Policy Statement

Interferential current stimulation is considered investigational.

NOTE: Refer to Appendix A to see the policy statement changes (if any) from the previous version.

Policy Guidelines

There are no specific CPT codes describing interferential current stimulation. The following CPT code might be used:

- **97014**: Application of a modality to 1 or more areas; electrical stimulation (unattended)

The following HCPCS code might also be used:

- **G0283**: Electrical stimulation (unattended), to one or more areas for indication(s) other than wound care, as part of a therapy plan of care

The following HCPCS codes are available for these stimulation devices:

- **S8130**: Interferential current stimulator, 2 channel
- **S8131**: Interferential current stimulator, 4 channel

Description

Interferential current stimulation (IFS) is a type of electrical stimulation used to reduce pain. The technique has been proposed to decrease pain and increase function in patients with osteoarthritis and to treat other conditions such as constipation, irritable bowel syndrome, dyspepsia, and spasticity.

Related Policies

- N/A

Benefit Application

Benefit determinations should be based in all cases on the applicable contract language. To the extent there are any conflicts between these guidelines and the contract language, the contract language will control. 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.

Some state or federal mandates (e.g., Federal Employee Program [FEP]) prohibits plans from denying Food and Drug Administration (FDA)-approved technologies as investigational. In these instances, plans may have to consider the coverage eligibility of FDA-approved technologies on the basis of medical necessity alone.

Regulatory Status

A number of IFS devices have been cleared for marketing by the U.S. Food and Drug Administration through the 510(k) process, including the Medstar™ 100 (MedNet Services) and
Interferential Current Stimulation

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the RS-4i® (RS Medical). IFS may be included in multimodal electrotherapy devices such as transcutaneous electrical nerve stimulation and functional electrostimulation.

Rationale

Background
Interferential current stimulation (IFS) is a type of electrical stimulation that has been investigated as a technique to reduce pain, improve function and range of motion, and treat gastrointestinal disorders.

IFS uses paired electrodes of two independent circuits carrying high-frequency and medium-frequency alternating currents. The superficial electrodes are aligned on the skin around the affected area. It is believed that IFS permeates the tissues more effectively and with less unwanted stimulation of cutaneous nerves, is more comfortable than transcutaneous electrical nerve stimulation. There are no standardized protocols for the use of IFS; IFS may vary by frequency of stimulation, the pulse duration, treatment time, and electrode-placement technique.

Literature Review
Evidence reviews assess the clinical evidence to determine whether the use of technology improves the net health outcome. Broadly defined, health outcomes are the length of life, quality of life, and ability to function-including benefits and harms. Every clinical condition has specific outcomes that are important to patients and managing the course of that condition. Validated outcome measures are necessary to ascertain whether a condition improves or worsens; and whether the magnitude of that change is clinically significant. The net health outcome is a balance of benefits and harms.

To assess whether the evidence is sufficient to draw conclusions about the net health outcome of technology, 2 domains are examined: the relevance, and quality and credibility. To be relevant, studies must represent one or more intended clinical use of the technology in the intended population and compare an effective and appropriate alternative at a comparable intensity. For some conditions, the alternative will be supportive care or surveillance. The quality and credibility of the evidence depend on study design and conduct, minimizing bias and confounding that can generate incorrect findings. The randomized controlled trial (RCT) is preferred to assess efficacy; however, in some circumstances, nonrandomized studies may be adequate. RCTs are rarely large enough or long enough to capture less common adverse events and long-term effects. Other types of studies can be used for these purposes and to assess generalizability to broader clinical populations and settings of clinical practice.

Musculoskeletal Conditions
RCTs with placebo control are extremely important to assess treatments of painful conditions, due to the expected placebo effect, the subjective nature of pain assessment in general, and the variable natural history of pain that often responds to conservative care. Therefore, to establish whether an intervention for pain is effective, a placebo comparison is needed.

Clinical Context and Therapy Purpose
The purpose of using interferential current stimulation (IFS) in patients who have musculoskeletal conditions is to provide a treatment option that is an alternative to or an improvement on existing therapies.

