

MEDICAL POLICY

Medical Policy Title	Intradiscal Procedures
Policy Number	7.01.112
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Next Review Date	June 2027

Our medical policies are guides to evaluate technologies or services for medical necessity. Criteria are established through the assessment of evidence based, peer-reviewed scientific literature, and national professional guidelines. Federal and state law(s), regulatory mandates and the member's subscriber contract language are considered first in the determination of a covered service.

(Link to [Product Disclaimer](#))

POLICY STATEMENT(S)

- I. Intradiscal procedures are considered **investigational** including, but not limited to, the following procedures:
 - A. Annulo-nucleoplasty (Disc-FX procedure);
 - B. Cervical intradiscal radiofrequency lesioning;
 - C. Coblation percutaneous disc decompression;
 - D. Hydrodiscectomy (high pressure water to remove disc material);
 - E. Intradiscal biacuplasty (IBD)/intervertebral disc biacuplasty/cooled radiofrequency;
 - F. Intradiscal electrothermal annuloplasty (IEA);
 - G. Intradiscal thermal annuloplasty (IDTA);
 - H. Nucleoplasty (also known as percutaneous radiofrequency thermomodulation or percutaneous plasma discectomy);
 - I. Automated percutaneous lumbar discectomy (APLD);
 - J. Percutaneous laser disc decompression (PLDD);
 - K. Percutaneous (or-plasma) disc decompression (PDD) (e.g., VERTOS Medical Mild Surgical Procedure);
 - L. Percutaneous intradiscal radiofrequency thermocoagulation (PIRFT)/intradiscal radiofrequency thermomodulation/percutaneous radiofrequency thermomodulation;
 - M. Radiofrequency annuloplasty (RA);
 - N. Targeted disc decompression (TDD);
 - O. Intradiscal injections (not an all-inclusive list) (e.g., methylene blue, hyaluronate, ozone, oxygen/ozone, bone marrow concentrates, chymopapain, platelet rich plasma [PRP], mesenchymal stem cell, glucocorticoids, hyaluronidase, growth factor, etc.).

RELATED POLICIES

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Corporate Medical Policy

7.01.113 Lumbar Decompression

11.01.03 Experimental or Investigational Services

POLICY GUIDELINE(S)

Not Applicable

DESCRIPTION

Intradiscal Procedures

Intradiscal procedures are minimally invasive surgical procedures to treat symptomatic individuals with discogenic pain attributed to annular disruption of contained herniated disc, to seal annular tears or fissures, or to destroy nociceptors for the purpose of relieving pain. These procedure techniques can include any of the following methods:

- The percutaneous placement of an intradiscal probe into the suspected painful disc(s) and through the use of radiofrequency energy or electrothermal energy, produce heat to either coagulate and/or disrupt (shrink) type I collagen within the disc for decompression of the disc material (TIPs).
- The injection of agents into the nucleus pulposus or annulus of the disc to decompress disc material.
- Percutaneous procedures to decompress disc material using indirect/direct visualization.

Thermal Intradiscal Techniques

Thermal intradiscal techniques are intradiscal procedure techniques that use single or multiple probes/catheters. They utilize a resistance coil or other delivery system technology, are flexible or rigid, and are placed within the nucleus pulposus, the nuclear-annular junction or within the annulus.

Automated Percutaneous Discectomy (APD or APLD)

APD is performed using local anesthetic, with or without conscious sedation. Under fluoroscopic guidance, a cannula is placed centrally within the disc using a posterolateral approach on the symptomatic side. A probe, connected to an automated cutting and aspiration device, is then introduced through the cannula. The disc is aspirated until no more nuclear material can be obtained. The Stryker DeKompressor Percutaneous Discectomy Probe (Stryker), the Nucleotome (Clarus Medical), and the SpineJet Hydrodiscectomy System (HydroCision) are examples of devices utilized in ADP, while the Nucleotome device is used for APLD.

Endoscopic Techniques

Endoscopic techniques have also been developed to perform discectomy under local anesthesia. The procedure involves the percutaneous placement of a working channel under image guidance, followed by visualization of the working space and instruments through an endoscope. Endoscopic techniques may be intradiscal or may involve the extraction of non-contained and sequestered disc

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fragments from inside the spinal canal using an interlaminar or transforaminal approach. Following insertion of the endoscope, the decompression is performed under visual control.

