

## Electric Stimulation, Medical 349

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**Member-specific benefits take precedence over medical policy and benefits may vary across plans. Refer to the individual's benefit plan for details.**

### Description & Definitions:

**Bone Growth Stimulators** are used to treat fractures and improve healing after injury or surgery.

**Deep brain stimulation (DBS)** is the use high-frequency electrical stimulation of electrodes implanted to regulate involuntary tremors or movements in an individual.

**Electrical-electromagnetic stimulation for wound healing** is composed of electrical stimulation and electromagnetic therapy. Electrical stimulation uses low electrical current through electrode attached to the skin to encourage wound healing. Electromagnetic therapy uses magnetic fields to stimulate wound healing.

**External Upper Limb Tremor Stimulator** Therapy, is a wrist-worn external upper limb device designed to aid in essential tremor symptom relief by applying Transcutaneous Afferent Patterned Stimulation (TAPS) to the nerves in the wrist.

**Dorsal root ganglion (DRG) stimulator** implanted to target the cell bodies of the nerves directly by electrical impulses sent to interrupt pain signals.

**Functional Electrical Stimulators (FES)** are surgically implanted and use electrical impulses during a task to stimulate nerves and muscles, causing them to contract and potentially restore function.

**Neuromuscular and Muscular Electrical Stimulation (NMES)** uses electrodes placed on the skin over or near the muscle group using electrical impulses to the motor nerves.

**Percutaneous electrical stimulation** places fine needle-like electrodes around that are placed percutaneously near a peripheral nerve. They may also involve the use of a needle-like introducer that inserts an electrode near a peripheral nerve. An electrical current drawn from an external pulse generator is delivered to the area, aiming to interfere with pain sensation. PENS devices are temporary and do not require invasive procedures to administer.

**Peripheral nerve field stimulators (PNFS)** differ from PNS in that they are subcutaneously inserted without surgical intervention, and work by creating overlapping stimuli fields to cover a region of smaller nonspecific nerves to induce paresthesia, which theoretically alters a patient's perception of pain.

**Peripheral Nerve Stimulator** is a minimally-invasive implanted receiver with electrodes that are placed around a peripheral nerve and an external transmitter is connected for transmitting the low frequency electrical pulses.

**Peripheral subcutaneous field stimulation** is a form of neuromodulation intended to treat chronic neuropathic pain

**Spinal Cord Stimulator (SCS)** also known as a **Dorsal column stimulator (DCS)** is an implanted device which electrodes are placed between the spinal cord and the vertebrae to send electrical pulses to block or modify pain signals to the brain.

**Transcutaneous Electrical Nerve Stimulator (TENS unit)** is a small device that delivers small doses of electrical current through electrodes on the skin to promote pain relief.

## Criteria:

**Electric Stimulators** (FDA approved devices only) are considered medically necessary for **ALL** of the following:

- Implantation type for **1 or more** of the following:
  - Trial Placement
  - Permanent placement
  - Durable Medical equipment
- Type of device is **1 or more** of the following:
  - **Bone Growth/Osteogenic Stimulation (Electric/ Electromagnetic)** considered medically necessary for **1 or more** of the following:
    - **Electrical bone growth stimulator** (non-invasive or invasive) for **1 or more** of the following:
      - **Spinal (bone growth) stimulator** for occipital-cervical, cervical, cervicothoracic, thoracic, thoracolumbar, lumbar and lumbosacral spinal regions with **1 or more** of the following:
        - Undergoing spinal fusion of two or more motion segments (3 vertebrae)
        - Undergoing a revision spinal fusion (eg, repeat surgery for a previously unhealed fusion attempt)
        - Smokers who cannot stop smoking in preparation for fusion due to the nature of the underlying condition(eg, acute traumatic fracture)
        - Undergoing primary lumbar fusion with **1 or more** of the following comorbidities:
          - Diabetes
          - Immunocompromised (eg, undergoing chemotherapy and radiation therapy to the spine, hypogammaglobulinemia, granulocytopenia, acquired immune deficiency syndrome, chronic granulomatous disease)
          - Inflammatory arthritis (eg, rheumatoid arthritis) that has required long-term corticosteroid therapy
          - Osteopenia or osteoporosis
          - Systemic vascular disease
    - **Non-spinal (bone growth) Stimulator** is used for the treatment of **1 or more** of the following:
      - Non-union fracture with **ALL** of the following:
        - Non-union is located in a long bone (i.e., clavicle, humerus, radius, ulna, femur, tibia, fibula, metacarpal or metatarsal bone) or the carpal and tarsal bones

