

Spinal Cord Stimulators

(Dorsal Column Stimulators)

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Developed By: Medical Necessity Criteria Committee

I. Description

Spinal cord stimulators, also known as dorsal column stimulators, deliver low voltage electrical stimulation to the dorsal columns of the spinal cord in order to block pain sensations. These devices consist of a lead that delivers the electrical stimulation to the spinal cord, an extension wire that conducts the electrical stimulation from the power source to the lead, and a power source which generates the electrical stimulation. Totally implantable spinal cord stimulators are most commonly used; however, there are also spinal cord stimulators which rely on radio frequency and include a transmitter and an antenna which are carried outside the body and a receiver, which is implanted inside the body. Implantation of the spinal cord stimulator is generally a two-step process. This process includes a trial period of stimulation in which an electrode is temporarily implanted in the epidural space. Once treatment is deemed effective, through a significant reduction in pain, the spinal cord stimulator is permanently implanted. Successful spinal cord stimulation may require extensive programming of the neurostimulators to identify the optimal electrode combinations and stimulation channels. Spinal cord stimulator placement is a non-destructive, reversible procedure and thus is often an attractive alternative for patients who have failed other treatment and surgical options.

II. Criteria: CWQI HCS-0063A

- A. Moda Health covers spinal cord stimulators for **1 or more** of the following indications:
 - a. Moda Health will cover <u>a trial (3-7 days) of spinal cord stimulation</u> for intractable pain to plan limitations when **All** of the following criteria are met:
 - i. Pain is neuropathic with documented pathology related to pain complaint (i.e. abnormal MRI) for 1 or more of the following:
 - 1. Failed back surgery syndrome (FBSS)
 - 2. Complex regional pain syndrome (also known as reflex sympathetic dystrophy)
 - 3. Inoperable chronic ischemic limb pain secondary to peripheral vascular disease
 - After at least 12 months of standard therapy with NSAIDs, tricyclic antidepressants, and anticonvulsants (unless contraindicated or unable to tolerate), patient still has moderate to severe chronic neuropathic pain (≥ 5 on a 10 point VAS scale) originating from one of the following:
 - a. Lumbosacral Arachnoiditis

- b. Radiculopathies
- c. Phantom limb/stump pain
- d. Peripheral neuropathy
- e. Post-herpetic neuralgia
- f. Intercostal neuralgia
- g. Incomplete spinal cord injury
- h. Cauda equina injury
- i. Plexopathy
- ii. Other more conservative methods of pain management have been tried and failed including **1 or more** of the following:
 - 1. Pharmacological (including NSAIDs, tricyclic antidepressants, and anticonvulsants unless contraindicated or unable to tolerate)
 - 2. Physical therapy
 - 3. Psychological or cognitive behavioral therapies
- iii. Patient is not a candidate for further surgical intervention
- iv. Patient does not have any untreated existing drug addiction problems
- v. Patient is capable of operating stimulating device and willing to comply with the treatment plan
- vi. Patient has had a face-to-face evaluation by a psychologist or psychiatrist and cleared for a trial of SCS
- b. Moda Health will cover the <u>permanent placement of a spinal cord stimulator</u> when **All** of the following criteria are met:
 - i. Patient has experienced significant pain reduction of 50% or more with a temporary trial of 3-7 days. (A spinal cord stimulator trial is considered medically necessary for patients who meet the above-listed criteria)
 - ii. Patient has met criteria for trial placement of a spinal cord stimulator
 - iii. Patient is capable of operating stimulating device and willing to comply with treatment plan
- c. Moda Health will cover a <u>trial of spinal cord stimulation for the management of intractable</u> <u>angina</u> when **All** of the following criteria are met:
 - i. Angina is New York Heart Association functional Class III (Symptoms with minimal exertion) or Class IV (Symptoms at rest); and
 - Patient has documented significant coronary artery disease (CAD) and is not a suitable candidate for revascularization procedures such as coronary artery bypass grafting or coronary angiography
 - Optimal pharmacological treatment has failed to adequately improve anginal symptoms (e.g. long-acting nitrates, beta-adrenergic blockers, or calcium channel antagonists)
 - iv. Patient does not have any untreated existing drug addiction problems
 - v. Patient is capable of operating stimulating device and willing to comply with the treatment plan
 - vi. Patient has had a face-to-face evaluation by a psychologist or psychiatrist and cleared for a trial of SCS.

