Policy Number	MED201.055
Policy Effective Date	11/01/2024

# Percutaneous Electrical Nerve Field Stimulation for Irritable Bowel Syndrome

<b>Table of Contents</b>
<u>Coverage</u>
Policy Guidelines
<u>Description</u>
<u>Rationale</u>
Coding
References
Policy History

Related Policies (if applicable)
MED205.032 Percutaneous Electrical Nerve
Stimulation, Percutaneous Neuromodulation
Therapy, and Restorative Neurostimulation
Therapy

# **Disclaimer**

#### Carefully check state regulations and/or the member contract.

Each benefit plan, summary plan description or contract defines which services are covered, which services are excluded, and which services are subject to dollar caps or other limitations, conditions or exclusions. Members and their providers have the responsibility for consulting the member's benefit plan, summary plan description or contract to determine if there are any exclusions or other benefit limitations applicable to this service or supply. If there is a discrepancy between a Medical Policy and a member's benefit plan, summary plan description or contract, the benefit plan, summary plan description or contract will govern.

# Coverage

Percutaneous electrical nerve field stimulation for abdominal pain in individuals with irritable bowel syndrome is considered is considered experimental, investigational and/or unproven.

# **Policy Guidelines**

None.

# **Description**

Percutaneous electrical nerve field stimulation involves the transmission of electrical impulses to cranial nerve bundles in the ear targeting brain areas involved in processing pain. In the case of patients with irritable bowel syndrome, nerves processing pain for the abdominal region are targeted.

### **Irritable Bowel Syndrome**

Irritable bowel syndrome (IBS) is estimated to affect 5% to 10% of the population globally, and accounts for between 2.4 and 3.5 million physician visits in the United States each year. (1) Up to two-thirds of patients with IBS are female, and it is most common in patients less than 50 years of age. The cause of IBS remains unknown, but is believed to be due to a dysfunction in gut-brain interaction. (2) Symptoms of IBS can include diarrhea, constipation, or both. Abdominal pain and bloating are also common IBS symptoms. These symptoms decrease patient quality of life and create a significant healthcare burden. (3) The American College of Gastroenterology (ACG) recommends that patients diagnosed with IBS are categorized by subtypes: IBS with constipation (IBS-C), IBS with diarrhea (IBS-D), IBS with mixed symptoms (IBS-M), or IBS without abnormal stools (IBS-U).

#### **Treatment**

First-line treatment of patients with IBS generally involves dietary changes. If dietary changes fail to achieve therapeutic goals, there are numerous pharmacotherapeutic options for patients with IBS. Pharmacologic treatment is based on the IBS subtype, and the predominance of either constipation or diarrhea (Table 1). (3-5) Notably, many IBS treatments are not Food and Drug Administration (FDA)-approved for children or adolescents. The American College of Gastroenterology recommends that gut-directed psychotherapy such as cognitive-behavior therapy and gut-directed hypnotherapy may be beneficial for global IBS symptoms. (3)

Table 1. Pharmacologic Treatment of Irritable Bowel Syndrome

IBS-D	IBS-C	Abdominal Pain
Antidiarrheal agents (e.g.,	Laxatives (e.g., polyethylene	Antispasmodics (e.g.,
loperamide)	glycol)	dicyclomine, hyoscyamine, peppermint oil)
Mu-opioid receptor agonist	Chloride channel activator	TCA
(eluxadoline for refractory	(lubiprostone)	
patients only)		
5-HT3 receptor antagonist	Guanylate cyclase agonists	SSRI
(alosetron or ondansetron)	(linaclotide or plecanatide)	
Antibiotic (rifaximin)	Sodium/hydrogen exchanger	
	3 (tenapanor)	

HT: hydroxytryptamine (serotonin); IBS-C: irritable bowel syndrome with constipation; IBS-D: irritable bowel syndrome with diarrhea; SSRI: selective serotonin reuptake inhibitor; TCA: tricyclic antidepressant.

