

# BENEFIT COVERAGE POLICY



**Title:** BCP-73 Spinal Cord (Dorsal Column) Stimulation for Pain Management

**Effective Date:** 07/01/2024

Physicians Health Plan  
PHP Insurance Company  
PHP Service Company

## Important Information - Please Read Before Using This Policy

The following coverage policy applies to health benefit plans administered by PHP and may not be covered by all PHP plans. Please refer to the member's benefit document for specific coverage information. If there is a difference between this general information and the member's benefit document, the member's benefit document will be used to determine coverage. For example, a member's benefit document may contain a specific exclusion related to a topic addressed in a coverage policy.

Coverage determinations for individual requests require consideration of:

1. The terms of the applicable benefit document in effect on the date of service.
2. Any applicable laws and regulations.
3. Any relevant collateral source materials, including coverage policies.
4. The specific facts of the particular situation.

Contact PHP Customer Service to discuss plan benefits more specifically.

### 1.0 Policy:

Health Plan considers spinal cord stimulators/dorsal column stimulators (SCS/DCS) medically necessary for the management of members with chronic pain and who meet the criteria listed below in the Clinical Determination Guidelines.

Services for spinal cord/dorsal column stimulators require authorization/approval prior to the health service being provided.

For all non-network covered services to be paid at the network benefit level except for emergency/urgent services, prior approval is required.

Refer to the member's benefit coverage document for specific benefit descriptions, guidelines, coverage, and exclusions. Pain Management services received from Non-Network providers may not be covered.

### 2.0 Background:

Dorsal column stimulators (DCS), also known as spinal cord stimulators or neuromodulation, are most commonly used for the management of failed back surgery syndrome. The use of DCS for controlling chronic low back pain (LBP) is a non-destructive, reversible procedure; thus, it is an attractive alternative for patients who may be facing or have already experienced neuroablative procedures or opioid medications.

Dorsal column stimulation is a therapy for chronic pain with organic origins and has not been shown to benefit problems which are largely behavioral or psychiatric. There is evidence that outcomes of DCS are improved if candidates are subject to psychological clearance to exclude from surgery persons with serious mental disabilities, psychiatric disturbances, or poor personality factors that are associated with poor outcomes.

National Institute for Health and Clinical Excellence's guideline on spinal cord stimulation for chronic neuropathic or ischemic pain (2008) recommended DCS for patients who continue to experience chronic neuropathic pain (e.g., failed back surgery syndrome after lumbar spine surgery and complex

regional pain syndrome) for at least six months despite trying conventional approaches to pain management. Patients should have had a successful trial of the therapy before a spinal cord stimulator is implanted.

Dorsal column stimulators have also been shown to be effective in the treatment of patients with angina pectoris patients who fail to respond to standard pharmacotherapies and are not candidates for surgical interventions. Patients should undergo a screening trial of percutaneous DCS for three to seven days. If they achieve significant pain reduction (more than 50%), the system is then implanted permanently. For this procedure, epidural electrodes are generally placed at an upper thoracic or lower cervical spinal level. Although the exact mode of action of DCS in alleviating anginal pain is unclear, it has been suggested that its beneficial effects are achieved through an increase in oxygen supply to the myocardium in addition to its analgesic effect.

### **3.0 Clinical Determination Guidelines:**

- A. This procedure initially involves a short-term trial (e.g., three to seven days) of percutaneous, temporary spinal cord stimulation prior to the subcutaneous, permanent implantation of the spinal cord stimulation device. This determines if the spinal cord stimulator device provides sufficient pain relief to deem it medically necessary.
- B. Spinal cord/dorsal column stimulators (SCS/DCS) are covered when used for FDA-approved indications as follows:
  1. Non-malignant pain – covered for management of chronic, intractable, non-malignant pain when the following criteria are met:
    - a. Failed back surgery syndrome (FBSS) with low back pain and significant radicular pain; OR
    - b. Complex regional pain syndrome (CRPS, also known as reflex sympathetic dystrophy); OR
    - c. Last resort treatment for moderate to severe (5 or more on a 10-point VAS scale) chronic neuropathic pain of certain origins refractory to six or more months of standard therapy (including non-steroidal anti-inflammatory drugs, tricyclic antidepressants, and anticonvulsants):
      - i. Diabetic neuropathy, or
      - ii. Lumbosacral arachnoiditis or radiculopathies, or
      - iii. Phantom limb/stump pain, or
      - iv. Peripheral neuropathy, or
      - v. Plexopathy, or
      - vi. Inoperable chronic ischemic limb pain due to peripheral vascular disease, or
      - vii. Post-herpetic neuralgia, or
      - viii. Intercostal neuralgia, or
      - ix. Cauda equina injury, or
      - x. Incomplete spinal cord injury.
  2. Angina – covered for the management of intractable angina in patients who are not surgical candidates and whose pain is unresponsive to all standard therapies when the following criteria are met:
    - a. Patient has angiographically documented significant coronary artery disease and is not a suitable candidate for revascularization procedures such as coronary artery bypass grafting (CABG) or percutaneous transluminal coronary angioplasty (PTCA), OR
    - b. Patient's angina pectoris is New York Heart Association (NYHA) Functional Class III (patients are comfortable at rest; less than ordinary physical activity causes fatigue,