- d. Moda Health will cover the <u>permanent placement of an implantable spinal cord stimulator</u> <u>for the management of intractable angina</u> for **All** of the following:
 - i. Patient has experienced significant pain reduction of 50% or more with a 3-7 day trial of a temporarily implanted electrode. (A trial of spinal cord stimulation for the management of angina is considered medically necessary for patients who meet the above-listed criteria).
 - ii. Patient has met criteria for trial placement of a spinal cord stimulator
- e. <u>Request for Peripherally implanted nerve stimulation (also known as Percutaneous electrical</u> <u>nerve stimulation {PENS}</u>)
- Please refer to Electrical Stimulation Devices (for home use) CWQI: HCS-0027f. Request for Occipital Nerve Stimulators for chronic headache or cervicogenic pain Please
 - refer to CWQI A-0716 Occipital Nerve Stimulation

III. Information Submitted with the Prior Authorization Request:

- 1. History and physical documenting objective basis for patient's pain
- 2. Angiography results documenting significant coronary artery disease (for patients who are receiving spinal cord stimulation for management of angina)
- 3. Record of conservative treatment tried including patient response to treatment
- 4. Documentation of clearance by a psychologist or psychiatrist
- 5. Patient's response to spinal cord stimulator trial if request is for a permanent SCS

Codes	Description
63650	Percutaneous implantation of neurostimulator electrode array, epidural
63655	Laminectomy for implantation of neurostimulator electrodes, plate/paddle, epidural
63663	Revision of spinal neurostimulator electrode plate/paddle(s) placed via laminotomy or laminectomy, including fluoroscopy, when performed
63685	Insertion or replacement of spinal neurostimulator pulse generator or receiver, direct or inductive coupling
64555	Peripheral nerve (excludes sacral nerve)
64561	Sacral nerve (transforaminal placement), including image guidance, if performed
64590	Insertion or replacement of peripheral or gastric neurostimulator pulse generator or receiver, direct or inductive coupling
95970	Electronic analysis of implanted neurostimulator pulse generator system (e.g., rate, pulse amplitude and duration, configuration of wave form, battery status, electrode selectability, output modulation, cycling, impedance and patient compliance measurements); simple or complex brain, spinal cord, or peripheral (i.e., cranial nerve, peripheral nerve, autonomic nerve, neuromuscular) neurostimulator pulse generator/transmitter, without reprogramming
95971	Electronic analysis of implanted neurostimulator pulse generator system (e.g., rate, pulse amplitude and duration, configuration of wave form, battery status, electrode selectability, output modulation, cycling, impedance and patient compliance measurements); simple spinal cord, or peripheral (i.e., peripheral nerve, autonomic

IV. CPT or HCPC codes covered:

	nerve, neuromuscular) neurostimulator pulse generator/transmitter, with	
	intraoperative or subsequent programming.	
95972	Electronic analysis of implanted neurostimulator pulse generator system (e.g., rate,	
	pulse amplitude and duration, configuration of wave form, battery status,	
	electrode selectability, output modulation, cycling, impedance and patient	
	compliance measurements); complex spinal cord, or peripheral (except cranial	
	nerve) neurostimulator pulse generator/transmitter, with intraoperative or	
	subsequent programming, first hour	
C1778	Lead, neurostimulator (implantable)	
C1787	Patient programmer, neurostimulator	
C1820	Generator, neurostimulator (implantable), with rechargeable battery and charging system	
L8680	Implantable neurostimulator electrode, each	
L8682	Implantable neurostimulator radiofrequency receiver	
L8683	Radiofrequency transmitter (external) for use with implantable	
	neurostimulator radiofrequency receiver	
L8685	Implantable neurostimulator pulse generator, single array, rechargeable, includes extension	
L8686	Implantable neurostimulator pulse generator, single array, non-rechargeable,	
	includes extension	
L8687	Implantable neurostimulator pulse generator, dual array, rechargeable, includes extension	
L8688	Implantable neurostimulator pulse generator, dual array, non-rechargeable,	
	includes extension	
0784T	Insertion or replacement of percutaneous electrode array, spinal, with integrated	
	neurostimulator, including imaging guidance, when performed	
0786T	Insertion or replacement of percutaneous electrode array, sacral, with integrated	
	neurostimulator, including imaging guidance, when performed	