The question addressed in this evidence review is: Does the use of IFS improve health outcomes for those with musculoskeletal conditions?

The following PICO was used to select literature to inform this review.
Population
The population of interest is individuals with musculoskeletal conditions.

Interventions
The therapy being considered is IFS.

Comparators
The following therapies are currently being used: physical therapy, medication, and other types of electrical stimulation.

Outcomes
The specific outcomes of interest are pain control, increased functional capacity, and improved quality of life. IFS would be used as adjunctive treatment with observed effects to be expected within 6 months.

Study Selection Criteria
Methodologically credible studies were selected using the following principles:

• To assess efficacy outcomes, comparative controlled prospective trials were sought, with a preference for RCTs;
• In the absence of such trials, comparative observational studies were sought, with a preference for prospective studies;
• To assess long-term outcomes and adverse events, single-arm studies that capture longer periods of follow-up and/or larger populations were sought;
• Studies with duplicative or overlapping populations were excluded.

Review of Evidence

Systematic Reviews
A network meta-analysis by Zeng et al (2015) identified 27 RCTs on 5 types of electrical stimulation therapies used to treat pain in patients with knee osteoarthritis (OA).1 Reviewers found that IFS was significantly more effective than control interventions for pain relief (standardized mean difference, 2.06; 95% credible interval, 1.10 to 3.19) and pain intensity (standard mean difference, -0.92; 95% credible interval, -1.72 to -0.05). The validity of these conclusions is uncertain due to the limitations of the network meta-analysis, which used indirect comparisons to make conclusions. A further limitation is that the findings of placebo-controlled studies were not reported separately; rather, they were pooled in the analysis of usual care comparators. A more recent systematic review and meta-analysis by Ferreira et al (2019) evaluated non-surgical and non-pharmacological interventions for knee osteoarthritis.2 However, as it only evaluated 1 RCT on IFS, the RCT by Gundog et al discussed below (2012), it did not add new information to the network meta-analysis by Zeng et al (2015).

The National Institute of Health and Care Excellence (NICE) (2016) published an evidence review on non-invasive treatments for low back pain.3 This review included 4 non-US RCTs published between 1999 and 2014 that compared IFC to sham (n=117), usual care (n=60), or manual therapies (n=387). NICE reported that compared to sham or traction, IFC did not demonstrate a clinically important improvement in pain. No studies evaluated impact on quality of life, nor did any studies include people with sciatica. NICE concluded that evidence does not support IFC for low back pain.

Fuentes et al (2010) published a systematic review and meta-analysis of RCTs evaluating the effectiveness of IFS for treating musculoskeletal pain.4 Twenty RCTs met the following inclusion criteria: adults diagnosed with a painful musculoskeletal condition (e.g., knee, back, joint, shoulder, or OA pain); compared IFS alone or as a co-intervention with placebo, no treatment, or an alternative intervention; and assessed pain using a numeric rating scale. Fourteen of the trials reported data that could be pooled. IFS as a stand-alone intervention was not found to be more effective than placebo or an alternative intervention at reducing pain. For example, a pooled analysis of 2 studies comparing IFS alone with placebo did not find a statistically
significant difference in pain intensity at discharge; the pooled mean difference (MD) was 1.17 (95% confidence interval [CI], -1.70 to 4.05). Also, a pooled analysis of 2 studies comparing IFS alone with an alternative intervention (e.g., traction or massage) did not find a significant difference in pain intensity at discharge; the pooled MD was -0.16 (95% CI, -0.62 to 0.31). Moreover, in a pooled analysis of 5 studies comparing IFS as a co-intervention with a placebo, there was a nonsignificant finding in pain intensity at discharge (MD=1.60; 95% CI, -0.13 to 3.34; p=0.07). The meta-analysis found IFS plus another intervention to be superior to a control group (e.g., no treatment) for pain intensity at day 1 and 4 weeks; a pooled analysis of 3 studies found an MD of 2.45 (95% CI, 1.69 to 3.22; p<0.001). However, that analysis did not distinguish the specific effects of IFS from the co-intervention nor did it control for potential placebo effects.