# Percutaneous Electrical Nerve Field Stimulation

Because there are few pharmacologic treatments for children and adolescents with IBS, nonpharmacologic options are commonly explored. Percutaneous electrical nerve field stimulation (PENFS) is a potential treatment option for these patients. PENFS involves a non-implantable device which stimulates nerves remotely from the site of pain and has been studied for a variety of musculoskeletal or neuropathic pain conditions or for patients with opioid withdrawal. (6) The IB-Stim device is a type of PENFS that is intended for use only in

patients with IBS. The device is disposable and battery-operated. Key components of the device include a percutaneous electrical nerve field stimulator placed behind the ear which connects to a multi-wire electrode array consisting of 4 leads. The electrodes have thin needles and attach to the ear at points (preauricular, lobule and superior crus) where cranial nerve peripheral branches are located just beneath the skin. A pen light included with the device is used to visualize the neurovasculature features and aid in proper electrode placement.

## **Regulatory Status**

In 2019, the IB-Stim device (previously known as Neuro-Stim; Innovative Health Solutions, Inc.) was cleared for marketing by the U.S. Food and Drug Administration (FDA) through the de novo 513(f)(2) process (DEN180057). Both the IB-Stim and the similar NSS-2 BRIDGE device (Innovative Health Solutions, Inc.) are derivatives of the Electro Auricular Device (Navigant Consulting, Inc.). The IB-Stim device is indicated for patients 11 to 18 years of age with functional abdominal pain associated with IBS when combined with other IBS therapies. It is intended to be used for 120 hours per week up to 3 consecutive weeks. The First Relief v1 (DyAnsys, Inc.) device was deemed substantially equivalent to the IB-Stim device in 2020. FDA product code: QHH.

# Rationale

This medical policy was created with a search of the PubMed database. The most recent literature update was performed through June 12, 2024.

Medical policies assess the clinical evidence to determine whether the use of a technology improves the net health outcome. Broadly defined, health outcomes are 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 to 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 a technology, 2 domains are examined: the relevance and the quality and credibility. To be relevant, studies must represent 1 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. Randomized controlled trials 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.

# **Irritable Bowel Syndrome**

# Clinical Context and Therapy Purpose

The purpose of percutaneous electrical nerve field stimulation (PENFS) in individuals who have irritable bowel syndrome (IBS) is to provide a treatment option that is an alternative to or an improvement on existing therapies.

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

## **Populations**

The relevant population of interest is individuals with abdominal pain related to IBS.

#### Interventions

The therapy being considered is PENFS with the IB-Stim device.

# **Comparators**

The following therapies are currently being used to treat IBS: dietary modification, behavior modification, and pharmacotherapy.

#### Outcomes

The general outcomes of interest are pain, bowel function, and quality of life. Follow-up at 3 months is of interest to monitor outcomes.

#### 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.
- Consistent with a 'best available evidence approach,' within each category of study design, studies with larger sample sizes and longer durations were sought.
- Studies with duplicative or overlapping populations were excluded.

#### **Review of Evidence**

#### Randomized Controlled Trials

Kovacic et al. (2017) conducted an RCT comparing the Neuro-Stim PENFS device with a sham device in adolescent patients with abdominal pain-related functional gastrointestinal disorders including IBS (Table 2). (7) Patients 11 to 18 years of age with abdominal pain (pain score ≥3 on an 11-point scale) occurring at least twice weekly for at least 2 months were included. The devices were worn for 5 days each week for 4 weeks. Baseline medications were continued with the exception of antispasmodics which were not allowed during the study period. Enrolled patients were primarily female (91%) and White (90%). Pain, as measured on the Pain

Frequency-Severity-Duration (PFSD), was the primary outcome. The PFSD scale incorporates several aspects of the pain experience and is generally calculated over a 14-day period but was modified as a weekly score in this trial with a high composite score of 70. Both "worst pain" and median PFSD composite scores were better with PENFS than placebo (Table 3). The Symptom Response Scale (-7 to +7 [with negative scores as worse and positive scores as better]) was used to assess the overall symptoms. Although the authors reported statistically significantly improved scores with the Neuro-Stim device at 3 weeks (Table 3), numerical differences between groups were small. Longer-term pain scores obtained at a median of 9.2 weeks after treatment remained improved from baseline in the active treatment group with a decrease of composite PFSD scores of -8.4 compared with 0.0 in the sham group. Adverse events including ear discomfort and adhesive allergy were similar between groups. The study is limited by the small sample size, the heterogeneous population of gastrointestinal disorders, lack of bowel habit measurement, and short duration of follow-up. Krasaelap et al. (2020) evaluated a subgroup of 50 patients with IBS from the Kovacic et al. (2017) RCT (Table 2). (8) At 3 weeks there were more responders with the active treatment (response defined as ≥30% reduction in worst abdominal pain) than with the sham device (Table 3). At the extended follow-up (8-12 weeks), the percentage of responders was similar between groups (32% vs. 18%; p=.33).

