

## MEDICAL POLICY STATEMENT GEORGIA MEDICAID

Policy Name	Policy Number	Date Effective
Implantable Spinal Cord Stimulator	MM-0812	02/01/2020-12/31/2020
Policy Type		
<b>MEDICAL</b>	Administrative	Pharmacy
		Reimbursement

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## A. Subject

### Implantable Spinal Cord Stimulator

## B. Background

Spinal cord (dorsal column) stimulation (SCS) is a pain relief technique that delivers a low-voltage electrical current to the spinal cord to block the sensation of pain. This technique is best suited for pain that is neuropathic in nature i.e., resulting from actual damage to the peripheral nerves. Common indications include, but are not limited to, failed back surgery syndrome, complex regional pain syndrome (i.e., reflex sympathetic dystrophy), arachnoiditis, radiculopathies, phantom limb/stump pain and peripheral neuropathy. SCS is generally not effective in treating nociceptive pain (resulting from irritation, not damage to the nerves) and central deafferentation pain (related to central nervous system damage from a stroke or spinal cord injury).

Two stages are involved in SCS implantation. In both stages, a physician, guided by an x-ray, places a lead into the epidural space located within the bony spinal canal.

The first stage consists of a short trial (e.g., 3-14 days) with a temporary percutaneous implantation of neurostimulator electrode(s) and external generator for assessing the patient's suitability for ongoing treatment with a permanent surgically implanted nerve stimulator. During the trial phase, one or two leads are placed via an epidural needle in the appropriate position. This can be done under light sedation in an office setting if all the sterility, equipment, professional training and support personnel required for the proper surgery and follow up of the patient are available. If at least 50% pain relief is achieved during the trial phase, the temporary system may be transitioned to a permanent system. Performance and documentation of an effective trial is a prerequisite for permanent nerve stimulation.

In the permanent implantation stage, there are two different SCS systems routinely used. The first system uses percutaneous insertion of electrodes into the epidural space and subcutaneous connection to a neurostimulator. The second system involves the implantation of paddle-type leads into the epidural space after laminectomy and subcutaneous connection to a neurostimulator. Neurostimulators may be either Implantable Pulse Generators (IPGs), which use either a non-rechargeable or a rechargeable internal battery, or radio frequency devices, which receive energy in the form of radio frequency pulses from an external device powered by a rechargeable battery. The appropriate SCS system with up to 16 contacts/electrodes will depend on the underlying condition, the patient's pain patterns, the area of body affected, and the amount and intensity of stimulation required. Permanent neurostimulators must be placed in an Ambulatory Surgical Center (ASC) or hospital.

There is evidence that outcomes of SCS are improved if candidates are subject to psychological clearance to exclude from surgery persons with serious mental illness (SMI), psychiatric disturbances, or poor personality factors that are associated with poor outcomes. Literature supports pre-surgical psychological clearance for SCS.



Failed back surgery syndrome (FBSS) and Chronic Regional Pain Syndrome (CRPS) are the 2 most common indications for SCS placement. After randomizing 100 FBSS patients to either SCS plus conventional medical management or conventional medical management alone, the results of the 6-month Prospective Randomized Controlled Multicenter Trial of the Effectiveness of Spinal Cord Stimulation (PROCESS Trial) found that SCS offered superior pain relief, health-related quality of life, and functional capacity. Other investigators reported that SCS provided adequate pain relief in patients with FBSS with predominant LBP and secondary radicular pain. Harney et al report that there is significant evidence to support the SCS in the management of CRPS.

Non-surgical interventional therapies for LBP were reviewed by the American Pain Society, concluding that there is fair evidence that SCS placement is moderately effective for FBSS with persistent radiculopathy, while acknowledging that device-related complications are common.