Randomized Controlled Trials
This section includes RCTs not included in the systematic reviews discussed above. To evaluate IFS after arthroscopic knee surgery, Kadi et al. (2019) conducted a double blind, placebo controlled RCT in 98 individuals. IFS or sham treatment (pads applied with no current) was delivered for 30 minutes, twice a day for 5 days postoperatively. Although IFS significantly reduced the amount of paracetamol used by day 5, no significant difference was found between the groups with respect to pain, range of motion, or edema at days 0 through 30. Alqualo Costa et al. (2021) conducted a placebo-controlled RCT of ICS and photobiomodulation in 168 adults with knee osteoarthritis. Participants were randomized to one of 4 groups: active IFS plus placebo photobiomodulation, placebo IFS plus active photobiomodulation, active IFS plus active photobiomodulation, and placebo IFS plus placebo photobiomodulation. Patients received treatments 3 times a week for 4 weeks, totaling 12 sessions. Both patients and outcome assessors were blinded to treatment allocation. The combination of active IFS plus active photobiomodulation significantly reduced pain intensity at rest and during movement compared to the IFS alone and placebo groups. Similar small sample improvements were not shown in the group that received IFS alone. This study was limited by its size and multiple statistical comparisons.

In addition to the placebo-controlled trials, several RCTs have compared IFS with another active intervention or with usual care. However, studies with active comparators, as well as those with usual care control groups, may be subject to the placebo effect. Receiving an older or known, rather than a novel, intervention, may elicit a placebo response.

Section Summary: Musculoskeletal Conditions
Placebo-controlled randomized trials of IFS for treating musculoskeletal pain and impaired function have mostly found that IFS does not significantly improve outcomes. A meta-analysis limited to placebo-controlled trials also did not find a significant benefit of IFS for treating pain and function. RCTs with usual care or active treatment comparisons may be subject to the placebo effect.

Gastrointestinal Disorders
Clinical Context and Therapy Purpose
The purpose of using IFS in patients who have gastrointestinal disorders (e.g., constipation, irritable bowel syndrome, and dyspepsia) is to provide a treatment option that is an alternative to or an improvement on existing therapies.

The question addressed in this evidence review is: Does the use of IFS improve health outcomes for those with gastrointestinal disorders?

The following PICO was used to select literature to inform this review.

Population
The population of interest is individuals with a gastrointestinal disorder such as constipation, irritable bowel syndrome, or dyspepsia.
Interventions
The therapy being considered is IFS.

Comparators
The following therapies are currently being used: dietary changes, medication, and other types of electrical stimulation.

Outcomes
The specific outcomes of interest are pain control, increased functional capacity, and improved quality of life. Safety and efficacy of IFS would be evaluated at 1 month following a 4 week treatment.

Study Selection Criteria
Methodologically credible studies were selected using the following principles:

- To assess efficacy outcomes, comparative controlled prospective trials were sought, with a preference for RCTs;
- In the absence of such trials, comparative observational studies were sought, with a preference for prospective studies;
- To assess long-term outcomes and adverse events, single-arm studies that capture longer periods of follow-up and/or larger populations were sought.
- Studies with duplicative or overlapping populations were excluded.

Constipation
Review of Evidence
No large RCTs have adequately evaluated the comparative effects of using IFS to treat constipation versus the comparators of interest. Ideally, an RCT would compare IFS to another treatment of interest such as dietary changes, medication, or different types of electrical stimulation and include an IFS sham-control group to rule out a potential placebo effect. Several sham-controlled RCTs evaluating IFS for treating children with constipation and/or other lower gastrointestinal symptoms were identified. The RCTs had small sample sizes and did not consistently find a benefit of IFS.