Intradiscal Annuloplasty Therapies

Intradiscal annuloplasty therapies utilize radiofrequency energy to thermally treat discogenic low back pain arising from annular tears and other forms of internal disc derangement. In contrast with disc nucleoplasty, which ablates disc material, thermal annuloplasty techniques are designed to decrease pain arising from the annulus and enhance its structural integrity. It has been proposed that heat-induced denaturation of collagen fibers in the annular lamellae may stabilize the disc and potentially seal annular fissures, and that pain reduction may occur through the thermal coagulation of nociceptors in the outer annulus.

Intradiscal Electrothermal Annuloplasty (IDET or IDTA)

Intradiscal electrothermal annuloplasty (IDET or IDTA) is a minimally invasive treatment for discogenic low back pain, intended to treat the protein wall of the disc and reduce the volume of disc material that causes nerve irritation. The procedure involves the insertion of a spinal catheter through a needle into the disc under fluoroscopy, then the use of indirect radiofrequency energy, heating the needle to 194 degrees Fahrenheit (90 degrees centigrade) for up to 20 minutes. The heat from which kills the invading nerves and tightens the surrounding ligaments, creating a new seal. Proposed advantages of indirect electrothermal delivery of radiofrequency energy with IDET/IDTA include precise temperature feedback and control, as well as the ability to provide electro-thermocoagulation to a broader tissue segment than would be allowed with a direct radiofrequency needle.

Percutaneous Intradiscal Thermocoagulation (PIRFT)

Percutaneous intradiscal thermocoagulation (PIRFT) using the Radionics Disc Catheter System, uses a radiofrequency probe placed into the center of the disc, rather than around the annulus, and the device is activated for only 90 seconds at a temperature of 70 degrees centigrade. The mechanism of action is not precisely understood, but it is thought to be related to reducing the nociceptive pain input from the free nerve ending in the outer annulus fibrosis. The Radionics Disc Catheter System is similar in concept to IDET/IDTA; however, the methods of delivering thermal energy are distinctly different. The proposed advantages of the electrothermal delivery of energy (as with IDET/IDTA), compared to the use of a radiofrequency needle (as with PIRFT) are due to the fact that IDET/IDTA provides electrothermal coagulation to a broader tissue segment and allows precise temperature control and temperature feedback.

Intradiscal Biacuplasty

Intradiscal biacuplasty, involves the use of two cooled radiofrequency electrodes that are placed on the posterolateral sides of the intervertebral annulus fibrosis. It is proposed that, by cooling the probes, a larger area may be treated than is possible with a regular needle probe.

Viable Allograft Supplemental Disc Regeneration (VAST)

Viable allograft supplemental disc regeneration (VAST), or Via Disc, is a therapeutic percutaneous injection of the lumbar spine using an allogeneic cellular or tissue-based product to replace or supplement the disc tissue. It repairs or reconstitutes a damaged intra-vertebral disc.

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Disc Nucleoplasty

Disc nucleoplasty, which uses a bipolar radiofrequency device to provide heat treatment to the intervertebral disc; in order to remove tissue with minimal thermal damage to collateral tissue.

Radiofrequency Ablation or Disc Nucleoplasty

Radiofrequency ablation or disc nucleoplasty uses bipolar radiofrequency energy in a process called coblation technology, in which small, multiple electrodes ablate tissue with a low-temperature plasma field of ionized particles. The particles break organic molecular bonds within the tissue, creating small channels in the disc.

SUPPORTIVE LITERATURE

Automated Percutaneous Discectomy (APD)

The Dekompressor (Stryker) and the Nucleotome (Clarus Medical) both have the same intended use label, e.g., “for use in aspiration of disc material during percutaneous discectomies in the lumbar, thoracic and cervical regions of the spine.” The HydroCision SpineJet Hydrodiscectomy System is used for the cutting, resection, and removal of soft tissue in minimally invasive percutaneous spinal surgery.

The vast majority of the published literature addresses the use of APD in lumbar disc herniation. APD as a technique for disc decompression.