- Fracture gap is  $\leq 1$  cm
  - Documented by at least two sets of appropriate imaging studies separated by a minimum of 90 days confirming that clinically significant fracture healing has not occurred
- Delayed unions of fractures or failed arthrodesis with minimum of 2 sets of radiographs, obtained prior to starting treatment with the osteogenic stimulator, separated by a minimum of 90 days
- Non-unions, failed fusions, and congenital pseudarthrosis with no X-ray evidence of progression of healing for 3 or more months (90 Days) despite appropriate fracture care
- Joint fusion secondary to failed surgical arthrodesis (e.g. knee, ankle, subtalar, foot fusion) when performed immediately following revision surgery with **1 or more** of the following:
  - Active metabolic bone disease that cannot be corrected
  - Active smoker or habitual smoker within the prior 6 months
  - Diabetes mellitus
  - Immunosuppressed individuals whose immunosuppression cannot be corrected
  - Individuals who cannot discontinue non-steroidal anti-inflammatory medications
  - Severe osteoporosis
  - Stable internal fixation of the fusion cannot be achieved
- **Ultrasonic Bone Growth Stimulators** for **1 or more** of the following:
  - Closed fractures at high risk for nonunion due to a comorbidity which makes healing likely to be compromised for **1 or more** of the following:
    - Diabetes
    - Renal disease
    - Other metabolic diseases
    - History of tobacco use
    - History of alcoholism
    - Nutritional deficiency
    - Obese individuals with Body Mass Index (BMI) greater than 30; or greater than 50% over ideal body weight (IBW);
    - Severe anemia
    - Steroid therapy
  - Fresh fractures, fusions, or delayed unions at **1 or more** of the following:
    - 5th metatarsal (Jones fracture)
    - Distal radius (Colles fracture) treated with closed reduction and cast immobilization
    - Scaphoid (carpal navicular)
  - Non-unions, failed arthrodesis, and congenital pseudarthrosis, pseudoarthrosis of the appendicular skeleton for **ALL** of the following:
    - Bone is non-infected
    - Bone is stable on both ends by means of cast or fixation
    - The two portions of the involved bone are separated by less than 1 centimeter (cm)
  - Non-union of a stress fracture for **ALL** of the following:
    - $\geq 3$  months from initial identification of the stress fracture
    - Failure of a minimum of 90 days of conventional, nonsurgical management (e.g., rest, bracing)
    - Radiograph imaging studies at least 90 days from the initial identification of the stress fracture demonstrates a fracture line that has not healed

- **Deep Brain Stimulation ((DBS) Intracranial Neurostimulation)** is considered medically necessary for **1 or more** of the following:
  - Essential Tremor with **ALL** of the following:
    - Individual has significant disability of one or more limbs from resting, positional, or kinetic tremor that affects safety, functional status, or quality of life
    - Individual has tremor refractory to at least one year of standard medication
    - Individual has no significant cognitive impairment
    - If individual has depression or mood disorders, they are adequately controlled with medicine
    - Individual has no intracranial pathology on imaging studies that would contraindicate or complicate deep brain stimulation
    - Individual does not have coagulopathy
  - Parkinson's Disease with **ALL** of the following:
    - Individual has idiopathic Parkinson's Disease
    - Individual has significant disability affecting safety, functional status or quality of life due to **1 or more** of the following:
      - Bradykinesia
      - Tremor
      - Rigidity
      - Levodopa-induced dyskinesia
    - Individual has had a favorable response in the past to administration of levodopa
    - Individual has current signs or symptoms refractory to standard medication for Parkinson's disease
    - Individual has no significant cognitive impairment
    - If individual has depression or mood disorders, they are adequately controlled with medicine
    - Individual has no intracranial pathology
  - Partial onset seizures with **ALL** of the following:
    - 18 years of age or older
    - Individual has undergone diagnostic testing that localized no more than two (2) epileptogenic foci
    - Individual is refractory to 2 or more antiepileptic medications
  - Primary Dystonia with **ALL** of the following:
    - 7 years of age or older
    - Individual has severe impairment in daily activities despite optimal medical management
    - Individual has no intracranial pathology on imaging studies that would contraindicate or complicate deep brain stimulation
    - Individual does not have coagulopathy
  - Replacement/revision of a cranial neurostimulator pulse generator or receiver or electrodes
- **Dorsal Column (Spinal Cord) Stimulation (DCS or SCS) and Dorsal Root Ganglion Stimulator (DRG)** are considered medically necessary for **1 or more** of the following:
  - Indications of **1 or more** of the following:
    - Failed back surgery syndrome (FBSS) with low back pain and significant radicular pain
    - Intractable pain caused by complex regional pain syndrome (CRPS)
    - Intractable pain caused by phantom limb syndrome that has not responded to medical management
    - Intractable pain caused by plexopathy
    - Intractable pain caused by cauda equina injury
    - Intractable pain caused by incomplete spinal cord injury
    - Inoperable chronic ischemic limb pain from peripheral vascular disease
    - Neuropathic pain due to Diabetes or inoperable critical limb ischemia