**Table 2. Summary of Key RCT Characteristics** 

Study	Countries	Sites	Dates	Participants	Interventions	
					Active	Comparator
Kovacic et al.	US	1	2015-	Adolescents (11-18	Neuro-Stim	Sham
(2017) (7)			2016	years of age) with	(n=60)	(n=55)
				abdominal pain		
				related to a		
				functional GI disorder		
Krasaelap et	US	1	2015-	Adolescents (11-18	Neuro-Stim	Sham
al. (2020)			2016	years of age) with	(n=27)	(n=23)
(8) <sup>a</sup>				abdominal pain		
				related to IBS		

GI: gastrointestinal; IBS, irritable bowel syndrome; RCT: randomized controlled trial.

**Table 3. Summary of Key RCT Results** 

Study	Worst Pain (Week 3)	PFSD Composite Score (Week 3)	Worst Pain Decrease of ≥30% from Baseline to Week 3	Average Pain Decrease of ≥30% from Baseline to Week 3	SRS (Week 3)
Kovacic et al. (2017) (7)	N=104	N=104	N=93	N=93	N=104
PENFS	Median 5.0 (IQR, 4.0-7.0)	Median 8.4 (IQR, 3.2- 16.2)	29 (60%)	28 (58%)	Median 3.0 (IQR, 1.0-4.8)

<sup>&</sup>lt;sup>a</sup>A subgroup analysis of Kovacic et al. (2017).

Sham	Median 7.0 (IQR, 5.0-9.0)	Median 15.2 (IQR, 4.4- 36.8)	10 (22%)	13 (29%)	Median 1.0 (IQR, 0.0-2.3)
LSM (95% CI); p-value	2.15 (1.37- 2.93); <.0001	11.48 (6.63- 16.32); <.0001	NR; .00031	NR; p=.007	NR; .0003
Krasaelap et al. (2020) (8)	N=50	N=50	N=50		N=50
PENFS	Median 5.0 (IQR, 4.0-7.0)	Median 7.5 (IQR, 3.6- 14.4)	16 (59%)		Median 3.0 (IQR, 2-4)
Sham	Median 7.0 (IQR, 5.0-9.0)	Median 14.4 (IQR, 4.5- 39.2)	6 (26%)		Median 0 (IQR, 0-2)
LSM (95% CI); p-value	NR; .0074	NR; .026	NR; .024		NR; .003
NNT			3	_	

CI: confidence interval; IQR, interquartile range; LSM: least squares mean; NNT: number needed to treat; NR: not reported; PENFS: percutaneous electrical nerve field stimulation; PFSD: Pain Frequency-Severity-Duration; RCT: randomized controlled trial; SRS: symptom response scale.

The purpose of the study limitations tables (see Tables 4 and 5) is to display notable limitations identified in each study. This information is synthesized as a summary of the body of evidence following each table and provides the conclusions on the sufficiency of evidence supporting the position statement. Limitations are only reported from the Kovacic et al. (2017) study as those in the subgroup analysis by Krasaelap et al. (2020) mirror the parent study.

**Table 4. Study Relevance Limitations** 

Study	Population <sup>a</sup>	Intervention <sup>b</sup>	Comparator <sup>c</sup>	Outcomesd	Duration of Follow-up <sup>e</sup>
Kovacic et al.	4. Largely			1. No bowel	1,2. Median
(2017) (7)	White,			habit	follow-up
	female			outcomes	duration of
	population			included; 4.	9.2 weeks
				Use of	
				modified	
				PFSD for pain	
				outcomes	

PFSD: Pain Frequency-Severity-Duration.

The study limitations stated in this table are those notable in the current literature review; this is not a comprehensive gaps assessment.