A Cochrane systematic review (Gibson et al 2007) concluded that “trials of percutaneous discectomy provided moderate evidence that it produces poorer clinical outcomes than standard discectomy or chymopapain.” For example, Chatterjee et al. reported on the results of a study that randomized 71 patients with lumbar disc herniation to undergo either percutaneous discectomy or lumbar microdiscectomy. A successful outcome was reported in only 29% of those undergoing percutaneous discectomy, compared to 80% in the microdiscectomy group. The trial was halted early due to this inferior outcome. In a 1993 randomized study, Revel and colleagues compared the outcomes of percutaneous discectomy to chymopapain injection in 141 patients with disk herniation and sciatica. Treatment was considered successful in 61% of patients in the chymopapain group, compared to 44% in the percutaneous discectomy group. Another trial cited in the Cochrane review, Mayer et al 1993 is not applicable, as the technique used modified forceps in addition to a suction probe. Finally, the last trial cited in the Cochrane review, Hermantin et al 1999 provided insufficient data to allow detailed analysis of results.

In the Lumbar Automated Percutaneous Discectomy Group (LAPDOG) study (Haines et al 2002), a randomized trial was designed to compare percutaneous and open discectomy in patients with lumbar disc herniation. This trial was designed to recruit 330 patients but was able to recruit only 36 patients. Of the evaluable 27 patients, 41% of the percutaneous discectomy patients and 40% of the conventional discectomy patients were assessed as having successful outcomes at six months. The authors acknowledged that this trial was unable to enroll sufficient numbers of patients to reach a definitive conclusion and stated, “It is difficult to understand the remarkable persistence of percutaneous discectomy in the face of a virtually complete lack of scientific support for its effectiveness in treated lumbar disc herniation.”

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A task force of the American Society of Interventional Pain Physicians (Boswell et al 2007) reported that percutaneous disc decompression remains controversial; although all observational studies were positive, the evidence from all four of the randomized published studies was negative. Questions also remain about the appropriate patient selection criteria (particularly related to the size and migration of the disc herniation) for this procedure.

The 2005 National Institute for Health and Excellence guidance for automated percutaneous mechanical lumbar discectomy concluded, “There is limited evidence of efficacy based on uncontrolled case series of heterogeneous groups of patients, but evidence from small randomized controlled trials shows conflicting results. In view of the uncertainties about the efficacy of the procedure, it should not be used without special arrangements for consent and for audit or research.”

Minimally Invasive Lumbar Decompression (MILD)

The largest RCT (Staats et al 2016 and Benyamin et al 2016) compared mild with ESIs (control) in 302 patients who had ligamentum flavum hypertrophy and who failed conservative therapy. Early results have suggested reductions in pain and improvements in function scores in the mild group versus the control group. The trial was unblinded, and there is evidence of differing expectations and follow-up in the two groups, suggesting a high risk of bias. The available evidence is insufficient to determine the efficacy of mild compared with placebo, or to determine the efficacy of mild compared with open decompression. Trials with relevant control groups could provide greater certainty about the risks and benefits of this procedure. The evidence is insufficient to determine the effects of technology on health outcomes.

The SpineCATH/Oratec Intradiscal Electrothermal Catheter and the Radionics RF Disc Catheter Electrode System (Radionics, Inc., Burlington, MA) are intended to create lesions in nervous tissue, and for the coagulation and decompression of disc material to treat symptomatic patients with annular disruption of contained herniated discs. The Baylis Pain Management Cooled Probe, used for intradiscal biacuplasty (Baylis Medical, Inc., Montreal, Canada) is intended for use “in conjunction with the Radio Frequency Generator to create radiofrequency lesions in nervous tissue.” The Baylis Transdiscal System is “[u]sed in combination with the Baylis Pain Management Generator is intended for the creation of radiofrequency (RF) lesions in nervous tissue including that which is situated in intervertebral disc material.”

Intradiscal Electrothermal Annuloplasty (IDET/IDTA)

Published clinical trials have not provided evidence to support the efficacy of IDET/IDTA. Published evidence consists mainly of case series. Results of two randomized, controlled trials (RCTs), each with methodological weaknesses, are inconsistent. Pauza et al 2004 concluded that the treatment is effective; however, the researchers did not use an “intention to treat” analysis, and it is not clear that the reduction in reported pain is clinically significant. Freeman et al 2005 conducted a randomized, sham-controlled study; no subject in either arm met criteria for successful outcome, and no significant benefit for IDET/IDTA over placebo was demonstrated.