V. Annual Review History

Review Date	Revisions	Effective Date
05/2013	Annual Review: Added table with review date, revisions, and effective date. Added occipital nerve stimulator for headaches as E/I	05/2013
07/2014	Annual Review: No change	07/2014
09/2015	Annual Review: ICD-10 codes, Updated criteria to meet CMS guideline	09/2015
03/2016	Updated to include CWQI and CMS guidelines in criteria	03/24/2016
06/2017	Annual Review: Updated to new template and minor formatting changes	07/01/2017
8/2018	Annual Review: Added additional chronic neuropathic pain condition.	08/22/2018
5/2019	Annual Review: Updated the criteria by adding specified time period in which a trial of spinal cord stimulation would be covered. Specified the conservative methods of pain management to be considered. Added and updated the criteria to be	06/01/2019

	considered for coverage when trial of spinal cord stimulation for the	
	management of intractable angina is requested.	
5/2020	Annual Review: No content changes. Removed deleted codes	06/01/2020
6/2021	Annual Review: No content change	07/01/2021
5/2022	Annual Review: No content change	06/01/2022
06/2023	Annual Review: No changes	07/01/2023
06/2024	Annual Review: Updated CPT codes, no content changes	07/01/2024

VI. References

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- Centers for Medicare & Medicaid Services; National Coverage Determination (NCD) for Electrical Nerve Stimulators (160.7); Effective Date 8/7/1995

• Physician Advisors

Codes	Description
B02.29	Other postherpetic nervous system involvement
G03.1	Chronic meningitis
G54.0-G54.9	Nerve root and plexus disorders
G56.4-G56.42	Causalgia of upper limb
G56.8-G56.92	Other specified mononeuropathies of unspecified upper limb
G57.70-G57.72	Causalgia of lower limb
G57.80-G57.9	Other specified mononeuropathies of lower limb
G89.2-G89.4	Chronic pain, not elsewhere classified
G90.50-G90.9	Complex regional pain syndrome I (CRPSI)
120.0	Unstable angina
170.22-170.229	Atherosclerosis of native arteries of extremities with rest pain
173.9	Peripheral vascular disease, unspecified
M54.10	Radiculopathy, site unspecified
M54.12	Radiculopathy, cervical region
M54.13	Radiculopathy, cervicothoracic region
M54.14	Radiculopathy, thoracic region
M54.15	Radiculopathy, thoracolumbar region
M54.16	Radiculopathy, lumbar region
M54.17	Radiculopathy, lumbosacral region
M54.30-M54.32	Sciatica
M79.2	Neuralgia and neuritis, unspecified
M96.1	Postlaminectomy syndrome, not elsewhere classified
R52	Pain, unspecified
S34.3XXS	Injury of cauda equine
S14.2XXA	Injury of nerve root of cervical spine
S24.2XXA	Injury of nerve root of thoracic spine, initial encounter
S34.21XA	Injury of nerve root of lumbar spine, initial encounter
S34.22XA	Injury of nerve root of sacral spine, initial encounter
T87.9	Unspecified complications of amputation stump

Appendix 1 – Applicable ICD-10 diagnosis codes:

Appendix 2 – Centers for Medicare and Medicaid Services (CMS)

Medicare coverage for outpatient (Part B) drugs is outlined in the Medicare Benefit Policy Manual (Pub. 100-2), Chapter 15, §50 Drugs and Biologicals. In addition, National Coverage Determination (NCD) and Local Coverage Determinations (LCDs) may exist and compliance with these policies is required where applicable. They can be found at: <u>http://www.cms.gov/medicare-coverage-database/search/advanced-search.aspx</u>. Additional indications may be covered at the discretion of the health plan.

Medicare Part B Covered Diagnosis Codes (applicable to existing NCD/LCD):

Jurisdiction(s): 5, 8	NCD/LCD Document (s):	
National Coverage Determination 160.7 Electrical Nerve Stimulators		
https://www.cms.gov/medicare-coverage-database/details/ncd-		
details.aspx?NCDId=240&ncdver=1&DocID=160.7&kq=true&bc=gAAAABAAAAAAAAA3d%3d%3d&		

NCD/LCD Document (s):

Medicare Part B Administrative Contractor (MAC) Jurisdictions				
Jurisdiction	Applicable State/US Territory	Contractor		
F (2 & 3)	AK, WA, OR, ID, ND, SD, MT, WY, UT, AZ	Noridian Healthcare Solutions, LLC		