palpitation, dyspnea, or anginal pain) or Class IV (symptoms of cardiac insufficiency or angina are present at rest; symptoms are increased with physical activity), OR

- c. Patient has had optimal pharmacotherapy for at least one month. Optimal pharmacotherapy includes the maximal tolerated dosages of at least two of the following anti-anginal medications: long-acting nitrates, beta-adrenergic blockers, or calcium channel antagonists; OR
- d. Criteria for exclusion from coverage of DCS in treating intractable angina pectoris include any of the following:
  - i. Myocardial infarction or unstable angina in the previous three months, or
  - ii. Significant valve abnormalities as demonstrated by echocardiography, or
  - iii. Somatic disorders of the spine leading to insurmountable technical problems in treatment with DCS.

3. Member must meet ALL the following criteria:

- a. Other more conservative methods of pain management have been tried and failed (e.g., non-steroidal, anti-inflammatory drugs, tricyclic antidepressants, local or regional nerve blocks, physical therapy, behavioral therapy); AND
- b. Patient is not a candidate for further surgical intervention; AND
- c. Member has been carefully screened, evaluated, and diagnosed by a multidisciplinary pain management team, which includes an evaluation by a mental health provider (e.g., face-to-face assessment with or without psychological questionnaires and/or psychological testing), reveals no evidence of an inadequately controlled mental health problem (e.g., alcohol or drug dependence, depression, psychosis) that would negatively impact the success of a spinal cord stimulator or contraindicate its placement; AND
- d. Member can operate the stimulating control device; AND
- e. For permanent SCS/DCS device implantation, significant ( $\geq 50\%$ ) reduction in pain has been demonstrated during the short-term trial use of a percutaneous spinal stimulation. (A trial of spinal cord stimulation requires prior authorization/approval.)

4. Standard supplies for either the trial or implantation of a spinal cord stimulator include:

- a. 16 electrodes and 2 percutaneous leads or 1 paddle lead as medically necessary. Spinal cord stimulation using more than this has not been proven more effective than standard spinal cord stimulation.
- b. Battery life for spinal cord stimulators can vary depending on the power settings. Most non-rechargeable implanted batteries can last five to seven years, while rechargeable batteries can last up to ten years.
- 5. The replacement of a malfunctioning SCS/DCS and/or battery/generator is considered medically necessary for an individual who meets ALL the above criteria, and the existing stimulator and/or battery/generator replacement are/is no longer under warranty.
- 6. Replacement of a functioning SCS/DCS with a high-frequency spinal cord stimulator is considered not medically necessary.

C. Spinal cord stimulation is not a covered benefit for the following as considered experimental, investigational, or unproven:

- 1. Pain and spasticity related to spinal cord injuries.
- 2. Radiation-induced brain injury or stroke.
- 3. Cervicalgia and other syndromes affecting cervical neck region.
- 4. Migraine headaches.

5. Chronic abdominal pain, pelvic pain, inguinal pain, visceral pain.
6. Rectal pain.
7. Gait disorders, including spinocerebellar ataxia and ataxia due to cerebrovascular disease.
8. Pain secondary to malignancy.
9. Patient fails multidisciplinary screening as detailed above.
10. 3D neural targeting spinal cord stimulation (no specific CPT code).

#### 4.0 Coding:

Prior Approval Legend: Y = All lines of business; N = None required; 1 = HMO/POS; 2 = EPO/PPO; 3 = ASO group L0000264; 4 = ASO group L0001269 Non-Union & Union; 5 = ASO group L0001631; 6 = ASO group L0002011; 7 = ASO group L0001269 Union Only; 8 = ASO group L0002184; 9 = ASO group L0002237, 10 = ASO L0002193.