<sup>&</sup>lt;sup>a</sup> Population key: 1. Intended use population unclear; 2. Study population is unclear; 3. Study population not representative of intended use; 4, Enrolled populations do not reflect relevant diversity; 5. Other. <sup>b</sup> Intervention key: 1. Not clearly defined; 2. Version used unclear; 3. Delivery not similar intensity as

comparator; 4. Not the intervention of interest (e.g., proposed as an adjunct but not tested as such); 5: Other.

**Table 5. Study Design and Conduct Limitations** 

Study	Allocationa	Blindingb	Selective	Data	Power <sup>e</sup>	Statistical <sup>f</sup>
			Reporting <sup>c</sup>	Completeness <sup>d</sup>		
Kovacic et				6. Modified		
al. (2017)				intention-to-		
(7)				treat analysis		
				excluding		
				patients with <1		
				week of data or		
				diagnosis of		
				organic disease		
				after enrollment		

The study limitations stated in this table are those notable in the current literature review; this is not a comprehensive gaps assessment.

# Section Summary: Irritable Bowel Syndrome

One RCT was identified evaluating the use of PENFS for patients with abdominal pain-related functional gastrointestinal disorders including IBS. Despite finding improved pain and symptoms at the end of the treatment period (3 weeks) with the active device compared with sham, the differences between groups by 12 weeks were minimal. A subgroup analysis limited to patients with IBS (N=50) had similar results. The study is limited by its small sample size, heterogeneous

<sup>&</sup>lt;sup>c</sup> Comparator key: 1. Not clearly defined; 2. Not standard or optimal; 3. Delivery not similar intensity as intervention; 4. Not delivered effectively; 5. Other.

<sup>&</sup>lt;sup>d</sup> Outcomes key: 1. Key health outcomes not addressed; 2. Physiologic measures, not validated surrogates; 3. Incomplete reporting of harms; 4. Not established and validated measurements; 5. Clinically significant difference not prespecified; 6. Clinically significant difference not supported; 7. Other.

e Follow-Up key: 1. Not sufficient duration for benefit; 2. Not sufficient duration for harms; 3. Other.

<sup>&</sup>lt;sup>a</sup> Allocation key: 1. Participants not randomly allocated; 2. Allocation not concealed; 3. Allocation concealment unclear; 4. Inadequate control for selection bias; 5. Other.

<sup>&</sup>lt;sup>b</sup> Blinding key: 1. Participants or study staff not blinded; 2. Outcome assessors not blinded; 3. Outcome assessed by treating physician; 4. Other.

<sup>&</sup>lt;sup>c</sup> Selective Reporting key: 1. Not registered; 2. Evidence of selective reporting; 3. Evidence of selective publication; 4. Other.

<sup>&</sup>lt;sup>d</sup> Data Completeness key: 1. High loss to follow-up or missing data; 2. Inadequate handling of missing data; 3. High number of crossovers; 4. Inadequate handling of crossovers; 5. Inappropriate exclusions; 6. Not intent to treat analysis (per protocol for noninferiority trials); 7. Other.

<sup>&</sup>lt;sup>e</sup> Power key: 1. Power calculations not reported; 2. Power not calculated for primary outcome; 3. Power not based on clinically important difference; 4. Other.

fStatistical key: 1. Analysis is not appropriate for outcome type: (a) continuous; (b) binary; (c) time to event; 2. Analysis is not appropriate for multiple observations per patient; 3. Confidence intervals and/or p values not reported; 4. Comparative treatment effects not calculated; 5. Other.

population of gastrointestinal disorders, lack of bowel habit measurement, and the short duration of follow-up.

#### UpToDate

An UpToDate article on management of functional abdominal pain (FAP) in children and adolescents characterized the use of PENFS for relief of FAP in adolescents with IBS as "promising" but stated that additional confirmatory studies are needed to confirm results, determine the optimal setting and duration of treatment, and determine the optimal target population, before it can be routinely recommended. (9)

# **Summary of Evidence**

For individuals with irritable bowel syndrome (IBS) who receive percutaneous electrical nerve field stimulation (PENFS), the evidence includes a subgroup analysis of a single randomized controlled trial (RCT). Relevant outcomes are symptoms, functional outcomes, quality of life, and treatment-related morbidity. The RCT (N=115) included a heterogeneous population of adolescent patients aged 11 to 18 years with pain-related functional gastrointestinal disorders. Treatment was administered for 3 weeks, and reductions in pain were observed with the active device compared with a sham PENFS device at end of treatment and end of follow-up (maximum of 12 weeks). The subgroup of patients with IBS also had improved pain at the end of treatment with the active device compared with the sham device. However, the trial is limited by its small sample size, heterogeneous population of gastrointestinal disorders, lack of bowel habit measurement, and the short duration of follow-up. The evidence is insufficient to determine that the technology results in an improvement in the net health outcome.