In a 20-year literature review, implanted SCS devices showed a favorable, long-term symptomatic effect for patients with refractory angina pain, severe chronic ischemic limb pain secondary to peripheral vascular disease, peripheral neuropathic pain, and chronic LBP. A Cochrane review reports that SCS placement improves outcomes over standard conservative treatment in limb salvage and clinical response for patients with inoperable chronic critical leg ischemia. In addition, evidence supports SCS placement for the refractory neuropathic pain, CRPS, angina pectoris and critical limb ischemia. However, a review in 2009 did not address chronic painful diabetic neuropathy (CPDN), and currently there is inadequate evidence to support the use of SCS for this indication.

A systematic review of medical or surgical treatments in patients in chronic vegetative state (VS) or minimally conscious state (MCS) was evaluated in 16 eligible papers. Case reports of medical management by dopaminergic agents (levodopa, amantadine), zolpidem and median nerve stimulation, or surgical management by deep brain stimulation, extra-dural cortical stimulation, SCS and intra-theal baclofen have variably improved the level of consciousness in selected cases. The authors concluded that treatments proposed for disorders of consciousness are yet to achieve an "evidence-based treatment". At present, the published case reports of therapeutic responses require substantiation by further clinical studies of sound scientific methodology.

Lumbar or thoracic dorsal column SCS has been proposed for the treatment of numerous other conditions (e.g., diabetic neuropathies, phantom limb pain, movement disorders, ataxia, and brain lesions), however there is insufficient evidence to support SCS for these conditions. Studies investigating SCS for various other conditions are limited in number and consist of case reports, small case series and retrospective reviews. Outcomes have been conflicting or have reported no significant improvement with SCS. There is also insufficient evidence in the published peer-reviewed scientific literature to support the safety and efficacy of cervical placement of a spinal cord stimulator for any indication. Studies are primarily in the form of case reports and case series with small, heterogeneous patient populations and short-term follow-ups. Studies comparing cervical placement of SCS compared to other established treatment modalities are lacking. Patient selection criteria and clinical application have not been established.



**Professional Society Recommendations:** The following professional society's recommendations are derived from the latest guidelines and scientific based literature available

**American College of Physicians (ACP) & American Pain Society (APS) (October 2007)**

Diagnosis and Treatment of Low Back Pain: A Joint Clinical Practice Guideline from the American College of Physicians and the American Pain Society.

- Clinicians should conduct a focused history and physical examination to help place patients with low back pain into 1 of 3 broad categories: nonspecific low back pain, back pain potentially associated with radiculopathy or spinal stenosis, or back pain potentially associated with another specific spinal cause. The history should include assessment of psychosocial risk factors, which predict risk for chronic disabling back pain
- Clinicians should not routinely obtain imaging or other diagnostic tests in patients with nonspecific low back pain
- Clinicians should perform diagnostic imaging and testing for patients with low back pain when severe or progressive neurologic deficits are present or when serious underlying conditions are suspected on the basis of history and physical examination
- Clinicians should evaluate patients with persistent low back pain and signs or symptoms of radiculopathy or spinal stenosis with magnetic resonance imaging (preferred) or computed tomography only if they are potential candidates for surgery or epidural steroid injection
- Clinicians should provide patients with evidence-based information on low back pain with regard to their expected course, advise patients to remain active, and provide information about effective self-care options
- For patients with low back pain, clinicians should consider the use of medications with proven benefits in conjunction with back care information and self-care. Clinicians should assess severity of baseline pain and functional deficits, potential benefits, risks, and relative lack of long-term efficacy and safety data before initiating therapy. For most patients, first-line medication options are acetaminophen or nonsteroidal anti-inflammatory drugs
- For patients who do not improve with self-care options, clinicians should consider the addition of nonpharmacological therapy with proven benefits—for acute low back pain, spinal manipulation; for chronic or subacute low back pain, intensive interdisciplinary rehabilitation, exercise therapy, acupuncture, massage therapy, spinal manipulation, yoga, cognitive-behavioral therapy, or progressive relaxation

**American College of Physicians (ACP) (April 2017)**

The ACP's recommendations for Noninvasive Treatments for Acute, Subacute and Chronic Low Back Pain: A Clinical Practice Guideline are as follows:

- Clinicians and patients should select nonpharmacological treatment with superficial heat (moderate-quality evidence), massage, acupuncture, or spinal manipulation (low-quality evidence). If pharmacologic treatment is desired, clinicians and patients should select nonsteroidal anti-inflammatory drugs or skeletal muscle relaxants (moderate-quality evidence)
- Clinicians and patients should initially select nonpharmacological treatment with exercise, multidisciplinary rehabilitation, acupuncture, mindfulness-based stress reduction, tai chi, yoga, motor control exercise, progressive relation, electromyography biofeedback, low –level laser therapy, operant therapy, cognitive behavioral therapy or spinal manipulation
- In patients with chronic low back pain who have had an inadequate response to nonpharmacological therapy, clinicians and patients should consider pharmacologic treatment with nonsteroidal anti-inflammatory drugs as first line therapy, or tramadol or duloxetine as second-line therapy. Clinicians should only consider opioids as an option



in patients who have failed the aforementioned treatments and only if the potential benefits outweigh the risks for individual patients and after a discussion of known risks and realistic benefits with patients

### C. Definitions

- **Implantable Spinal Cord Stimulator/Dorsal Column Stimulator:** Spinal cord (dorsal column) stimulation (SCS) is a pain relief technique that delivers a low-voltage electrical current to the spinal cord to block the sensation of pain
- **High Frequency Spinal Cord Stimulation:** Provides a higher frequency than traditional SCS. Operating at a frequency of 10,000 Hz as opposed to traditional SCS operating in a 40 – 60 Hz range
- **Visual Analog Scale (VAS):** A tool used to measure pain using a numerical straight line scale between 0-10 describing pain from mild, moderate to severe
- **Conservative therapy** is a multimodality plan of care. Start and end dates in the medical record substantiate duration of treatment. **Multimodality care plans include BOTH of the following:**
  - **Active conservative therapies** such as physical therapy, occupational therapy or a physician supervised home exercise program (HEP)
  - **Home Exercise Program (HEP):** includes two components that are both required to meet CareSource policy for completion of conservative therapy:
    - Information provided for an exercise prescription and/or plan documented in the medical record AND follow up documented in the medical record with member with information provided regarding completion of HEP, or inability to complete HEP due to a stated physical reason- i.e. increased pain, inability to physically perform exercises. (Patient inconvenience or noncompliance without explanation does not constitute “inability to complete”)
    - **Inactive conservative therapies** such as rest, ice, heat, medical devices, acupuncture, TENS unit, prescription medications.
      - If a TENS unit is part of the care plan, the frequency of use, and duration of use with dates must be documented in the medical record. General statements in the medical record such as “Patient has a TENS unit” do not document use, and will not suffice to meet this policy criterion
- **A TENS unit is a Transcutaneous Electrical Nerve Stimulator**, a durable medical equipment device dispensed by prescription. Its use, frequency, duration, and start dates must be documented in the medical record to be considered part of conservative therapy during the period of prior authorization request

### D. Policy

- I. Prior authorization is required for all implantable spinal cord stimulators, including short-term trial placement and permanent placement.
  - A. CareSource considers a **preliminary trial (3-14 days)** for implantable spinal cord stimulators medically necessary for **ONE** or **MORE** of the following conditions:
    1. Failed Back Surgery Syndrome (FBSS);
    2. Complex Regional Pain Syndrome (CRPS) or Reflex Sympathetic Dystrophy (RSD);
    3. Moderate to severe (5 or more on a 10 point Visual Analog Scale (VAS) scale); Neuropathic Pain;
    4. Limb Ischemia; and
    5. Chronic intractable Angina
  - B. CareSource considers a preliminary trial for implantable spinal cord stimulators medically necessary for **FBSS, CRPS, RSD, Limb Ischemia and Neuropathic pain** (moderate to severe) when **ALL** of the following criteria are met:





1. Pain pathology is documented
  2. Surgical intervention is not indicated
  3. Patients have undergone careful screening, evaluation and diagnosis by a multidisciplinary team prior to implantation
  4. Patients must undergo a psychological evaluation by a licensed mental health provider (e.g., a face-to-face assessment with or without psychological questionnaires and/or psychological testing) that reveals no evidence of an inadequately controlled mental health problem that would negatively impact the success of a SCS or contraindicate its placement, including:
    - a. Alcohol abuse
    - b. Drug abuse
    - c. Depression
    - d. Psychosis
  5. ACTIVE conservative therapy as part of a multimodality comprehensive approach is addressed in the patient's care plan with documentation in the medical record that includes at least **ONE** of the following:
    - a. The patient has received ACTIVE conservative therapy lasting for six (6) MONTHS or more within the past twelve (12) months with start and end dates in the medical record substantiating the duration of treatment including **ONE** of the following:
      - (1) Physical therapy
      - (2) Occupational therapy
      - (3) A physician supervised home exercise program (HEP) as defined in CareSource policy
    - OR**
    - b. The medical record documents at least **ONE** of the following exceptions to the 6 MONTHS ACTIVE conservative therapy requirement in the past 6 months:
      - (1) At least moderate pain with significant functional loss at work or home
      - (2) Severe pain unresponsive to outpatient medical management
      - (3) Inability to tolerate non-surgical, non-injection care due to co-existing medical condition(s)
  6. PASSIVE conservative therapy as part of a multimodality comprehensive approach is addressed in the patient's care plan with documentation in the medical record lasting for six (6) MONTHS or more within the past twelve (12) months with start and end dates in the medical record substantiating the duration of treatment including at least **ONE** of the following:
    - a. rest
    - b. ice
    - c. heat
    - d. medical devices (DME such as braces, walkers, crutches)
    - e. acupuncture
    - f. TENS unit use as defined in CareSource policy
    - g. Pain medications (RX or OTC) such as: non-steroidal anti-inflammatory drugs (NSAIDS), acetaminophen. Opioid narcotics are not required for consideration.
- C. CareSource considers a **permanently** placed SCS medically necessary when the patient has met **ALL** of the criteria above (B. 1-6) and at least a **50%** reduction in pain was achieved during the trial period and documented in the medical record.



- D. CareSource considers a **preliminary** trial for implantable spinal cord stimulators medically necessary for **Chronic Stable Angina Pectoris** when **ALL** of the following criteria are met:
1. Patient's angina pectoris is a Class III or Class IV on the New York Heart Association and Canadian Cardiovascular Society Functional Classifications
  2. Failure of satisfactory improvement of symptoms with optimal pharmacological treatment, including use of antianginal medications such as long acting nitrates, beta-adrenergic blockers and calcium-channel antagonists
  3. Patient is not a candidate for revascularization procedure (CABG or PTCA)
  4. Patients must undergo a psychological evaluation by a licensed mental health provider (e.g., a face-to-face assessment with or without psychological questionnaires and/or psychological testing) that reveals no evidence of an inadequately controlled mental health problem that would negatively impact the success of a SCS or contraindicate its placement, including:
    - a. Alcohol abuse
    - b. Drug abuse
    - c. Depression
    - d. Psychosis
- E. CareSource considers a **permanently** placed SCS medically necessary when the patient has met **ALL** of the criteria above (D. 1-4) and at least a **50%** reduction in pain was achieved during the trial period and documented in the medical record.

#### New York Heart Association and Canadian Cardiovascular Society Functional Classifications

Functional Capacity	Objective Assessment
<b>Class I.</b> Patients with cardiac disease but without resulting limitation of physical activity. Ordinary physical activity does not cause undue fatigue, palpitation, dyspnea, or anginal pain.	<b>A.</b> No objective evidence of cardiovascular disease.
<b>Class II.</b> Patients with cardiac disease resulting in slight limitation of physical activity. They are comfortable at rest. Ordinary physical activity results in fatigue, palpitation, dyspnea, or anginal pain.	<b>B.</b> Objective evidence of minimal cardiovascular disease.
<b>Class III.</b> Patients with cardiac disease resulting in marked limitation of physical activity. They are comfortable at rest. Less than ordinary activity causes fatigue, palpitation, dyspnea, or anginal pain.	<b>C.</b> Objective evidence of moderately severe cardiovascular disease.
<b>Class IV.</b> Patients with cardiac disease resulting in inability to carry on any physical activity without discomfort. Symptoms of heart failure or the anginal syndrome may be present even at rest. If any physical activity is undertaken, discomfort is increased.	<b>D.</b> Objective evidence of severe cardiovascular disease.