<b>COVERED CODES</b>			
<b>Code</b>	<b>Description</b>	<b>Prior Approval</b>	<b>Benefit Plan Cost Share Reference</b>
63650	Percutaneous implantation of neurostimulator electrode array, epidural	Y	Professional Fees for Medical or Surgical Services
63655	Laminectomy for implantation of neurostimulator electrodes, plate/paddle, epidural	Y	Professional Fees for Medical or Surgical Services
63661	Removal of spinal neurostimulator electrode percutaneous array(s), including fluoroscopy, when performed	N	Professional Fees for Medical or Surgical Services
63662	Removal of spinal neurostimulator electrode plate/paddle(s) placed via laminotomy or laminectomy, including fluoroscopy, when performed	N	Professional Fees for Medical or Surgical Services
63663	Revision including replacement, when performed, of spinal neurostimulator electrode percutaneous array(s), including fluoroscopy, when performed	N	Professional Fees for Medical or Surgical Services
63664	Revision including replacement, when performed, of spinal neurostimulator electrode plate/paddle(s) placed via laminotomy or laminectomy, including fluoroscopy, when performed	N	Professional Fees for Medical or Surgical Services
63685	Insertion or replacement of spinal neurostimulator pulse generator or receiver, direct or inductive coupling	Y	Professional Fees for Medical or Surgical Services
63688	Revision or removal of implanted spinal neurostimulator pulse generator or receiver	N	Professional Fees for Medical or Surgical Services
95970	Electronic analysis of implanted neurostimulator pulse generator system...simple or complex brain, spinal cord, or peripheral... neurostimulator pulse generator/transmitter, w/o programming	N	Professional Fees for Medical or Surgical Services
95971	... simple spinal cord, or peripheral neurostimulator pulse genera/transmitter, with intraoperative or subsequent	N	Professional Fees for Medical or Surgical Services

<b>COVERED CODES</b>			
<b>Code</b>	<b>Description</b>	<b>Prior Approval</b>	<b>Benefit Plan Cost Share Reference</b>
	programming		
95972	...complex spinal cord, or peripheral neurostimulator pulse generator/transmitter, with intraoperative or subsequent programming	N	Professional Fees for Medical or Surgical Services
0784T	Insertion or replacement of spinal integrated nerve stimulating system with electrode array, accessed through the skin	Y	Professional Fees for Medical or Surgical Services
0785T	Revision or removal of spinal integrated nerve stimulating system with electrode array	N	Professional Fees for Medical or Surgical Services
0788T	Electronic analysis with simple programming of spinal or sacral integrated nerve stimulating system	N	Professional Fees for Medical or Surgical Services
0789T	Electronic analysis with complex programming of spinal or sacral integrated nerve stimulating system	N	Professional Fees for Medical or Surgical Services
A4290	Sacral nerve stimulation test lead, each	Y	Durable Medical Equipment (DME)
C1767	Generator, neurostimulator (implantable), non-rechargeable	N	Durable Medical Equipment (DME)
C1778	Lead, neurostimulator (implantable)	N	Durable Medical Equipment (DME)
C1787	Patient programmer, neurostimulator	N	Durable Medical Equipment (DME)
C1816	Receiver and/or transmitter, neurostimulator (implantable)	N	Durable Medical Equipment (DME)
C1820	Generator, neurostimulator [implantable], with rechargeable battery and charging system	N	Durable Medical Equipment (DME)
C1822	Generator, neurostimulator (implantable), high frequency, with rechargeable battery and charging system	N	Durable Medical Equipment (DME)
C1883	Adaptor/extension, pacing lead or neurostimulator lead (implantable)	N	Durable Medical Equipment (DME)
C1897	Lead, neurostimulator test kit (implantable)	Y	Durable Medical Equipment (DME)
L8678	Electrical stimulator supplies (external) for use with implantable neurostimulator, per month	Y	Durable Medical Equipment (DME)
L8679	Implantable neurostimulator; pulse generator, any type	N	Durable Medical Equipment (DME)
L8680	Implantable neurostimulator electrode, each	N	Durable Medical Equipment (DME)
L8681	Patient programmer (external) for use with implantable programmable neurostimulator pulse generator, replacement only	Y	Durable Medical Equipment (DME)
L8682	Implantable neurostimulator radiofrequency receiver	Y	Durable Medical Equipment (DME)

