ Local or systemic infection¹⁴⁻¹⁵; **OR**
 - ◆ Use of moderate or deep sedation, general anesthesia, and monitored anesthesia care (MAC)¹⁵; OR
 - When other types of injections (e.g., facet, SI joint injections, etc.) are performed on the same date of service.

<u>Level of Care Criteria</u>

Outpatient

Procedure Codes (CPT/HCPCS)

CPT/HCPCS Code	Code Description
62320	Insertion of needle and injection of substance into cervical interlaminar subarachnoid space; Insertion of needle and injection of substance into thoracic interlaminar epidural space; Insertion of needle and injection of substance into thoracic interlaminar subarachnoid space; Insertion of needle and injection of substance into thoracic spinal canal; Injection of substance into cervical spine canal; Injection of substance into thoracic spine canal; Insertion of catheter and injection of substance into cervical interlaminar epidural space; Insertion of catheter and injection of substance into cervical spinal canal; Insertion of catheter and injection of substance into thoracic interlaminar epidural space; Insertion of catheter and injection of substance into thoracic interlaminar spinal canal; Insertion of catheter and injection of substance into thoracic interlaminar spinal canal; Insertion of catheter and injection of substance into thoracic interlaminar subarachnoid space; Insertion of needle and injection of substance into cervical interlaminar epidural space.
62321	Insertion of catheter and injection of substance into cervical interlaminar epidural space using imaging guidance; Insertion of catheter and injection of substance into cervical interlaminar subarachnoid space using imaging guidance; Insertion of catheter and injection of substance into thoracic interlaminar epidural space using imaging guidance; Insertion of catheter and injection of substance into thoracic interlaminar subarachnoid space using imaging guidance; Insertion of catheter and injection of substance into thoracic interlaminar subarachnoid space using imaging guidance;

	Insertion of needle and injection of substance into cervical interlaminar epidural space using imaging guidance; Insertion of needle and injection of substance into cervical interlaminar subarachnoid space using imaging guidance; Insertion of needle and injection of substance into thoracic interlaminar epidural space using imaging guidance; Insertion of needle and injection of substance into thoracic interlaminar subarachnoid space using imaging guidance; Injection of substance into cervical spinal canal using imaging guidance; Injection of substance into thoracic spinal canal using imaging guidance.	
62322	Injection of substance into lumbar spinal canal; Insertion of catheter and injection of substance into lumbar interlaminar epidural space;	
62323	Injection of substance into lumbar spinal canal using imaging guidance; Insertion of catheter and injection of substance into lumbar interlaminar epidural space using imaging guidance; Insertion of catheter and injection of substance into lumbar interlaminar subarachnoid space using imaging guidance; Insertion of needle and injection of substance into lumbar interlaminar epidural space using imaging guidance; Insertion of needle and injection of substance into lumbar interlaminar subarachnoid space using imaging guidance	
64479	Transforaminal injection of anesthetic agent and steroid into single epidural space of cervical spine using computed tomography (CT) guidance; Transforaminal injection of anesthetic agent and steroid into single epidural space of cervical spine using fluoroscopic guidance;	

Transforaminal injection of anesthetic agent and steroid into single epidural space of cervical spine using imaging guidance;

Transforaminal injection of anesthetic agent and steroid into single epidural space of thoracic spine using computed tomography (CT) guidance; Transforaminal injection of anesthetic agent and steroid into single epidural space of thoracic spine using fluoroscopic guidance;

Transforaminal injection of anesthetic agent and steroid into single epidural space of thoracic spine using imaging guidance;

Transforaminal injection of anesthetic agent into single epidural space of cervical spine using computed tomography (CT) guidance;

Transforaminal injection of anesthetic agent into single epidural space of cervical spine using fluoroscopic guidance;

Transforaminal injection of anesthetic agent into single epidural space of cervical spine using imaging guidance;

Transforaminal injection of anesthetic agent into single epidural space of thoracic spine using computed tomography (CT) guidance;

Transforaminal injection of anesthetic agent into single epidural space of thoracic spine using fluoroscopic guidance;

Transforaminal injection of anesthetic agent into single epidural space of thoracic spine using imaging guidance;

Transforaminal injection of steroid into single epidural space of cervical spine using computed tomography (CT) guidance;