- Chronic back pain or neck pain with **ALL** of the following:
  - Individual with chronic back or neck pain who are considered inoperable
  - Documentation of at least 12 months of trial and failure of standard therapy (including non-steroidal anti-inflammatory drugs, tricyclic antidepressants, and anticonvulsants)
- Individual with intractable angina has angiographically documented significant coronary artery disease with **ALL** of the following:
  - Individual not suitable for revascularization procedures such as coronary artery bypass grafting or percutaneous transluminal coronary angioplasty
  - Individual has had optimal pharmacotherapy for at least one month including maximal tolerated dosages of **1 or more** of the following:
    - Anti-anginal medications
    - Long-acting nitrates
    - Beta-adrenergic blockers
    - Calcium channel antagonists
  - Individual's angina pectoris is New York Heart Association Functional Class III or Class IV
  - Reversible ischemia is documented by symptom-limited treadmill exercise test
- Documentation of successful completion of a trial with percutaneous spinal stimulator, after meeting criteria for trial
- Individual has the ability to understand and operate the device
- No cardiac pacemaker or implantable defibrillator
- No coagulopathy, anticoagulant or antiplatelet therapy, or thrombocytopenia (ie, platelet count of less than 75,000/mm<sup>3</sup> (75 x10<sup>9</sup>/L))
- No current or chronic infection
- Individuals have undergone careful screening, evaluation and diagnosis by a multidisciplinary team prior to implantation. (Such screening must include psychological, as well as physical evaluation)
- **Electric Stimulation and Electromagnetic Therapy and Treatment of Wounds** is considered medically necessary for **ALL** of the following:
  - Used as adjunctive therapy
  - Appropriate condition, as indicated by **1 or more** of the following:
    - Arterial ulcer
    - Chronic Stage III or Stage IV pressure ulcer (defined as ulcer that has not healed within 30 days of occurrence)
    - Diabetic ulcer
    - Venous stasis ulcer
  - Appropriate standard wound therapy has been tried for at least 30 days (which may begin while wound is acute), as indicated by **ALL** of the following:
    - Optimization of nutritional status
    - Debridement by any means to remove devitalized tissue
    - Maintenance of clean moist bed of granulation tissue with appropriate moist dressings
    - Necessary treatment to resolve any infection, if present
    - Standard wound care, based on specific type of wound, including **1 or more** of the following:
      - Pressure ulcer: frequent repositioning of patient (usually every 2 hours)
      - Diabetic ulcer: offloading of pressure and good glucose control
      - Arterial ulcer: establishment of adequate circulation
      - Venous ulcer: use of compression system
  - Absence of measurable signs of improved healing, as indicated by **1 or more** of the following:
    - No decrease in wound size (either surface area or volume)
    - No decrease in amount of exudates

- No decrease in amount of necrotic tissue
- Services performed by physician, physical therapist, or incident to physician service and **ALL** of the following:
  - Evaluation of wound occurs as integral part of wound therapy, and provider performing services contacts treating physician if wound worsens
  - Wound evaluation done at least monthly by treating physician
- **External Upper Limb Tremor Stimulator Therapy (i.e. Cala Trio)** is considered medically necessary for **1 or more** of the following:
  - Initial usage (first 3 months) stimulator therapy of peripheral nerves of wrist and supplies and accessories, as indicated by **ALL** of the following:
    - 18 years of age or older
    - Device prescribed to treat individual's **dominant** upper limb **only**
    - Diagnosis of essential tremor (ET)
    - Treating practitioner has performed clinical evaluation (in-person or via approved telehealth service).
    - Severe symptoms significantly impair beneficiary's ability to perform dominant hand, upper-limb-related ADLs as demonstrated by Bain & Findley Tremor ADL Scale (BF-ADL) score of 3 or more for **1 or more** of the following eating, drinking, self-care, or writing assessment items:
      - Cut food with knife and fork
      - Use spoon to drink soup
      - Hold cup of tea
      - Pour milk from bottle or carton
      - Wash and dry dishes
      - Brush teeth
      - Use handkerchief to blow nose
      - Use bath
      - Use lavatory
      - Wash face and hands
      - Tie up shoelaces
      - Do up buttons
      - Do up zip
      - Write letter
      - Put letter in envelope
      - Get up out of armchair
    - Tremor exacerbating medication (eg, stimulants, beta agonists) has been reduced or eliminated, or reduction or elimination of medication is not medically appropriate.
    - At least 2 pharmacologic treatment options for management of ET symptoms have been either tried and failed at maximal tolerable treatment dosages (ie, no or limited effect, intolerable side effects) or considered and ruled out (eg, not appropriate in context of beneficiary's medical history).
    - Stimulator therapy prescribed as alternative to invasive and/or permanent surgical treatment option (eg, deep brain stimulation, magnetic resonance guided focused ultrasound, radiosurgery)
  - Continued treatment - after initial 3 months, as indicated by **ALL** of the following:
    - Treating practitioner has performed clinical re-evaluation (in-person or via approved telehealth service) and documents **ALL** of the following:
      - Individual receiving benefits from therapy as indicated by one-point improvement in BF-ADL score in any eating, drinking, self-care, or writing task scored as 3 or more prior to initiation of therapy