Percutaneous Intradiscal Thermocoagulation (PIRFT)

A 2007 evidence-based practice guideline from the American Society of Interventional Pain Physicians

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on the management of chronic spinal pain, created to provide recommendations to clinicians in the U.S., concluded that evidence is moderate for IDET/IDTA in the management of chronic discogenic low back pain. Complications included catheter breakage, nerve root injuries, post-IDET/IDTA disc herniation, cauda equine syndrome, infection, epidural abscess, and spinal cord damage. The same guideline concluded that evidence for radiofrequency posterior annuloplasty (PIRFT) was limited, with complications similar to IDET/IDTA.

A systematic review of IDET/IDTA and PIRFT was conducted, following the criteria recommended by the Cochrane Back Review Group. Four randomized and two non-randomized studies, totaling 283 patients, were included in the review. The report concluded that the available evidence does not support the efficacy or effectiveness of IDET/IDTA and PIRFT, and that these procedures are associated with potentially serious side effects. Evidence-based guidelines from the American Society of Interventional Pain Physicians concluded that the evidence is moderate for management of chronic discogenic low back pain with IDET/IDTA. Complications include catheter breakage, nerve root injuries, post-IDET/IDTA disc herniation, cauda equine syndrome, infection, epidural abscess, and spinal cord damage. The evidence for PIRFT was reported to be limited, with complications similar to IDET/IDTA.

Intradiscal Biacuplasty

In an industry-sponsored, multi-center, RCT (Desai et al 2016), 63 patients with lumbar discogenic pain were treated with intradiscal biacuplasty plus conservative medical management or with medical management alone. A significant effect was found for the primary outcome measure (mean reduction in visual analog scale score for pain at six months), but not the secondary outcome measures. Additional sham-controlled trials in a broader population of patients are needed, to confirm treatment efficacy.

Viable Allograft Supplemented Disc Regeneration

The Viable Allograft Supplemented Disc Regeneration in the Treatment of Patients with Low Back Pain with or without Disc Herniation (VAST) Trial was a prospective, randomized, parallel-arm, multi-center study approved to enroll up to 220 subjects at up to 15 clinical sites. The aim of the trial was to investigate the clinical relevance of treating painful intervertebral disc tissue by a supplementary transplantation of viable cellular allograft disc matrix and compare the cellular allograft with a saline placebo or continued treatment with sustained conservative care. This interim analysis enrolled 24 subjects who were randomized 3.5:1:1 to receive allograft (n=16) or saline (n=4) at either one or two levels or continue nonsurgical management (NSM) (n=4). Back pain with a visual analog scale (VAS) and disability by the Oswestry Disability Index (ODI) were assessed, as were adverse events. After three months, all subjects in the NSM cohort crossed over to allograft treatment. At 12 months, the VAS improved from 54.81, 55.25, and 62.255 in the allograft, saline, and NSM subjects, respectively, to 12.27 in the allograft group and 19.67 in the saline group. At 12 months, ODI improved from 53.73, 49.25, and 55.75 in the allograft, saline, and NSM subjects, respectively, to 15.67 in the allograft group and 9.33 in the saline group. Adverse events were transient and resolved in all cohorts.

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Laser Discectomy

While numerous case series and uncontrolled studies have reported improvements in pain levels and functioning following laser discectomy, the lack of well-designed and well-conducted controlled trials limits interpretation of reported data. The evidence is insufficient to determine the effect of technology on health outcomes.

Nucleoplasty

RCTs are limited by the lack of blinding, an inadequate control condition in one, and inadequate data reporting in the second. The available evidence is insufficient to permit conclusions concerning the effect of these procedures on health outcomes, due to multiple confounding factors that may bias results. High-quality, randomized trials with adequate follow-up (at least one year), that would control for selection bias, the placebo effect, and variability in the natural history of low back pain, are needed. The evidence is insufficient to determine the effect of technology on health outcomes.

PROFESSIONAL GUIDELINE(S)

2020 North American Spine Society (NASS) guidelines for Diagnosis and Treatment of Lower Back Pain address the treatment of lower back pain with electrothermal therapy and biacuplasty.