#### **Practice Guidelines and Position Statements**

## American College of Gastroenterology

The American College of Gastroenterology (ACG) updated their recommendations for irritable bowel syndrome (IBS) management in 2021. (3) The ACG recommendations do not include PENFS.

#### The American Gastroenterological Association

The American Gastroenterological Association (AGA) updated guidelines for both IBS with constipation and IBS with diarrhea in 2022. (4, 5) Neither of these guidelines include recommendations for PENES.

# **Ongoing and Unpublished Clinical Trials**

Some currently ongoing and unpublished trials that might influence this policy are listed in Table 6.

#### **Table 6. Summary of Key Trials**

NCT Number	Trial Name	Planned Enrollment	Completion Date
Ongoing			

NCT04428619	Neuromodulation With Percutaneous Electrical	54	Nov 2024
	Nerve Field Stimulation for Adults		
	With Irritable Bowel Syndrome: A Randomized,		
	Double-Blind, Sham-Controlled Pilot Study		

NCT: national clinical trial.

# Coding

Procedure codes on Medical Policy documents are included **only** as a general reference tool for each policy. **They may not be all-inclusive.** 

The presence or absence of procedure, service, supply, or device codes in a Medical Policy document has no relevance for determination of benefit coverage for members or reimbursement for providers. **Only the written coverage position in a Medical Policy should be used for such determinations.** 

Benefit coverage determinations based on written Medical Policy coverage positions must include review of the member's benefit contract or Summary Plan Description (SPD) for defined coverage vs. non-coverage, benefit exclusions, and benefit limitations such as dollar or duration caps.

CPT Codes	0720T
<b>HCPCS Codes</b>	None

<sup>\*</sup>Current Procedural Terminology (CPT®) ©2023 American Medical Association: Chicago, IL.

## References

- 1. IBS Facts and Statistics. International Foundation for Gastrointestinal Disorders. Available at <a href="https://aboutibs.org">https://aboutibs.org</a> (accessed March 7, 2023).
- 2. Definition & Facts for Irritable Bowel Syndrome. National Institute of Diabetes and Digestive and Kidney Diseases. Updated November 2017. Available at <a href="https://www.niddk.nih.gov">https://www.niddk.nih.gov</a> (accessed March 7, 2023).
- 3. Lacy BE, Pimentel M, Brenner DM, et al. ACG Clinical Guideline: Management of Irritable Bowel Syndrome. Am J Gastroenterol. Jan 01 2021; 116(1):17-44. PMID 33315591
- Lembo A, Sultan S, Chang L, et al. AGA Clinical Practice Guideline on the Pharmacological Management of Irritable Bowel Syndrome With Diarrhea. Gastroenterology. Jul 2022; 163(1):137-151. PMID 35738725
- 5. Chang L, Sultan S, Lembo A, et al. AGA Clinical Practice Guideline on the Pharmacological Management of Irritable Bowel Syndrome With Constipation. Gastroenterology. Jul 2022; 163(1):118-136. PMID 35738724
- 6. IB-Stim. Available at <a href="https://ibstim.com">https://ibstim.com</a> (accessed March 14, 2023).
- 7. Kovacic K, Hainsworth K, Sood M, et al. Neurostimulation for abdominal pain-related functional gastrointestinal disorders in adolescents: a randomised, double-blind, sham-controlled trial. Lancet Gastroenterol Hepatol. Oct 2017; 2(10):727-737. PMID 28826627
- 8. Krasaelap A, Sood MR, Li BUK, et al. Efficacy of Auricular Neurostimulation in Adolescents With Irritable Bowel Syndrome in a Randomized, Double-Blind Trial. Clin Gastroenterol Hepatol. Aug 2020; 18(9):1987-1994.e2. PMID 31622740

9. Chako MR and Chiou EH. Functional abdominal pain in children and adolescents: Management in primary care. In: UpToDate, Hoppin AG (Ed), UpToDate, Waltham, MA. Available at <a href="https://www.uptodate.com">https://www.uptodate.com</a> (accessed June 12, 2024).