Transforaminal injection of steroid into single epidural space of cervical spine using fluoroscopic guidance; Transforaminal injection of steroid into single epidural space of cervical spine using imaging guidance; Transforaminal injection of steroid into single epidural

space of thoracic spine using computed tomography (CT) guidance; Transforaminal injection of steroid into single epidural space of thoracic spine using fluoroscopic guidance; Transforaminal injection of steroid into single epidural space of thoracic spine using imaging guidance. 64480 Transforaminal injection of anesthetic agent and steroid into each additional epidural space of cervical spine using computed tomography (CT) guidance; Transforaminal injection of anesthetic agent and steroid into each additional epidural space of cervical spine using fluoroscopic guidance; Transforaminal injection of anesthetic agent and steroid into each additional epidural space of cervical spine using imaging guidance; Transforaminal injection of anesthetic agent and steroid into each additional epidural space of thoracic spine using computed tomography (CT) guidance; Transforaminal injection of anesthetic agent and steroid into each additional epidural space of thoracic spine using fluoroscopic guidance; Transforaminal injection of anesthetic agent and steroid into each additional epidural space of thoracic spine using imaging guidance; Transforaminal injection of anesthetic agent into each additional epidural space of cervical spine using computed tomography (CT) guidance; Transforaminal injection of anesthetic agent into each additional epidural space of cervical spine using fluoroscopic guidance; Transforaminal injection of anesthetic agent into each additional epidural space of cervical spine using imaging guidance; Transforaminal injection of anesthetic agent into each additional epidural space of thoracic spine using computed tomography (CT) guidance; Transforaminal injection of anesthetic agent into each

additional epidural space of thoracic spine using fluoroscopic guidance; Transforaminal injection of anesthetic agent into each additional epidural space of thoracic spine using imaging guidance; Transforaminal injection of steroid into each additional epidural space of cervical spine using computed tomography (CT) guidance; Transforaminal injection of steroid into each additional epidural space of cervical spine using fluoroscopic guidance; Transforaminal injection of steroid into each additional epidural space of cervical spine using imaging guidance; Transforaminal injection of steroid into each additional epidural space of thoracic spine using computed tomography (CT) guidance; Transforaminal injection of steroid into each additional epidural space of thoracic spine using fluoroscopic guidance; Transforaminal injection of steroid into each additional epidural space of thoracic spine using imaging guidance. 64483 Transforaminal injection of anesthetic agent and steroid into epidural space of lumbar spine using CT guidance; Transforaminal injection of anesthetic agent and steroid into epidural space of lumbar spine using fluoroscopic guidance; Transforaminal injection of anesthetic agent and steroid into epidural space of lumbar spine using imaging guidance; Transforaminal injection of anesthetic agent into epidural space of lumbar spine using CT guidance; Transforaminal injection of anesthetic agent into epidural space of lumbar spine using fluoroscopic guidance; Transforaminal injection of anesthetic agent into epidural space of lumbar spine using imaging guidance; Transforaminal injection of steroid into

	epidural space of lumbar spine using CT guidance; Transforaminal injection of steroid into epidural space of lumbar spine using fluoroscopic guidance; Transforaminal injection of steroid into epidural space of lumbar spine using imaging guidance	
+64484	Transforaminal injection of anesthetic agent and steroid into epidural space of lumbar spine using CT guidance; Transforaminal injection of anesthetic agent and steroid into epidural space of lumbar spine using fluoroscopic guidance; Transforaminal injection of anesthetic agent and steroid into epidural space of lumbar spine using imaging guidance; Transforaminal injection of anesthetic agent into epidural space of lumbar spine using CT guidance; Transforaminal injection of anesthetic agent into epidural space of lumbar spine using fluoroscopic guidance; Transforaminal injection of anesthetic agent into epidural space of lumbar spine using imaging guidance; Transforaminal injection of steroid into epidural space of lumbar spine using CT guidance; Transforaminal injection of steroid into epidural space of lumbar spine using fluoroscopic guidance; Transforaminal injection of steroid into epidural space of lumbar spine using fluoroscopic guidance; Transforaminal injection of steroid into epidural space of lumbar spine using fluoroscopic guidance; Transforaminal injection of steroid into epidural space of lumbar spine using imaging guidance	
64999	Unlisted procedure on nervous system	
0228T	Injections(s), anesthetic agent and/or steroid, transforaminal epidural, with ultrasound guidance, cervical or thoracic; single level	
+0229T	Injections(s), anesthetic agent and/or steroid, transforaminal epidural, with ultrasound guidance, cervical or thoracic; each additional level (List separately in addition to code for primary procedure)	
0230T	Injection(s), anesthetic agent and/or steroid, transforaminal epidural, with ultrasound guidance, lumbar or sacral; single level	