- Intradiscal electrothermal annuloplasty is suggested to provide improvements in pain and function at up to two years. This treatment is limited in its effectiveness with roughly 40-50% of patients receiving a 50% reduction in pain. (Grade of recommendation B=Suggested).
- Biacuplasty is an option to produce clinically and statistically significant improvements in pain at six (6) months in patients with discogenic low back pain. (Grade of recommendation C=May be considered).
- There is insufficient evidence to make a recommendation for or against the use of percutaneous intradiscal radiofrequency thermocoagulation. (Grade of recommendation I=Insufficient).

National Institute for Health and Care Excellence (NICE) 2016 guidance on laser lumbar discectomy for the treatment of sciatica states:

- Current evidence “is inadequate in quantity and quality.”

NICE 2016 guidance on percutaneous disc decompression using coblation for lower back pain and sciatica states:

- “Current evidence on percutaneous coblation of the intervertebral disc for low back pain and sciatica raises no major safety concerns. The evidence on efficacy is adequate and includes large numbers of patients with appropriate follow-up periods.” The guidance also noted that patients should be informed of the range of treatment options available.

REGULATORY STATUS

The U.S. Food and Drug Administration (FDA) regulates intradiscal devices as medical devices. All intradiscal devices including related components require FDA approval before marketing and use in the United States to ensure they are safe and effective for human use. Refer to the FDA Medical

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Device website. Available from: <https://www.fda.gov/medical-devices> [accessed 2026 May 19]

The FDA lists the most serious type of medical device recalls as well as early alert communications about corrective actions being taken by companies that the FDA believes are likely to be the most serious type of recalls. Available from: [Medical Device Recalls | FDA](#) [accessed 2026 May 19]

Indications approved by the U.S. Food and Drug Administration (FDA) for the Homium YAG laser include discectomy. The FDA granted Section 510(k) premarket approval for the use of Arthrocare's Perc-D SpineWand with the ArthroCare System 2000 for ablation, coagulation, and decompression of disk material.

The Dekompressor (Stryker) and the Nucleotome (Clarus Medical) have received clearance from the FDA through the Section 510(k) process.

In 2003, HydroCision announced that the FDA had granted Section 510(k) clearance to market the SpineJet Hydrodiscectomy System.

The SpineCATH/Oratec Intradiscal Electrothermal Catheter received Section 510(k) premarket authorization from the United States Food and Drug Administration (FDA) in March 1998.

The Radionics RF Disc Catheter Electrode System (Radionics, Inc., Burlington, MA) received Section 510(k) authorization in 2000.

The Baylis Pain Management Cooled Probe, used for intradiscal biacuplasty (Baylis Medical, Inc., Montreal, Canada), received Section 510(k) authorization in 2005.

The Baylis Transdiscal System received Section 510(k) authorization in 2006.

CODE(S)

- Codes may not be covered under all circumstances.
- Code list may not be all inclusive (AMA and CMS code updates may occur more frequently than policy updates).
- (E/I)=Experimental/Investigational
- (NMN)=Not medically necessary/appropriate

CPT Codes

Code	Description
22526 (E/I)	Percutaneous intradiscal electrothermal annuloplasty, unilateral or bilateral including fluoroscopic guidance; single level
22527 (E/I)	one or more additional levels (list separately in addition to code for primary procedure)