- Individual adhering to therapy as defined as use of external upper limb tremor stimulator therapy on 70% of days during consecutive 30-day period anytime during the first 3 months of initial use
- **Functional Electrical Stimulators (FES)** (i.e. Parastep I System) or **Neuromuscular and Muscular Electrical Stimulation** (i.e. ReActiv8) (NMES) is considered medically necessary for **1 or more** of the following:
  - Disuse atrophy with intact nerve supply to the muscle (including the brain, spinal cord, and peripheral nerves) with **1 or more** of the following:
    - Previous casting or splinting of a limb when unable to participate in physical therapy
    - Contractures due to scarring of soft tissue (e.g. burn scarring)
    - Hip replacement prior to initiation of physical therapy.
    - Major knee surgery (e.g., total knee replacement) when there is failure to respond to physical therapy
  - Hemiplegia or hemiparesis with foot drop after chronic stroke, as indicated by **ALL** of the following:
    - Ankle range of motion within limits required for normal gait
    - Cognitively able to understand and comply with rehabilitation protocol
    - Stroke onset greater than 3 months prior
  - Spinal cord injury where restoration of walking is the goal, and the individual has the **ALL** of the following:
    - Intact lower motor units (L1 and below) (both muscle and peripheral nerve).
    - Muscle and joint stability for weight bearing at upper and lower extremities that can demonstrate balance and control to maintain an upright support posture independently.
    - Brisk muscle contraction to NMES and sensory perception of electrical stimulation sufficient for muscle contraction.
    - High motivation, commitment and cognitive ability to use such devices for walking.
    - Ability to transfer independently and independent standing tolerance for at least 3 minutes.
    - Hand and finger function to manipulate controls.
    - At least 6-month post recovery spinal cord injury and restorative surgery.
    - No evidence of hip and knee degenerative disease and no history of long bone fracture secondary to osteoporosis.
    - Willingness to use the device long-term.
- **Percutaneous electrical nerve stimulation (PENS)** is considered medically necessary for **1 or more** of the following:
  - Treatment of chronic low back pain secondary to degenerative disc disease for up to a thirty (30) day period as part of a multi-modality rehabilitation program that includes exercise
  - Diabetic neuropathy pain when used to stimulate the anatomical source of pain
- **Percutaneous electrical nerve field stimulator (IB-Stim)** is considered medically necessary for **ALL** of the following:
  - Age 8–21 years
  - Diagnosis confirmed using ROME IV criteria
  - Organic GI diseases excluded
  - Symptoms present for at least 9 months
  - Failure of medication trials in three classes (acid suppression, antispasmodics/motility agents, neuromodulators) plus diet modification
- **Peripheral implanted nerve Stimulator (PNS)** is considered medically necessary for **1 or more** of the following:
  - Placement with **ALL** of the following:

- Individual has chronic, severe neurogenic pain including but not limited to complex regional pain syndrome, neuropathic pain, neuralgias, post-surgical pain for at least three to six months in the region of the nerve being targeted
- Individual has failed conservative, less invasive treatment including but not limited to medications, physical therapy, braces, local injections, TENS, psychological therapy, attempts to cure the underlying condition causing the pain for at least six months
- Individual does not have contraindications to the procedure including but not limited to local infections, surgical/medical /psychological conditions that can adversely impact the procedure
- Individual does not have any substance abuse issues
- Individual has been educated and psychologically prepared following discussion of risks and benefits by the treating physician
- Request is for **1 or more** of the following:
  - Criteria must be met for implantation in order to perform a trial
  - Individual had undergone a successful stimulation trial with greater than or equal to 50% reduction in pain intensity before implantation
- Removal with or without replacement is considered medically necessary when **1 or more** the following are met:
  - The device malfunctions or breaks and individual continues to meet placement criteria
  - Becomes infected
  - No longer warranted with a documented reason
- **Transcutaneous Electrical Nerve Stimulator (TENS unit)** is considered medically necessary for **1 or more** of the following:
  - Acute post-operative pain with **1 or more** of the following:
    - Initial trial period with **ALL** of the following:
      - Used as an adjunct or alternative to pharmacotherapy
      - Used in the first 30 days after surgery
      - Monitored by the physician to determine the effectiveness of the transcutaneous electrical nerve stimulator in managing the pain
    - Continued treatment with **ALL** of the following:
      - Individual has completed an initial trial period within the first 30 days after surgery
      - Documentation from the physician indicates how often the individual used the transcutaneous electrical unit, the duration of use, and the results
      - Documentation from the physician proving the treatment has significantly alleviated pain and continued treatment would be beneficial over a long period of time
      - The ordering physician must be the attending physician or a consulting physician for the disease or condition
  - Chronic, intractable pain other than low back pain with **ALL** of the following:
    - The presumed etiology of the pain must be a type that is accepted as responding to TENS therapy
    - The pain must have been present for at least three months
    - Other appropriate treatments treatment modalities must have been tried and failed
  - Dysmenorrhea as indicated with **ALL** of the following:
    - Disabling dysmenorrhea
    - Secondary causes of dysmenorrhea have been ruled out (e.g. endometriosis)
    - No response to treatment with non-steroidal anti-inflammatory medications (NSAIDs)
  - Replacement supplies for use with Transcutaneous Electrical Nerve Stimulator (TENS) requested
- **Form fitting, conductive garment**, as indicated by **ALL** of the following:
  - There is a large area or many sites to be stimulated.