<b>COVERED CODES</b>			
<b>Code</b>	<b>Description</b>	<b>Prior Approval</b>	<b>Benefit Plan Cost Share Reference</b>
L8683	Radiofrequency transmitter (external) for use with implantable neurostimulator radiofrequency receiver	Y	Durable Medical Equipment (DME)
L8684	Radiofrequency transmitter (external) for use with implantable sacral root neurostimulator receiver for bowel and bladder management, replacement	Y	Durable Medical Equipment (DME)
L8685	Implantable neurostimulator pulse generator, single array, rechargeable, includes extension	Y	Durable Medical Equipment (DME)
L8686	Implantable neurostimulator pulse generator, single array, non-rechargeable, includes extension	Y	Durable Medical Equipment (DME)
L8687	Implantable neurostimulator pulse generator, dual-array, rechargeable, includes extension	N	Durable Medical Equipment (DME)
L8688	Implantable neurostimulator pulse generator, dual-array, non-rechargeable, includes extension	Y	Durable Medical Equipment (DME)
L8689	External recharging system for battery (internal) for use with implantable neurostimulator, replacement only	Y	Durable Medical Equipment (DME)
L8695	External recharging system for battery (external) for use with implantable neurostimulator, replacement only	Y	Durable Medical Equipment (DME)

<b>ICD-10 DIAGNOSIS CODES (list is not all-inclusive)</b>	
<b>Code</b>	<b>Description</b>
A52.11	Tabes dorsalis
B02.21 – B02.29	Zoster [herpes zoster] with other nervous system involvement
G03.9	Meningitis, unspecified [lumbar arachnoiditis]
G11.0 – G11.9	Hereditary ataxia
G54.6 – G54.7	Phantom limb syndrome
G90.50 – G90.59	Complex regional pain syndrome I
I20.0 – I20.9	Angina pectoris
I49.01	Ventricular fibrillation
I73.00 – I73.9	Other peripheral vascular diseases [with chronic ischemic limb pain]
M96.1	Post laminectomy syndrome, not elsewhere classified [failed back surgery syndrome]
R26.0 – R27.9	Abnormalities of gait and mobility and other lack of coordination
S22.000+ - S22.089+	Fracture of thoracic and lumbar vertebra, sacrum, and coccyx [must be billed as an incomplete spinal cord injury code]
S32.000+ - S32.2xx+	Subluxation and dislocation of thoracic and lumbar vertebra, sacrum, and coccyx
S23.100+ - S23.171+	Incomplete spinal cord lesion
S33.100+ - S33.39x+	Injury of cauda equina

**ICD-10 DIAGNOSIS CODES (list is not all-inclusive)**

Code	Description
S24.151+ - S24.159+	Tabes dorsalis
S34.121+ - S34.129+	Zoster [herpes zoster] with other nervous system involvement
S34.132+	Meningitis, unspecified [lumbar arachnoiditis]
S34.3xx+	Hereditary ataxia

**5.0 Unique Configuration/Prior Approval/Coverage Details:**

None.

**6.0 Terms & Definitions:**

Complex regional pain syndrome (CRPS) – A type of neuropathic pain that can develop spontaneously or after a stroke, spinal cord injury, surgery, or peripheral trauma. Type I is known as reflex sympathetic dystrophy (RSD), which describes cases with no nerve injury. Type II is called causalgia and refers to cases with distinct nerve injury.

Diabetic peripheral neuropathy – Nerve damage in diabetic patients that affects the toes, feet, and hands.

Failed back surgery syndrome (FBSS) – Is not actually a syndrome; it is a very generalized term that is often used to describe a condition of patients who have not had a successful result with back or spine surgery and have experienced continued pain after surgery. Some types of back surgery are far more predictable in terms of alleviating a patient's symptoms than others. The best way to avoid a spine surgery that leads to an unsuccessful result is to stick to operations that have a high degree of success and to make sure that an anatomic lesion that is amenable to surgical correction is identified preoperatively

Implanted pulse generator (IPG) – A small, battery-operated power source which is implanted under the skin (around the abdomen or buttocks) or worn externally. The IPG contains the battery and electronics to generate the electrical signals for the stimulation. It is programmed by the clinician using a computer, but on a day-to-day basis the stimulation can be switched "on" and "off" by the patient using a hand-held programmer

Intractable pain – Chronic, non-malignant pain in which the cause cannot be removed or otherwise treated, and no relief or cure has been found after reasonable efforts.

Laminectomy – Surgical procedure to remove a portion of the lamina of the vertebral body.