- II. Implantable Spinal Cord Stimulators are not medically necessary for members with **ANY** of the following contraindications:
- A. Active infection or sepsis;
  - B. Coagulopathy;
  - C. Major psychiatric disorders, including somatization;
  - D. Active and untreated substance abuse disorder; and



- E. Presence of other implanted programmable devices that may result in miscommunication between the devices impacting pump function. For example, patients who have another implanted device, such as a cardiac pacemaker (due to lack of research in patients with other implanted devices).
- III. Exclusions—CareSource considers SCS for **ANY** of the following experimental and investigational:
- A. The use of intra-operative motor evoked potentials (MEP) and somatosensory evoked potentials (SSEP)
  - B. Cervical placement of a spinal cord stimulator (SCS) for any indication
  - C. All other indications not mentioned above because its effectiveness for other indications has not been established, including:
    - 1. Members in a chronic vegetative or minimally conscious state;
    - 2. Chronic cancer-related pain;
    - 3. Chronic pelvic pain (chronic abdominal pain, chronic visceral pain);
    - 4. Gait disorders including spinocerebellar ataxia;
    - 5. Irritable bowel syndrome;
    - 6. Parkinson's disease;
    - 7. Sleep disorders;
    - 8. Sphincter of Oddi dysfunction;
    - 9. Types of chronic non-malignant non-neuropathic pain not mentioned above; and
    - 10. Ventricular fibrillation and ventricular tachycardia.
- IV. High Frequency
- A. CareSource considers high-frequency spinal cord stimulators an equal and effective alternative to standard spinal cord stimulators for the medically necessary indications listed above. Replacement of a functioning standard spinal cord stimulator with a high-frequency spinal cord stimulator is **NOT** considered medically necessary.
- V. Removal and Replacement
- A. CareSource covers the replacement of a lumbar or thoracic spinal cord stimulator (SCS) and/or battery/generator replacement, as medically necessary for the following:
    - 1. Existing stimulator and/or battery/generator are no longer under warranty and cannot be repaired. Lead and electrode replacement are not generally required at the time of generator replacement due to end of battery life.
      - a. Device interrogation reports with interpretation reports in the medical records must be acquired within a minimum 3 months of a prior authorization request and must be submitted with each prior authorization request for replacement.
  - B. CareSource considers removal of an SCS medically necessary even where installation would not have been indicated.





#### E. Conditions of Coverage

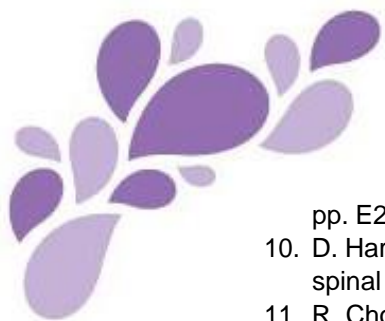
#### F. Related Policies/Rules

#### G. Review/Revision History

DATE		ACTION
Date Issued	02/01/2020	
Date Revised	TBD	
Date Effective	02/01/2020	
Date Archived	12/31/2020	This Policy is no longer active and has been archived. Please note that there could be other Policies that may have some of the same rules incorporated and CareSource reserves the right to follow CMS/State/NCCI guidelines without a formal documented Policy.

#### H. References

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**The Medical Policy Statement detailed above has received due consideration as defined in the Medical Policy Statement Policy and is approved.**

*Independent medical review – 5/2019*

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