A systematic review of neuromodulation approaches for constipation and fecal incontinence in children by Iacona et al (2019) included 2 of the RCTs, as well as 1 prospective study, and 2 pilot studies (N=126). Study follow-up times ranged from 1 to 6 months. Systematic review authors reported that all of the studies reported an improvement in symptoms reported including defecation frequency, soiling episodes, and abdominal pain. This systematic review included the RCT by Kajbafzadeh et al (2012) in Iran that randomized 30 children with intractable constipation to IFS or sham stimulation. Children ranged in age from 3 to 12 years old and had failed 6 months of conventional therapy (e.g., dietary changes, laxatives). Patients received 15 IFS sessions (20 minutes long), 3 times a week for 5 weeks. Over 6 months, the mean frequency of defecation increased from 2.5 times a week to 4.7 times a week in the treatment group and from 2.8 times a week to 2.9 times a week in the control group. The mean pain during defecation score decreased from 0.35 to 0.20 in the treatment group and from 0.29 to 0.22 in the control group. The authors reported a statistically significant between-group difference in constipation symptoms. Overall, however, the systematic review authors concluded additional evidence including longer length of follow-up is needed to consider neuromodulation as an established therapy for the management of constipation and fecal incontinence.

Additionally, another RCT, published by Clarke et al (2009) from Australia, and not included in the systematic review by Iacona et al (2019), did not find a benefit of IFS. Thirty-three children with slow transit time constipation (mean age, 12 years) were randomized to IFS or sham treatment. They received 12, 20-minute sessions over 4 weeks; the primary outcome was health-related quality of life, and the main assessment instrument used was the Pediatric Quality of Life Inventory. The authors only reported within-group changes; they did not compare the treatment and control groups. There was no statistically significant change in quality of life, as perceived by
the parent group. The mean parent-reported quality of life scores changed from 70.3 to 70.1 in the active treatment group and from 69.8 to 70.2 in the control group. There was also no significant difference in quality of life, as perceived by the child after sham treatment. The Pediatric Quality of Life Inventory score, as perceived by the child, did increase significantly in the active treatment group (mean, 72.9 pretreatment vs 81.1 posttreatment, p=0.005).

In adults, 1 small, single-blind, sham-controlled RCT conducted in Australia was identified. Thirty-three women (mean age, 45 years) with functional constipation were randomized to IFS (N=17) or sham treatment (N=16). The IFS was self-delivered by the participants in their homes for 1 hour per day for 6 weeks. The participants were trained by an unblinded study coordinator in the placement of the 4 electrodes as either crossed for active IFS or uncrossed for sham IFS. The primary outcome was the number of patients with ≥3 spontaneous bowel movements per week. Although active IFS significantly increased the primary outcome (53% versus 12%; P=0.02), there were no between-group differences on numerous other secondary outcomes, such as quality of life and the more clinically meaningful and guideline-recommended outcome of spontaneous complete bowel movement.

Irritable Bowel Disease
Review of Evidence
An RCT by Coban et al (2012) randomized 67 adults with irritable bowel syndrome to active or placebo IFS. Patients with functional dyspepsia were excluded. Patients received 4, 15-minute IFS sessions over 4 weeks. Fifty-eight (87%) of 67 patients completed the trial. One month after treatment, primary outcome measures did not differ significantly between treatment and control groups. For example, for abdominal discomfort, the response rate (i.e., >50% improvement) was 68% in the treatment group and 44% in the control group. For bloating and discomfort, the response rate was 48% in the treatment group and 46% in the placebo group. Using a VAS, 72% of the treatment group and 69% of the control group reported improvement in abdominal discomfort.