- Stimulation will be delivered so frequently that it is not practical to use conventional items including, but not limited to, wires, electrodes or tapes
- Individual needs garment for treatment of chronic intractable pain where conventional items would not be accessible.
- Individual has a medical condition that does not allow for conventional items including, but not limited to, tapes, wires or electrodes.
- Individual needs to access site under a cast, if applicable (may not have a cast applied)

**Electrical Stimulation devices** that are considered **non-covered/not medically necessary** for any use other than those indicated in clinical criteria, to include but not limited to:

- Acupuncture for stimulation of auricular points
  - NeuroStim system/NSS
  - P-Stim
  - ANSiStim
  - E-Pulse
- Auricular electrical stimulation
- Auricular electro-acupuncture (i.e. P-STIM device)
- Bioelectric Nerve Block (Electroceutical Therapy)
- Bipolar electrical muscle stimulation/bipolar electromagnetic stimulation
- Cefaly transcutaneous electrical stimulator headband
- Cranial Electrotherapy Stimulation (e.g. Alpha-Stim, Fisher Wallace Stimulator) (also known as cerebral electrotherapy, craniofacial electrostimulation, electric cerebral stimulation, electrosleep, electrotherapeutic sleep, transcerebral electrotherapy, transcranial electrotherapy, as well as the Fisher Wallace stimulator (formerly known as the Liss Body Stimulator)
- Dorsal Column Stimulation for:
  - Chronic malignant pain
  - Other chronic non-malignant neuropathic pain (e.g., cephalgia, diabetic neuropathy, headache, inguinal pain/occipital neuralgia, phantom limb syndrome, and trigeminal neuralgia) that does not meet the clinical indications listed above
  - Spasticity
  - Critical limb ischemia as a technique to forestall amputation
  - Chronic vegetative state or minimally conscious state
  - Irritable bowel syndrome
- The **combined use of dorsal column stimulation and dorsal root ganglion stimulation** for the treatment of complex regional pain syndrome or any other indications are not medically necessary.
- Electric Cell-Signaling Energy Waves (EcST and ESI)
- Electrical stimulation indications for any of the following:
  - Abdominal pain, including pregnancy
  - Acute and Chronic headaches including Migraine
  - Acute pain (less than three months duration) other than post-operative pain
  - Adhesive capsulitis (frozen shoulder)
  - Blockade of the stellate ganglion
  - Carpal tunnel syndrome pain
  - Chemotherapy-induced peripheral neuropathy
  - Chondromalacia patellae and patellofemoral disorders
  - Dry mouth (xerostomia)
  - In individuals with convulsive disorders of the head and neck
  - In individuals with implantable electrical devices such as pacemakers or defibrillators
  - Management of opioid withdrawal
  - Nausea and vomiting
  - Pelvic pain, including labor and delivery

- Temporomandibular joint (TMJ) pain
- Galvanic stimulation
- H-Wave Type Stimulators
- high frequency pulsed electromagnetic stimulation (also known as therapeutic magnetic resonance)
- Interferential Therapy (IF) Neurostimulator Devices (e.g., RS Medical TENS Plus, Sequential Stimulation with 4 leads or RS-4i)
- Intermittent pulsed electromagnetic stimulation (PEMF stimulation) for fracture healing
- Intramuscular stimulation device
- Intravaginal electrical stimulation – **See MCG**
- low frequency pulsed electromagnetic stimulation
- Microcurrent Electrical Nerve Stimulation Devices aka electro-therapeutic point stimulation (e.g., Algonix, Alpha-Stim 100, Electro-Acuscope Myopulse Therapy System, Electro-Myopulse 75L, electro-Lyoscope 85P, KFH Energy, MENS 2000-D, MICROCURRENT or Myopulse 75C)
- Nexwave by Zynex 3-1 device: Interferential, TENS, and NMES
- Non-Invasive Interactive Neurostimulation
- Non-invasive/No-Incision Pain Procedure (NIP) Device
- NTX-100 Tonic Motor Activation (TOMAC) System for Restless Leg Syndrome
- Neuromuscular and Muscular Electrical Stimulation devices for the following:
  - Autonomic dysreflexia
  - Bell's palsy
  - Cardiac conditioning
  - Cerebral palsy
  - Chronic Obstructive Pulmonary Disease
  - Congestive Heart Failure
  - Erectile dysfunction
  - Irreversible contracture
  - Masseter muscle oral dysfunction after stroke
  - Muscle atrophy after stroke
  - Pain caused by necrosis of the femoral head.
  - Treatment of denervated muscles
  - Treatment of knee osteoarthritis
  - Upper extremity hemiplegia
- Percutaneous neuromodulation therapy (PNT, e.g., Vertis PNT, BiowavePRO)
- Peripheral subcutaneous field stimulation or peripheral nerve field stimulation (PNFS)
- Pulsed Electrical Stimulator (PES)
- Quell device
- Reduced impedance non-invasive cortical electrostimulation (RINCE)
- Spinal Cord Stimulation for:
  - Repeat trials are not considered medically necessary unless appropriate medical documentation proves there was an extenuating circumstance that led to trial failure
  - Cephalgia
  - Headache of any etiology
  - Inguinal pain
  - Occipital neuralgia
  - Trigeminal neuralgia
  - Spasticity
  - Cervical spinal cord stimulation for the treatment of cervical trauma, disc herniation, failed cervical spine surgery syndrome presenting with arm pain, neck pain, and/or cervicogenic headache, radiation-induced brain injury, or stroke
  - Implantable epidural spinal cord stimulation (both temporary and permanent) as a treatment of critical limb ischemia as a technique to forestall amputation