Neuropathic pain – A complex and chronic pain state that is neurologic in origin. The nerve fibers themselves are damaged, injured, or dysfunctional. Neuropathic pain often seems to have no obvious cause, but some common causes can include: diabetic neuropathy, shingles, phantom limb pain, trigeminal neuralgia, spinal surgery, also known as failed back surgery syndrome (FBSS), alcoholism, and chemotherapy. Neuropathic pain responds poorly to standard pain therapies, can last indefinitely and even increase over time, and often results in severe disability. See also Complex Regional Pain Syndrome

Paresthesia – A burning, prickling, or tingling sensation or numbness that is usually felt in the hands, arms, legs, or feet; sometimes felt when there is prolonged pressure placed on a nerve.

Percutaneous electrode – A device through which electric current passes. In spinal cord stimulation, an electrode is surgically placed in the epidural space of the spinal column to stimulate spinal nerves

Phantom limb pain/ syndrome – A form of nerve pain (neuropathy, neuralgia, neuritis) appearing to arise from an area of the body that has been surgically or traumatically amputated. 50 – 80% of amputees experience phantom limb pain. It is most commonly seen following amputation of the arm and leg but may also occur following surgery to remove breasts, eyes, testicles, and even internal

organs. Common complaints include cramping, burning, shooting, or stabbing-type pain or a sensation that the amputated limb is in a distorted, painful position.

Radicular pain or radiculitis – Pain experienced along the dermatome (or sensory distribution) of a nerve due to pressure on the nerve root. Also known as sciatica. A common form of radiculitis radiates along the sciatic nerve from the lower spine to the lower back, gluteal muscles, back of the upper thigh, calf, and foot as often caused by nerve root compression from a lumbar disc herniation or osteophytes in the lumbar region of the spine.

Reflex sympathetic dystrophy – A form of complex regional pain syndrome, Type I.

Spinal cord stimulator (SCS) – An electrical device that has 4 parts: a pulse generator, electrode(s), lead wires and a hand-held controller.

**7.0 References, Citations & Resources:**

2. Hayes Technology Directory, Spinal Cord Stimulation for Relief of Neuropathic Pain, Jan. 18, 2022
3. Hayes Evidence Analysis Research Brief, Spinal Cord Stimulation for the Management of Idiopathic Neuropathy, March 18, 2022.
4. Medscape, Spinal Cord Stimulation Technique, Aug. 7, 2018. Available at: <http://emedicine.medscape.com/article/1980819-technique>.

**8.0 Associated Documents [For internal use only]:**

Policies & Procedures (P&P): MMP-09 Benefit Determinations MMP-02 Transition and Continuity of Care ; UMPP-02 Peer to Peer Conversations

Standard Operating Procedure (SOP) – MMS-03 Algorithm for Use of Criteria for Benefit Determinations, MMS-45 UM Nurse Review, MMS-52 Inpatient Case Process in CCA; MMS-53 Outpatient Case Process in CCA

Sample Letter – TCS Approval Letter; Clinically Reviewed Exclusion Letter; Partial Coverage, Partial Non-Coverage Letter; Specific Exclusion Denial Letter, Lack of Information Letter

Form – Request Form: Out of Network/ Prior Authorization.

**9.0 Revision History**

Original Effective Date: 07/12/2006

Next Revision Date: 07/01/2025

Revision Date	Reason for Revision
12/15	Revised format, added criteria for angina and ICD-10 codes, CPT/HCPCS codes updated.
2/16	Definition added for Failed Back Surgery Syndrome
12/16	Annual review – removed references to Medicaid/DHHS, updated references and resources, added language regarding trial and replacement of implantable device
12/17	Converted from Medical Policy 007 to Benefit Coverage Policy format.
11/17	Annual review and approval by QI/MRM 12/13/17 – updated references and code status changes for DME.
4/18	Initial review by BCC – code status and references updated.
6/19	Annual review; citations updated, approved by QI/MRM 8/14/19.
4/20	Annual review; updated references and formatting, additional criteria added to 3.0 B, trial of SCS no longer requires PA, approved by BCC 7/6/20
4/21	Annual review; PA added back on to SCS trial
4/22	Annual review, formatting, and references updated. Added ASO group L0002237
4/23	Annual review; added 10 = ASO L0002193 to Section 4.0 PA legend; updated Sec 8.0 Associated Documents; added new code L8678. Updated benefit cost



Revision Date	Reason for Revision
	share reference for codes: C1767, C1816, C1820, C1822, L8678-80 and L8685-88.
4/24	Annual review; Changed L8679, L8680 and L8687 from PA to C due them being "incidental to the main procedure. Added 1/1/24 codes: 0784T, 0785T, 0788T, and 0789T to the Covered Code section. Updated Associated Documents. Pending MMC Approval.
6/24	Policy presented and approved at the Medical Management Committee on 6/12/2024.