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Code	Description
62287 (E/I)	Decompression, percutaneous, of nucleus pulposus of intervertebral disc, any method, utilizing needle-based technique to remove disc material under fluoroscopic imaging or other form of indirect visualization, with discography and/or epidural injection(s) at the treated level(s), when performed, single or multiple levels, lumbar
62330 (E/I) Effective 01/01/26	Decompression, percutaneous, with partial removal of the ligamentum flavum, including laminotomy for access, epidurography, and imaging guidance (i.e., CT or fluoroscopy), bilateral; one interspace, lumbar (Replacing code 0275T)
0275T (E/I) Termed 12/31/2025	Percutaneous laminotomy/laminectomy (interlaminar approach) for decompression of neural elements, (with or without ligamentous resection, discectomy, facetectomy and/or foraminotomy), any method, under indirect image guidance (e.g., fluoroscopic, CT), single or multiple levels, unilateral or bilateral; lumbar
62331 (E/I) Effective 01/01/26	Decompression, percutaneous, with partial removal of the ligamentum flavum, including laminotomy for access, epidurography, and imaging guidance (ie, CT or fluoroscopy), bilateral; additional interspace(s), lumbar (List separately in addition to code for primary procedure) (Replacing code 0275T)
0275T (E/I) Termed 12/31/2025	Percutaneous laminotomy/laminectomy (interlaminar approach) for decompression of neural elements, (with or without ligamentous resection, discectomy, facetectomy and/or foraminotomy), any method, under indirect image guidance (e.g., fluoroscopic, CT), single or multiple levels, unilateral or bilateral; lumbar
0274T (E/I)	Percutaneous laminotomy/laminectomy (interlaminar approach) for decompression of neural elements, (with or without ligamentous resection, discectomy, facetectomy and/or foraminotomy), any method, under indirect image guidance (e.g., fluoroscopic, CT), single or multiple levels, unilateral or bilateral; cervical or thoracic
0627T (E/I)	Percutaneous injection of allogeneic cellular and/or tissue-based product, intervertebral disc, unilateral or bilateral injection, with fluoroscopic guidance, lumbar; first level
0628T (E/I)	each additional level (List separately in addition to code for primary procedure)
0629T (E/I)	Percutaneous injection of allogeneic cellular and/or tissue-based product, intervertebral disc, unilateral or bilateral injection, with CT guidance, lumbar; first level
0630T (E/I)	with CT guidance, lumbar; each additional level (List separately in addition to code for primary procedure)

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HCPCS Codes

Code	Description
C2614 (E/I)	Probe, percutaneous lumbar discectomy
G0276 (E/I)	Blinded procedure for lumbar stenosis, percutaneous image-guided lumbar decompression (PILD) or placebo-control, performed in an approved coverage with evidence development (CED) clinical trial
S2348 (E/I)	Decompression procedure, percutaneous, of nucleus pulposus of intervertebral disc, using radiofrequency energy, single or multiple levels, lumbar

ICD10 Codes

Code	Description
M43.12- M43.17	Spondylolisthesis (code range)
M48.02 – M48.07	Spinal stenosis (code range)
M50.20- M50.23	Other cervical disc displacement (code range)
M50.30- M50.33	Other cervical disc degeneration (code range)
M51.06	Intervertebral disc disorders with myelopathy, lumbar region
M51.16	Intervertebral disc disorders with radiculopathy, lumbar
M51.17	Intervertebral disc disorders with radiculopathy, lumbosacral region
M51.24- M51.27	Other intervertebral disc displacement (code range)
M51.34- M51.37	Other intervertebral disc degeneration (code range)
M51.9	Unspecified thoracic, thoracolumbar and lumbosacral intervertebral disc disorder

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SEARCH TERMS

Not Applicable

CENTERS FOR MEDICARE AND MEDICAID SERVICES (CMS)

[Percutaneous Image-Guided Lumbar Decompression for Lumbar Spinal Stenosis \(NCD 150.13\)](#)

[accessed 2026 May 19]

[Thermal Intradiscal Procedures \(TIPs\) \(NCD 150.11\)](#) [accessed 2026 May 19]

[Laser Procedures \(NCD 140.5\)](#) [accessed 2026 May 19]

PRODUCT DISCLAIMER

- Services are contract dependent; if a product does not cover a service, medical policy criteria do not apply.
- If a commercial product (including an Essential Plan or Child Health Plus product) covers a specific service, medical policy criteria apply to the benefit.
- If a Medicaid product covers a specific service, and there are no New York State Medicaid guidelines (eMedNY) criteria, medical policy criteria apply to the benefit.
- If a Medicare product (including Medicare HMO-Dual Special Needs Program (DSNP) product) covers a specific service, and there is no national or local Medicare coverage decision for the service, medical policy criteria apply to the benefit.
- If a Medicare HMO-Dual Special Needs Program (DSNP) product DOES NOT cover a specific service, please refer to the Medicaid Product coverage line.

POLICY HISTORY/REVISION

Committee Approval Dates

10/17/24, 06/26/25, 06/18/26

Date	Summary of Changes
06/18/26	• Annual review; several new intradiscal procedures were added to the investigational policy statement.
12/31/25	• Code edit, added 62330 and 62331 to replace 0275T. Policy intent unchanged
06/26/25	• Annual review, no changes to intent of the policy.
02/01/25	• Original effective date
01/01/25	• Summary of changes tracking implemented.