- Implantable subcutaneous target stimulator devices (both temporary and permanent) for all indications
- Sprint PNS (percutaneous PNS)
- Sympathetic therapy (Electrical sympathetic stimulation therapy)
- Synaptic electrical stimulator
- Severe scoliosis or severe osteoporosis (for spinal cord injury)
- The ReBuilder
- Threshold/Therapeutic Electrical stimulation (TES)
- Transcutaneous Electrical Joint Stimulation Devices (TEJSD)
- Transcutaneous Electrical Modulation Pain Reprocessing (TEMPR) (Scrambler therapy, Calmare)
- Transcutaneous magnetic stimulation
- Whole-body electro-myo-stimulation

## Document History:

### Revised Dates:

- 2026: Feb – Implementation date of June 1, 2026. Annual review. Removed Ultrasonic Bone Growth criteria to use MCG. Added criteria for Percutaneous electrical nerve field stimulation (IB-Stim). Clarified exceptions. Updated coding to align with changes.
- 2025: September – Implementation date of January 1, 2026. Clarification of acupuncture, PNS diabetic pain and housekeeping
- 2025: May – Implementation date of September 1, 2025. New policy created. Imported criteria from DME 07 – Electrical Stimulation, DME 01 – Electrical Stimulation and Electricomagnetic Therapy for Wounds, DME 09 – Electric, Electromagnetic, Ultrasonic Bone Growth Stimulation, DME 17 - Neuromuscular Electrical Stimulation, Surgical 74 – Deep Brain Stimulation, and Surgical 69 – Spinal Cord Electrical Stimulator - Spinal cord stimulator (SPS) and Dorsal MotorGanglion Stimulator (DMG). Removed duplicate information, consolidated not medically necessary section and updated formatting.

### Reviewed Dates:

Origination Date: Aug 2025

## Coding:

### Medically necessary with criteria:

| Coding | Description  |
|--------|--|
| 20974  | Electrical stimulation to aid bone healing; noninvasive (nonoperative)   |
| 20975  | Electrical stimulation to aid bone healing; invasive (operative)   |
| 61850  | Twist drill or burr hole(s) for implantation of neurostimulator electrodes, cortical   |
| 61860  | Craniectomy or craniotomy for implantation of neurostimulator electrodes, cerebral, cortical   |
| 61863  | Twist drill, burr hole, craniotomy, or craniectomy with stereotactic implantation of neurostimulator electrode array in subcortical site (eg, thalamus, globus pallidus, subthalamic nucleus, periventricular, periaqueductal gray), without use of intraoperative microelectrode recording; first array |
| 61864  | Twist drill, burr hole, craniotomy, or craniectomy with stereotactic implantation of neurostimulator electrode array in subcortical site (eg, thalamus, globus pallidus, subthalamic nucleus, periventricular, periaqueductal gray), without use of intraoperative                                       |

|       |  |
|-------|--|
|       | microelectrode recording; each additional array (List separately in addition to primary procedure)   |
| 61867 | Twist drill, burr hole, craniotomy, or craniectomy with stereotactic implantation of neurostimulator electrode array in subcortical site (eg, thalamus, globuspallidus, subthalamic nucleus, periventricular, periaqueductal gray), with use of intraoperative microelectrode recording; first array   |
| 61868 | Twist drill, burr hole, craniotomy, or craniectomy with stereotactic implantation of neurostimulator electrode array in subcortical site (eg, thalamus, globus pallidus, subthalamic nucleus, periventricular, periaqueductal gray), with use of intraoperative microelectrode recording; each additional array (List separately in addition to primary procedure) |
| 61880 | Revision or removal of intracranial neurostimulator electrodes   |
| 61885 | Insertion or replacement of cranial neurostimulator pulse generator or receiver, direct or inductive coupling; with connection to a single electrode array   |
| 61886 | Insertion or replacement of cranial neurostimulator pulse generator or receiver, direct or inductive coupling; with connection to 2 or more electrode arrays   |
| 61888 | Revision or removal of cranial neurostimulator pulse generator or receiver   |
| 63650 | Percutaneous implantation of neurostimulator electrode array, epidural   |
| 63655 | Laminectomy for implantation of neurostimulator electrodes, plate/paddle, epidural   |
| 63685 | Insertion or replacement of spinal neurostimulator pulse generator or receiver, direct or inductivecoupling  |
| 64555 | Percutaneous implantation of neurostimulator electrode array; peripheral nerve (excludes sacral nerve)   |
| 64567 | Percutaneous electrical nerve field stimulation, cranial nerves, without implantation  |
| 64575 | Open implantation of neurostimulator electrode array; peripheral nerve (excludes sacral nerve)   |
| 64580 | Open implantation of neurostimulator electrode array; neuromuscular  |
| 64585 | Revision or removal of peripheral neurostimulator electrode array  |
| 64590 | Insertion or replacement of peripheral, sacral, or gastric neurostimulator pulse generator or receiver, requiring pocket creation and connection between electrode array and pulse generator or receiver   |