Dyspepsia
Review of Evidence
One RCT, by Koklu et al (2010) in Turkey, has evaluated IFS for treating dyspepsia. The trial randomized adults to active IFS (n=25) or sham treatment (n=25); patients were unaware of their treatment allocation. Patients received 12 treatment sessions over 4 weeks; each session lasted 15 minutes. Forty-four (88%) of 50 randomized patients completed the therapy session and follow-up questionnaires at 2 and 4 weeks. The trialists did not specify primary outcome variables; rather, they measured the frequency of 10 gastrointestinal symptoms. In an intention-to-treat analysis at 4 weeks, IFS was superior to placebo for the symptoms of early satiation and heartburn, but not for the other 8 symptoms. For example, before treatment, 16 (64%) of 25 patients in each group reported experiencing heartburn. At 4 weeks, 9 (36%) patients in the treatment group and 13 (52%) patients in the sham group reported heartburn (p=0.02). Among symptoms that did not differ between groups at follow-up, 24 (96%) of 25 patients in each group reported epigastric discomfort before treatment. In the intention-to-treat analysis, 5 (20%) of 25 patients in the treatment group and 6 (24%) of 25 patients in the placebo group reported epigastric discomfort.

Section Summary: Gastrointestinal Disorders
IFS has been tested as a treatment option for a variety of gastrointestinal conditions, with a small number of trials completed for each condition. Trial results were mixed, with some reporting benefit and others not. This body of evidence is inconclusive on whether IFS is an efficacious treatment for gastrointestinal conditions.

Poststroke Spasticity
Clinical Context and Therapy Purpose
The purpose of using IFS in patients who have poststroke spasticity is to provide a treatment option that is an alternative to or an improvement on existing therapies.
The question addressed in this evidence review is: Does the use of IFS improve health outcomes for those with poststroke spasticity?

The following PICO was used to select literature to inform this review.

**Population**
The population of interest is individuals with poststroke spasticity.

**Interventions**
The therapy being considered is IFS.

**Comparators**
The following therapy is currently being used: standard stroke rehabilitation.

**Outcomes**
The specific outcomes of interest are improved function and quality of life. Effect of IFS would be assessed 1 hour after a single treatment.

**Study Selection Criteria**
Methodologically credible studies were selected using the following principles:

- To assess efficacy outcomes, comparative controlled prospective trials were sought, with a preference for RCTs;
- In the absence of such trials, comparative observational studies were sought, with a preference for prospective studies.
- To assess long-term outcomes and adverse events, single-arm studies that capture longer periods of follow-up and/or larger populations were sought.
- Studies with duplicative or overlapping populations were excluded.

**Review of Evidence**

**Randomized Controlled Trials**
A single-blind RCT evaluating IFS as a treatment of poststroke spasticity was published by Suh et al (2014). 20 Forty-two inpatient stroke patients with plantar flexor spasticity were randomized to a single 60-minute session with IFS or placebo IFS treatment following 30 minutes of standard rehabilitation. In the placebo treatment, electrodes were attached; however, the current was not applied. Outcomes were measured immediately before and 1 hour after the intervention. The primary outcomes were gastrocnemius spasticity (measured on a 0 to 5 Modified Ashworth Scale) and 2 balance-related measures: the Functional Reach Test and the Berg Balance Scale. Also, gait speed was measured using a 10-meter walk test, and gait function was assessed with the Timed Up & Go Test. The IFS group performed significantly better than the placebo group on all outcomes (p<0.05 for each comparison). For example, the mean (standard deviation) difference in Modified Ashworth Scale score was 1.55 (0.76) in the IFS group and 0.40 (0.50) in the placebo group. A major limitation of the trial was that outcomes were only measured 1 hour after the intervention and no data were available on longer-term impacts of the intervention.

Additionally, an RCT comparing IFS (n=20) to electrical acupuncture (EAC) (n=20) in individuals with hemiplegic shoulder pain after stroke was published by Eslamian et al (2020). 21 The interventions were added to standard care and delivered twice a week for a total of 10 sessions. The primary outcome was reduction in pain intensity at 5-weeks compared to baseline as measured using a 10 cm Visual Analogue Scale (VASs). Results were mixed across outcomes. For example, rates of clinically significant improvement of at least 13 on the Shoulder Pain and Disability Index (SPADI) questionnaire were similar between groups (75% versus 65%). However, rate of clinically significant improvement in pain intensity (defined as a 1.4 points on the VAS at 5-weeks) was lower in the IFS group (35.0% versus 70.0%). Additionally, this study has several limitations, including lack of sham control group, very small sample size, short follow-up interval.
Section Summary: Poststroke Spasticity
Data from small RCTs with very short follow-up provides insufficient evidence on the impact of IFS on health outcomes in patients with post-stroke spasticity.