+0231T	Injections of anesthetic agent and/or steroid into lower
	or sacral spinal canal using ultrasound guidance

Medical Evidence

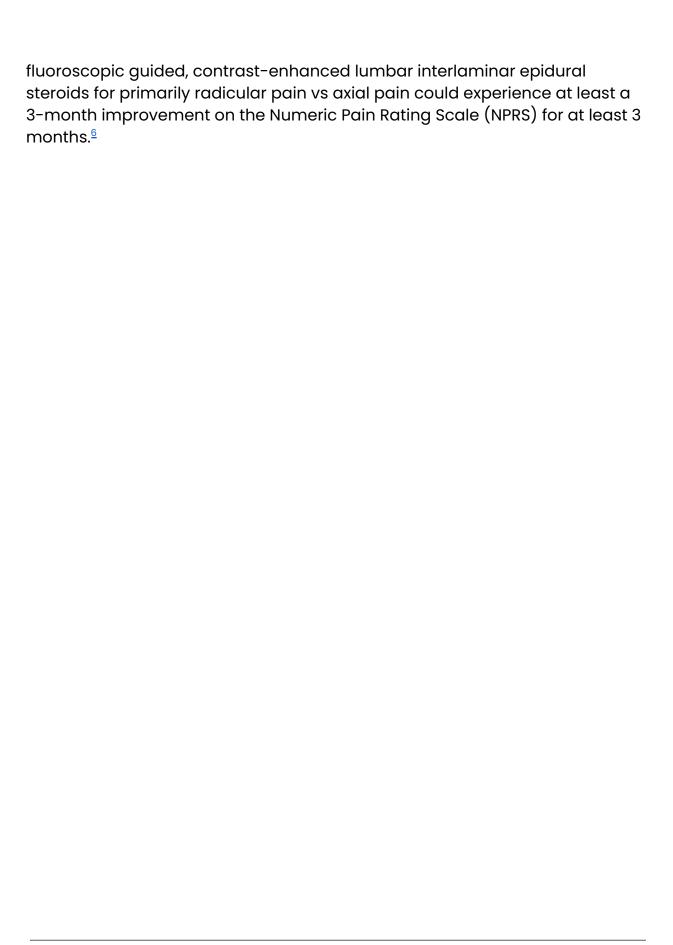
The Centers for Medicare and Medicaid Services (CMS) (2023) published Local Coverage Determination (LCD) Epidural Steroid Injections (ESIs) for Pain Management (L39036). The LCD includes several recommendations and non-indications for ESIs for radiculopathy and pain related to the spine. 15

Kreiner et al. (2014) developed a clinical guideline for the North American Spine Society (NASS) to diagnose and treat lumbar disc herniation. Twenty-nine questions and recommendations resulted from this effort, including a Grade A recommendation for use of contrast-enhanced fluoroscopy in the routine performance of ESIs; a Grade A recommendation for ESI in treatment of lumbar disc herniation with radiculopathy; no recommendation given for optimal frequency or quantity of injections; and insufficient evidence found to make a recommendation for or against the 12-month efficacy of transforaminal ESI in lumbar disc herniation with radiculopathy.¹⁶

Manchikanti et al. (2012) conducted a randomized, double-blind, active-control trial. Patients with a diagnosis of disc herniation, radiculitis, facet joint pain, or sacroiliac joint pain were excluded. The two groups of subjects received local anesthetic only or local anesthetic mixed with non-particulate betamethasone. Success was to be measured by a greater than 50% decrease in pain and disability, and the outcome was 77% in the local anesthetic-only group and 67% in the local anesthetic mixed with non-particulate betamethasone.⁹

In a systematic review, Kim et al. (2011) tested the hypothesis that dexamethasone phosphate (DP) and methylprednisolone acetate (MPA) would achieve similar outcomes when used in the treatment of lumbar radiculopathy by epidural injection. The study determined that when compared with particulate methylprednisolone, nonparticulate dexamethasone appeared to be close in safety and effectiveness.²

Furman et al. (2010) conducted a prospective, single-arm, pilot, observational study. Inclusion criteria included patients with lumbar radicular pain, and exclusion criteria included the presence of irreversible psychological barriers or anatomical anomalies. The group concluded that subjects undergoing



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Clinical Guideline Revision History/Information

Original Date: April 21, 2021				
Review History				
Version 2	12/29/2023			
Version 3	9/20/2024	Updated language regarding conservative treatment.		