## Additional Literature

- 10. Roberts A, Sithole A, Sedghi M, et al. Minimal adverse effects profile following implantation of periauricular percutaneous electrical nerve field stimulators: a retrospective cohort study. Med Devices (Auckl). Nov 03 2016; 9:389-393. PMID 27843360
- 11. Karrento K, Zhang L, Conley W, et al. Percutaneous electrical nerve field stimulation improves comorbidities in children with cyclic vomiting syndrome. Front Pain Res (Lausanne). Jun 14 2023; 4:1203541. PMID 37389229
- 12. Shah E, Eswaran S, Harer K, et al. Percutaneous electrical nerve field stimulation for adolescents with irritable bowel syndrome: Cost-benefit and cost-minimization analysis. J Pediatr Gastroenterol Nutr. Mar 2024; 78(3):608-613. PMID 38284690
- 13. Santucci NR, King C, El-Chammas KI, et al. Effect of percutaneous electrical nerve field stimulation on mechanosensitivity, sleep, and psychological comorbidities in adolescents with functional abdominal pain disorders. Neurogastroenterol Motil. Aug 2022; 34(8):e14358. PMID 35293081
- 14. Santucci NR, Beigarten AJ, Khalid F, et al. Percutaneous Electrical Nerve Field Stimulation in Children and Adolescents With Functional Dyspepsia-Integrating a Behavioral Intervention. Neuromodulation. Feb 2024; 27(2):372-381. PMID 37589640
- 15. Miranda A. Opinion: Percutaneous electrical nerve field stimulation compared to standard medical therapy in adolescents with functional abdominal pain disorders. Front Pai Res (Lausanne). Jan 11 2024; 5:1279946. PMID 38299109
- 16. Bora G, Atkinson SN, Pan A, et al. Impact of auricular percutaneous electrical nerve field stimulation on gut microbiome in adolescents with irritable bowel syndrome: A pilot study. J Dig Dis. May 2023; 24(5):348-358. PMID 37448237
- 17. Chogle A, Visnagra K, Janchoi J, et al. Prospective study of the effect of auricular percutaneous electrical nerve field stimulation on quality of life in children with pain related disorders of gut-brain interaction. Front Pain Res (Lausanne). 2023; 4:1223932. PMID 37745801
- 18. Castillo DF, Denson LA, Haslam DB, et al. The microbiome in adolescents with irritable bowel syndrome and changes with percutaneous electrical nerve field stimulation.

  Neurogastroenterol Motil. Jul 2023; 35(7):e14573. PMID 37092330
- 19. Kovacic K, Kolacz J, Lewis GF, et al. Impaired Vagal Efficiency Predicts Auricular Neurostimulation Response in Adolescent Functional Abdominal Pain Disorders. Am J Gastroenterol. Sep 2020; 115(9):1534-1538. PMID 32732620
- 20. Santucci NR, Sahay R, El-Chamas KI, et al. Percutaneous electrical nerve field stimulation compared to standard medical therapy in adolescents with functional abdominal pain disorders. Front Pain Res (Lausanne). Sep 19 2023; 4:1251932. PMID 37795388

# **Centers for Medicare and Medicaid Services (CMS)**

The information contained in this section is for informational purposes only. HCSC makes no representation as to the accuracy of this information. It is not to be used for claims adjudication for HCSC Plans.

The Centers for Medicare and Medicaid Services (CMS) does not have a national Medicare coverage position. Coverage may be subject to local carrier discretion.

A national coverage position for Medicare may have been developed since this medical policy document was written. See Medicare's National Coverage at <a href="https://www.cms.hhs.gov">https://www.cms.hhs.gov</a>.

Policy History/Revision	
Date	Description of Change
11/01/2024	New medical document. Percutaneous electrical nerve field stimulation for
	abdominal pain in individuals with irritable bowel syndrome is considered is
	considered experimental, investigational and/or unproven.