Summary of Evidence
For individuals who have musculoskeletal conditions who receive IFS, the evidence includes randomized controlled trials (RCTs) and meta-analyses. Relevant outcomes are symptoms, functional outcomes, quality of life, medication use, and treatment-related morbidity. Placebo-controlled randomized trial(s) have found that IFS when used to treat musculoskeletal pain and impaired function(s) does not significantly improve outcomes; additionally, a meta-analysis of placebo-controlled trials did not find a significant benefit of IFS for decreasing pain or improving function. The evidence is insufficient to determine that the technology results in an improvement in the net health outcome.

For individuals who have gastrointestinal disorders who receive IFS, the evidence includes RCTs. Relevant outcomes are symptoms, functional outcomes, quality of life, medication use, and treatment-related morbidity. IFS has been tested for a variety of gastrointestinal conditions, with a small number of trials completed for each condition. The results of the trials are mixed, with some reporting benefit and others not. This body of evidence is inconclusive on whether IFS is an efficacious treatment for gastrointestinal conditions. The evidence is insufficient to determine that the technology results in an improvement in the net health outcome.

For individuals who have poststroke spasticity who receive IFS, the evidence includes RCTs. Relevant outcomes are symptoms, functional outcomes, quality of life, and treatment-related morbidity. The RCTs had small sample sizes and very short follow-up (immediately posttreatment to 5 weeks). The evidence is insufficient to determine that the technology results in an improvement in the net health outcome.

Supplemental Information
The purpose of the following information is to provide reference material. Inclusion does not imply endorsement or alignment with the evidence review conclusions.

Practice Guidelines and Position Statements
Guidelines or position statements will be considered for inclusion in ‘Supplemental Information’ if they were issued by, or jointly by, a US professional society, an international society with US representation, or National Institute for Health and Care Excellence (NICE). Priority will be given to guidelines that are informed by a systematic review, include strength of evidence ratings, and include a description of management of conflict of interest.

American College of Occupational and Environmental Medicine
The American College of Occupational and Environmental Medicine published several relevant guidelines. For shoulder disorders, guidelines found the evidence on IFS to be insufficient and, depending on the specific disorder, either did not recommend IFS or were neutral on whether to recommend it.22 For low back disorders, guidelines found the evidence on IFS to be insufficient and did not recommend it.23 For knee disorders, guidelines recommended IFS for postoperative anterior cruciate ligament reconstruction, meniscectomy, and knee chondroplasty immediately postoperatively in the elderly.24 This was a level C recommendation.

American College of Physicians and the American Pain Society
In 2009, the clinical practice guidelines from the American College of Physicians and the American Pain Society concluded that there was insufficient evidence to recommend interferential current stimulation (IFS) for the treatment of low back pain.25 An update of these guidelines by the American College of Physicians (2017) confirmed the 2009 findings that there was insufficient evidence to determine the effectiveness of interferential current stimulation (IFS) for the treatment of low back pain.26
National Institute for Health and Care Excellence
In 2016, the National Institute for Health and Care Excellence had a guideline (NG59) on assessment and management of low back pain and sciatica in people aged 16 and over. The guideline states “Do not offer interferential therapy for managing low back pain with or without sciatica”.

U.S. Preventive Services Task Force Recommendations
Not applicable.

Medicare National Coverage
There is no national coverage determination. In the absence of a national coverage determination, coverage decisions are left to the discretion of local Medicare carriers.

Ongoing and Unpublished Clinical Trials
A search of ClinicalTrials.gov in May 2021 did not identify any ongoing or unpublished trials that would likely influence this review.

References


Documentation for Clinical Review

- No records required

Coding

This Policy relates only to the services or supplies described herein. Benefits may vary according to product design; therefore, contract language should be reviewed before applying the terms of the Policy.