|       |  |
|-------|--|
| 64595 | Revision or removal of peripheral, sacral, or gastric neurostimulator pulse generator or receiver, with detachable connection to electrode array   |
| 64596 | Insertion or replacement of percutaneous electrode array, peripheral nerve, with integrated neurostimulator, including imaging guidance, when performed; initial electrode array   |
| 64597 | Insertion or replacement of percutaneous electrode array, peripheral nerve, with integrated neurostimulator, including imaging guidance, when performed; each additional electrode array (List separately in addition to code for primary procedure) |
| 64598 | Revision or removal of neurostimulator electrode array, peripheral nerve, with integrated neurostimulator  |
| 64999 | Unlisted procedure, nervous system   |
| A4541 | Monthly supplies for use of device coded at E0733  |
| A4542 | Supplies and accessories for external upper limb tremor stimulator of the peripheral nerves of the wrist   |
| A4545 | Supplies and accessories for external tibial nerve stimulator (e.g., socks, gel pads, electrodes, etc.), needed for one month  |
| A4558 | Conductive gel or paste, for use with electrical device (e.g., TENS, NMES), per oz.  |
| A4595 | Electrical stimulator supplies, 2 lead, per month, (e.g. TENS, NMES)   |
| E0720 | Transcutaneous electrical nerve stimulation (TENS) device, 2   |
| E0730 | Transcutaneous electrical nerve stimulation (TENS) device, 4   |
| E0731 | Form - fitting conductive garment for delivery of TENS or NMES (with conductive fibers separated from the patient's skin by layers of fabric)  |
| E0733 | Transcutaneous electrical nerve stimulator for electrical stimulation of the trigeminal nerve  |
| E0734 | External upper limb tremor stimulator of the peripheral nerves of the wrist  |
| E0736 | Transcutaneous tibial nerve stimulator   |
| E0737 | Transcutaneous tibial nerve stimulator, controlled by phone application  |
| E0745 | Neuromuscular stimulator, electronic shock unit  |

|       |   |
|-------|---|
| E0747 | Osteogenesis stimulator, electrical, noninvasive, other than spinal applications  |
| E0748 | Osteogenesis stimulator, electrical, noninvasive, spinal applications   |
| E0749 | Osteogenesis stimulator, electrical, surgically implanted   |
| E0764 | Functional neuromuscular stimulator, transcutaneous stimulation of muscles of ambulation with computer control, used for walking by spinal cord injured, entire system, after completion of training program  |
| E0769 | Electrical stimulation or electromagnetic wound treatment device, not otherwise classified  |
| E0770 | Functional electrical stimulator, transcutaneous stimulation of nerve and / or muscle groups, any type, complete system, not otherwise specified  |
| G0281 | Electrical stimulation, (unattended), to one or more areas, for chronic Stage III and Stage IV pressure ulcers, arterial ulcers, diabetic ulcers, and venous stasis ulcers not demonstrating measurable signs of healing after 30 days of conventional care, as part of a therapy plan of care (Not Covered effective 1/1/2025) |
| G0282 | Electrical stimulation, (unattended), to one or more areas, for wound care other than described in G0281  |
| G0295 | Electromagnetic therapy, to one or more areas, for wound care other than described in G0329 or for other uses   |
| G0329 | Electromagnetic therapy, to one or more areas for chronic Stage III and Stage IV pressure ulcers, arterial ulcers, diabetic ulcers and venous stasis ulcers not demonstrating measurable signs of healing after 30 days of conventional care as part of a therapy plan of care  |
| 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   |

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|-------|---|
| L8688 | Implantable neurostimulator pulse generator, dual array, non-rechargeable, includes extension |
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Considered Not Medically Necessary:

| Coding | Description   |
|--------|---|
| 0278T  | Transcutaneous electrical modulation pain reprocessing (eg, scrambler therapy), each treatment session (includes placement of electrodes)   |
| 0720T  | Percutaneous electrical nerve field stimulation, cranial nerves, without implantation   |
| 0766T  | Transcutaneous magnetic stimulation by focused low-frequency electromagnetic pulse, peripheral nerve, initial treatment, with identification and marking of the treatment location, including noninvasive electroneurographic localization (nerve conduction localization), when performed; first nerve   |
| 0767T  | Transcutaneous magnetic stimulation by focused low-frequency electromagnetic pulse, peripheral nerve, initial treatment, with identification and marking of the treatment location, including noninvasive electroneurographic localization (nerve conduction localization), when performed; each additional nerve (List separately in addition to code for primary procedure) |
| 0768T  | Transcutaneous magnetic stimulation by focused low-frequency electromagnetic pulse, peripheral nerve, subsequent treatment, including noninvasive electroneurographic localization (nerve conduction localization), when performed; first nerve   |
| 0769T  | Transcutaneous magnetic stimulation by focused low-frequency electromagnetic pulse, peripheral nerve, subsequent treatment, including noninvasive electroneurographic localization (nerve conduction localization), when performed; each additional nerve (List separately in addition to code for primary procedure)   |
| 0783T  | Transcutaneous auricular neurostimulation, set-up, calibration, and patient education on use of equipment   |
| 0784T  | Insertion or replacement of percutaneous electrode array, spinal, with integrated neurostimulator, including imaging guidance, when performed   |
| 0785T  | Revision or removal of neurostimulator electrode array, spinal, with integrated neurostimulator   |
| 0786T  | Insertion or replacement of percutaneous electrode array, sacral, with integrated neurostimulator, including imaging guidance, when performed   |
| 0787T  | Revision or removal of neurostimulator electrode array, sacral, with integrated neurostimulator   |
| 0788T  | Electronic analysis with simple programming of implanted integrated neurostimulation system (eg, electrode array and receiver), including contact group(s), amplitude, pulse width, frequency (Hz), on/off cycling, burst, dose lockout, patient-selectable parameters, responsive neurostimulation, detection algorithms, closed-loop parameters, and passive                |

|       |  |
|-------|--|
|       | parameters, when performed by physician or other qualified health care professional, spinal cord or sacral nerve, 1-3 parameters   |
| 0789T | Electronic analysis with complex programming of implanted integrated neurostimulation system (eg, electrode array and receiver), including contact group(s), amplitude, pulse width, frequency (Hz), on/off cycling, burst, dose lockout, patient-selectable parameters, responsive neurostimulation, detection algorithms, closed-loop parameters, and passive parameters, when performed by physician or other qualified health care professional, spinal cord or sacral nerve, 4 or more parameters |
| A4543 | Supplies for transcutaneous electrical nerve stimulator, for nerves in the auricular region, per month   |
| A4544 | Electrode for external lower extremity nerve stimulator for restless legs syndrome   |
| A4593 | Neuromodulation stimulator system, adjunct to rehabilitation therapy regime, controller  |
| A4594 | Neuromodulation stimulator system, adjunct to rehabilitation therapy regime, mouthpiece, each  |
| A4596 | Cranial electrotherapy stimulation (CES) system supplies and accessories, per month  |
| E0721 | Transcutaneous electrical nerve stimulator for nerves in the auricular region  |
| E0732 | Cranial electrotherapy stimulation (CES) system, any type  |
| E0743 | External lower extremity nerve stimulator for restless legs syndrome, each   |
| E0744 | Neuromuscular stimulator for scoliosis   |
| E0755 | Electronic salivary reflex stimulator (intraoral/noninvasive)  |
| E0761 | Non-thermal pulsed high frequency radiowaves, high peak power electromagnetic energy treatment device  |
| E0762 | Transcutaneous electrical joint stimulation device system, includes all accessories  |
| E0765 | FDA approved nerve stimulator, with replaceable batteries, for treatment of nausea and vomiting  |
| S8130 | Interferential current stimulator, 2   |
| S8131 | Interferential current stimulator, 4   |
| S8930 | Electrical stimulation of auricular acupuncture points; each 15  |

U.S. Food and Drug Administration (FDA) - approved only products only.

*The preceding codes are included above for informational purposes only and may not be all inclusive. Additionally, inclusion or exclusion of a treatment, procedure, or device code(s) does not constitute or imply member coverage or provider reimbursement. Please refer to the member's contract benefits in effect at the time of service to determine coverage or non-coverage of these services as it applies to an individual member.*

### Special Notes: \*

- Coverage:
  - See the appropriate benefit document for specific coverage determination. Member specific benefits take precedence over medical policy.
- Application to products:
  - Policy is applicable to Sentara Health Plan Commercial products.
- Authorization requirements:
  - Pre-certification by the Plan is required.
- Special Notes:
  - Commercial
    - Medical policies can be highly technical and complex and are provided here for informational purposes. These medical policies are intended for use by health care professionals. The medical policies do not constitute medical advice or medical care. Treating health care professionals are solely responsible for diagnosis, treatment, and medical advice. Sentara Health Plan members should discuss the information in the medical policies with their treating health care professionals. Medical technology is constantly evolving, and these medical policies are subject to change without notice, although Sentara Health Plan will notify providers as required in advance of changes that could have a negative impact on benefits.
    - Services mean both medical and behavioral health (mental health) services and supplies unless We specifically tell You otherwise. We do not cover any services that are not listed in the Covered Services section unless required to be covered under state or federal laws and regulations. We do not cover any services that are not Medically Necessary. We sometimes give examples of specific services that are not covered but that does not mean that other similar services are covered. Some services are covered only if We authorize them. When We say You or Your We mean You and any of Your family members covered under the Plan. Call Member Services if You have questions.

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## Keywords:

Electrical Stimulation, Electromagnetic Therapy, Electric, Electromagnetic, Ultrasonic Bone Growth Stimulation, Deep Brain Stimulation, Spinal Cord Electrical Stimulator, Spinal cord stimulator, Dorsal Motor Ganglion Stimulator, Neuromuscular.