The following codes are included below for informational purposes. Inclusion or exclusion of a code(s) does not constitute or imply member coverage or provider reimbursement policy. Policy Statements are intended to provide member coverage information and may include the use of some codes for clarity. The Policy Guidelines section may also provide additional information for how to interpret the Policy Statements and to provide coding guidance in some cases.

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<tr>
<th>Type</th>
<th>Code</th>
<th>Description</th>
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<td>CPT</td>
<td>97014</td>
<td>Application of a modality to 1 or more areas; electrical stimulation (unattended)</td>
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<td>97032</td>
<td>Application of a modality to 1 or more areas; electrical stimulation (manual), each 15 minutes</td>
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<td>Durable medical equipment, miscellaneous</td>
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<td>G0283</td>
<td>Electrical stimulation (unattended), to one or more areas for indication(s) other than wound care, as part of a therapy plan of care</td>
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<td>S8130</td>
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<tr>
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<td>S8131</td>
<td>Interferential current stimulator, 4 channel</td>
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Policy History

This section provides a chronological history of the activities, updates and changes that have occurred with this Medical Policy.

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<td>07/31/2015</td>
<td>Policy title change from Electrical Stimulation for Pain and Other Conditions</td>
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<td>BCBSA Medical Policy adoption</td>
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Definitions of Decision Determinations

**Medically Necessary:** Services that are Medically Necessary include only those which have been established as safe and effective, are furnished under generally accepted professional
standards to treat illness, injury or medical condition, and which, as determined by Blue Shield, are: (a) consistent with Blue Shield medical policy; (b) consistent with the symptoms or diagnosis; (c) not furnished primarily for the convenience of the patient, the attending Physician or other provider; (d) furnished at the most appropriate level which can be provided safely and effectively to the patient; and (e) not more costly than an alternative service or sequence of services at least as likely to produce equivalent therapeutic or diagnostic results as to the diagnosis or treatment of the Member's illness, injury, or disease.

**Investigational/Experimental**: A treatment, procedure, or drug is investigational when it has not been recognized as safe and effective for use in treating the particular condition in accordance with generally accepted professional medical standards. This includes services where approval by the federal or state governmental is required prior to use, but has not yet been granted.

**Split Evaluation**: Blue Shield of California/Blue Shield of California Life & Health Insurance Company (Blue Shield) policy review can result in a split evaluation, where a treatment, procedure, or drug will be considered to be investigational for certain indications or conditions, but will be deemed safe and effective for other indications or conditions, and therefore potentially medically necessary in those instances.

**Prior Authorization Requirements (as applicable to your plan)**

Within five days before the actual date of service, the provider must confirm with Blue Shield that the member's health plan coverage is still in effect. Blue Shield reserves the right to revoke an authorization prior to services being rendered based on cancellation of the member's eligibility. Final determination of benefits will be made after review of the claim for limitations or exclusions.

Questions regarding the applicability of this policy should be directed to the Prior Authorization Department at (800) 541-6652, or the Transplant Case Management Department at (800) 637-2066 ext. 3507708 or visit the provider portal at www.blueshieldca.com/provider.

Disclaimer: This medical policy is a guide in evaluating the medical necessity of a particular service or treatment. Blue Shield of California may consider published peer-reviewed scientific literature, national guidelines, and local standards of practice in developing its medical policy. Federal and state law, as well as contract language, including definitions and specific contract provisions/exclusions, take precedence over medical policy and must be considered first in determining covered services. Member contracts may differ in their benefits. Blue Shield reserves the right to review and update policies as appropriate.
Appendix A

<table>
<thead>
<tr>
<th>POLICY STATEMENT</th>
<th>(No changes)</th>
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<tr>
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<tr>
<td><strong>Policy Statement:</strong></td>
<td><strong>Policy Statement:</strong></td>
</tr>
<tr>
<td>Interferential current stimulation is considered <em>investigational.</em></td>
<td>Interferential current stimulation is considered <em>investigational.</em></td>
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